

RESHEF TENNE

Materials Scientist, Physical and Inorganic Chemist
The first Drake Family Professor of Nanotechnology (Emeritus)
The first director of the Helen and Martin Kimmel Center for Nanoscale Science (Emeritus)

Personal Details

Tel: (office): +972-8-934-2394; Mobile: +972-54-624-4242; e-mail: reshef.tenne@weizmann.ac.il
Date & Place of Birth: 2.9.1944, Kibbutz Usha (Israel); Widower; 3 children, 2 grandchildren; remarried
Private address: Harav Hertzog St. 14, Apt. 8, Rehovot, Israel 7631045; Mobile +972-54-6244242; office 08-9342394
Nationality: Israeli; Passport No. 41036536
Languages: Hebrew (mother tongue); English (spoken and written); French (spoken)
Webpage: <http://www.weizmann.ac.il/materials/tenne/>

Specialization

Nanomaterials Science; Solid State Chemistry; Physical Chemistry

Education

B.Sc. in Chemistry and Physics, (1969), Hebrew University, Jerusalem
M.Sc. in Physical Chemistry, (1971), Hebrew University, Jerusalem (Prof. G. Stein, supervisor)
Ph.D. in Theoretical Chemistry (1976), Hebrew University, Jerusalem (Prof. A. Ben-Naim, supervisor)
Post-Doctorate in Theoretical Chemistry (1978), Battelle Institute, Geneva (Dr. E. Bergmann, supervisor)

Positions

1979- Scientist, Electrochemistry Group, Battelle Institute, Geneva
1979- Staff Scientist, the Weizmann Institute of Science, Rehovot
1981- Senior Scientist, the Weizmann Institute of Science, Rehovot
1985- Assoc. Professor, the Weizmann Institute of Science, Rehovot
1986- Visiting Professor (Spring), Solid State Institute, Technion, Haifa
1988- Visiting Professor, Pierre et Marie Curie University, Paris, France
1989- Visiting Professor (MRT Fellow), Solid State Physics Laboratory, CNRS, Meudon, France (Sabbatical)
1991- Visiting Professor (JSPS fellow), The University of Tokyo, Japan
1994- DAAD fellow, Hahn-Meitner Institute, Berlin, Germany
1995- Professor, the Weizmann Institute of Science
2000-2007 Head, Department of Materials and Interfaces, Weizmann Institute of science, Rehovot
2000-2007 Director of the G.M.J. Minerva Center for Supramolecular Architectures, Rehovot
2003-2014 Director of the Helen and Martin Kimmel Center for Nanoscale Science, Rehovot
2014- Emeritus Professor, Weizmann Institute of Science, Rehovot
2017- Research (Emeritus) Professor, Weizmann Institute of Science, Rehovot
2021- Visiting scholar, Bar-Ilan University, Ramat-Gan

Scientific Honors, Awards and Recognitions

1976-1978- *International Battelle Memorial Fellowship*, Geneva
1983- *Helen & Milton A. Kimmelman Career Development Chair* (1983-1986).
1985- *The Mordechai (Moma) Glickson Annual Research Prize* of the Weizmann Institute, Rehovot
1996- *Fellow of the Israel Vacuum Society*, Tel-Aviv
2002- *Fellow of the World Technology Network*, San Francisco
2004- *The Drake Family Chair in Nanotechnology*, Rehovot
2005- *The Kolthoff Prize in Chemistry of the Technion*, Haifa
2005- *Materials Research Society Medal*, Boston
2005- *Rafael Scientific Research Excellence Prize* of the Israel Vacuum Society, Tel-Aviv
2006- *Landau Prize* of Mifal Hapais (Israel Lottery) in Nanotechnology, Tel-Aviv
2008- *Fellow of the Materials Research Society* (inaugural class of fellows), Boston
2008- *The Israel Chemical Society Excellence Prize*, Tel-Aviv
2011- *Fellow of the Royal Society of Chemistry (FRSC)*, UK
2011- *Member, Israel Academy of Sciences and Humanities*, Jerusalem

2011- *ChinaNano 2011 Plenary Speaker Award*, Beijing, China
 2012- *The C.N.R. Rao Award Lecture* in the 14th Chem. Res. Soc. India, Trivandrum, India
 2012- *Member, Academia Europaea*- The Academy of Europe, London
 2014- *Best science paper award* of the year- Inst. Civil Eng., UK
 2015- *University Honorary Chair Professor* of Taiwan Technical Univ. Sci. & Tech., Taipei
 2015- *Gold Medal* of the Israel Chemical Society, Tel-Aviv
 2016- *Rothschild Prize* in Physics and Chemistry, given by the “Speaker” of the Israeli Parliament (Knesset), Jerusalem
 2016- *Plenary Speaker Prize NanoTr12*, the 12th International Nanoscience and Nanotechnology Conference, Gebze Technical University, Turkey
 2017- *Honorary Fellow* of the Israel Society for Microscopy (ISM), Tel-Aviv
 2019- *International Union of Vacuum Science, Techniques and Applications (IUVSTA) 2019 Technology Prize*, Malmo, Sweden
 2020- *EMET Prize* for Art, Science and Culture endowed by Israel Prime Minister, Jerusalem
 2021- *Member, Academia Scientiarum et Artium Europaea (European Academy of Science and Arts)*, Salzburg, Austria
 2022- *The 2023 ACS Award in Chemistry of Materials*, Indianapolis, US
 2023- the *Arthur von Hippel Award* of the Materials Research Society, Boston, US
 2026- *The Israel Prize in Chemistry and Chemical Engineering*, Jerusalem

Special lectures and recognitions

2009, 2010- Special Lecture Series hosted by the German Chemical Society (DGCh) in Dresden, Stuttgart Darmstadt, Karlsruhe
 2009- *INNT01*, 1st Workshop on Inorganic Nanotubes, San Sebastian, September- A Workshop in Honor of Professor Reshef Tenne’s 65th Birthday (http://dipc.ehu.es/ws_presentacion.php?id=40)
 2011- *The Folman Lecture*, Technion, February, Haifa
 2012- *Adams Seminar*, Isr. Academy of Sci. & Humanities, May, Jerusalem
 2013- *Esteemed Keynote Speaker*, 6th Bangalore INDIA NANO 2013
 2013- Seminar series in Korean Universities hosted by the Korean Academy of Sciences, October, Korea
 2015- Seminar series hosted by the Academia Sinica, November, Taiwan (http://www.intechopen.com/journals/nanomaterials_and_nanotechnology)
 2016- *Honorable Guest and Keynote Lecturer*, Materials Chemistry 2016 Conference, Valencia, March (<http://materialschemistry.conferenceseries.com/>)
 2018- *8th Annual Chemistry Lecture*- Jawaharlal Nehru Centre for Advanced Scientific Res., March, Jakkur, India
 2018- *Inaugural Diamond Jubilee Chemistry Lecture*, IIT Bombay, March, Mumbai, India
 2018- *Nano-Day 2018 Keynote Speaker*, UNAM, Bilkent University, May, Ankara, Turkey
 2021- "נוטכנולוגיה", "בכור המהפכה המדעית", הרצאה במסגרת סדרת ההרצאות "ננוטכנולוגיה", Lecture in memory of Prof. Aharon Katzir, May (webinar with 1500 spectators)
 2021-Invited talk in the *Forum of Distinguished Scholars* in Wuhan University of Technology, September (webinar)
 2022- Member of the Int. Adv. Board for the Bilkent University National Nanotechnology Research Center (UNAM) of Turkey, Ankara
 2025- Colloquium in *Cambridge Strategic Research Initiative (SRI) on Quantum and Advanced Materials for a Sustainable Society (QAMSS)*, August, Cambridge University, UK

Technological recognitions

2004 -“ApNano Materials” selected by the Innovation World magazine as one of the top 21 companies of the 21st century
 2004 - “ApNano Materials” selected by the *Red Herring* as one of the 100 most innovative companies, New York
 2006 - “NanoLub” is the winner of the second annual *Nanotech Briefs* magazine Nano 50 contest, Boston
 2006 - “ApNano Materials” elected as Corporate Member of the World Technology Network, San Francisco
 2010 - “Ap-Nano Materials” selected for the “The Automotive Excellence (NoAE) Innovation-Competition Prize top 30”, Würzburg Automotive Summit, Germany, Sponsored by The German Federal Ministry for Economics and Technology
 2010- “NanoMaterials” was awarded “Nanotechnology Company of the Year Award 2010” by the Israel Ministry of Industry & Trade, Office of the Chief Scientist and MATIMOP (Israeli Industry Center for R&D), Tel-Aviv

Students’ recognitions (since 2020)

2023- *Best presentation prize* to Dr. Vojtech Kundrat, 2D Materials symposium, IMC20- 20th Intl. Microscopy Congress, September 2023, Busan
 2024- Dr. M.B. Sreedhara, *WSoS (formerly FGS) Postdoc Prize*

2025- Dr. V. Kundra, *Sir Charles Clore Fellowship of the WSoS (formerly FGS) Postdoc Prize*

Funding: ERC-AdG (2008- inaugural cycle): European Research Council: Advanced Research Grants -1.62 M Euro over 5 years; ERC-PoC (2012) grant- 150k E

Monographs

"Inorganic Nanomaterials from Nanotubes to Fullerene-Like Nanoparticles: Fundamental and Applications", R. Tenne, World Scientific, Singapore (2012).

"Inorganic Fullerene-like Nanoparticles and Inorganic Nanotubes", Eds. R. Tenne and A.N. Enyashin, MDPI publications, Basel (2015). ISBN 978-03842-149-4(8)

Other experiences

1969- Teaching at both University and High Schools

1978 and 1979- Organizer of two International Workshops on the theory and applications of liquid and amorphous Metals, Battelle, Geneva

1992-1996- Co-Chair of the annual symposia of the *Israel Vacuum Society*

1986- Consultant: *Solar Energy Applications project* Battelle, Geneva

1981- Consultant- *Photoelectrochemical Applications*, Dornier System GmbH

1990-1992- Member of Teaching Board of Chemistry, Weizmann Institute of Science

1993-1996 – Member and Chair of Services Committee, Weizmann Institute of Science

Member-Advisory Committee for the following research centers:

1991 and 1994- *Interfaces and catalysis*, U. of Laval, under auspices of FCAR, Quebec

1997-*Institute of Photonics* Prof. M. Graetzel (EPFL,) on behalf of the Swiss Ministry of Education

1998-*Center of Photoelectroenergetics of Organic Materials* headed by Prof. Y. Nakato, U. of Osaka on behalf of the Japanese Ministry of Education

1990-1992- Secretary of the *Israel Vacuum Society*

1992-1994- President of the *Israel Vacuum Society*

- Expert Reviewer for the following Journals and Organizations:

Nature, Science, Nature Materials, J. Am. Chem. Soc., PNAS, Nature Comm., Phys. Rev. Lett., Angew. Chem. Intl. Ed., J. Phys. Chem., Adv. Mater., J. Mater. Res., J. Electrochem. Soc., J. Electroanal. Chem., J. Solid State Chem., Indian J. Tech., J. Appl. Electrochem., Appl. Surf. Science, Acta Materialia, Chem. Phys. Chem., Nano Lett., ACS- Nano, Eur. J. Inorg. Chem., NSF, DOE, PRF-ACS, EU R&D Program (ERC), NEDO (Japan), ERC, Swiss National Sci. Found.

- Member of the following scientific boards:

1994- *Eshkol* foundation

1994-1997- France-Israel (*AFIRST*)

1995-1997-India-Israel Foundation

1997-Japan-Israel Foundation

2006-Legacy Heritage Fund of the Israeli Science Foundation

- Reviewer and member of promotion committee for the following faculties:

1990 and 1993-*Columbia University*, School of Physics, New York

1995-*University of Washington*, Dept. of Material Science and Engineering, Seattle

1999-*University of Oxford*, Dept of Materials Science, UK

1994 and 2001- the *Hebrew University*: 1995-1997-*Technion*; 1997 and 2010-*Ben-Gurion University*;

2004-*Bar-Ilan University*

1995 and 2008- Visitor of the American Airforce Labs under the program *Window to Science*

- Recipient of 2 International NEDO projects from the government of Japan:

1992-1995 NEDO grant with Prof. A. Fujishima, University of Tokyo, and

1995-1998 NEDO grant with Dr. S. Iijima, NEC

- Committees at the Weizmann Institute of Science:

1997-1998 Vice-chair of the Scientific Council of Professors of the Weizmann Institute; Member of the Steering Committee of the Scientific Council; Chair of the Research Associates' Promotion Committee; Member of the Research Associates' Tenure Committee

1997-1999- Founding Chair of the Materials Committee of the Israel Science Foundation

1997- Founder and Chair, the Lev Margulis Award Committee of the Israel Microscopy Society

1997- Member of Israeli Ministry of Science search committee for scientific councilors to embassies

- Israel Chemical Society contributions:

1997-2003- Israel Chemical Society (ICS) Board member, Prize Committee member, and Treasurer

1997- Member of ICS committee for the young faculty scientist excellence award; 1998-Chair of the internet site selection committee; and 1999- Founder of the committee for establishment of ICS awards

1998-2000- Member of the Research Board of Advisors, Am. Biog. Inst.
 1999 and 2000- Member of the board for the Alon fellowship program, VATAT
 1999- Acting Chair of the Department of Materials and Interfaces, Weizmann Institute, Spring
 1999- Member, Committee for selection of internal research awards, Weizmann Institute
 1999- Member, Committee for the Canada-Israel joint R&D program, Ministry of Science and Technology
 2000-2002- Chairperson, Travel committee of the Weizmann Institute of Science
 2000-2002- Member, Promotion Committee of the Faculty of Chemistry, Weizmann Institute
 2000-2007- Member, Academic Board; Promotion Comm. and Honorary Deg. Comm., Holon Institute of Technology
 2000-2007- Head, Department of Materials and Interfaces, Weizmann Institute
 2001- Member, Large Equipment Committee, Israel Science Foundation
 2001- Board of Reviewers, NEDO, Japan
 2001-2007- Director, G.M.J. Schmidt Minerva Center for Supramolecular Architectures
 2001- Member, Award Committee, Israel Vacuum Society
 2002- Acting President, Israel Chemical Society
 2002- Co-founder of "ApNano Materials, Inc" ("NanoMaterials, Ltd" - <http://www.apnano.com>) purchased in 2013 by N.I.S. (www.nisusacorp.com)
 2003- 2014- Founding director, the Helen and Martin Kimmel Center for Nanoscale Sciences
 2002-06- Co-Founder and Member of the Steering and the Selection Committees for the Intl. H. Gerischer Prize of the Electrochemical Society
 2003- Member, Board of the Israel Society for Microscopy
 2004- Member, Nanotechnology Initiative of the Israeli Ministry of Agriculture
 2004- Reviewer for the Third World Academy of Sciences
 2004- Member, Advisory Committee to the Israel Nanotechnology Initiative for Nano-Bio
 2004- Member, British Standard Panel for Nanotechnology of the BSI and 2005- Publicly Available Standard (PAS71)
 2004- Chairman, Review Comm. for the joint NSF (US)-Isr. Ministry Sci. Tech. research program
 2005-2010 Member, Advisory Board of the Faculty of Materials Engineering, Technion
 2007 and 2008- Member, Selection Committee for the Harvey Prize
 2008-2014- Member of the Board of Directors and General Assembly of the Landau Prize Foundation
 2007-2008- Member, Scientific Committee on Advanced Materials, Institute for Science and Technology, Austria
 2008- Member, Board of Reviewers for the Romanian Natl. Research Council (NURC), Bucharest
 2009- Member, Board of Reviewers, Swiss Natl. Sci. Found. for two programs: "Smart materials" and Centers of Excellence (NCCR)
 2009 and 2010- Co-convener, Faculty of Chemistry Colloquium, Weizmann Institute
 2009- Founding Member of the Board of NanoIsrael Biannual Conference Series (2009-2014)
 2010- Member, Board of Reviewers, Israel Science Foundation
 2011- Member of the Dostrovsky Prize Board (2010-2016)
 2012- Member, Landau Prize Committee of Mifal Hapais- Israel Lottery (2012-2016)
 2008-2013- Member of the Intl. Adv. Board, TMCN annual conference series; Since 2013- *Flatlands, beyond Graphene* conference series.
 2009-2013- Founding member and member of the COST action-COINAPO network
 2012-present, Member, Scientific Council and Chairperson of the Promotion Committee, Holon Inst. Tech.
 2012- Chairperson of the board, the Gerischer Prize of the Electrochemical Society
 2012- Founder of the Isr. Chem. Soc. Lea Tenne Family Prize in Nanoscale Science
 2014- Chairperson, Comm. of the Isr. Academy of Sci. for monitoring the "*State of Science in Israel 2013 report* to the Knesset and government, delivered April 2015
 2014- TTRF Foundation (Japan) grant with Prof. L. Rapoport (HIT)
 2015- Chair of the Israel Academy of Sciences Committee responsible for the 2nd triennial report on the *State of Science in Israel 2016* to the government- delivered November 2016
 2015- Chair of the selection committee for the Landau Prize in *Nanotechnology-Science and Applications*
 2016- Member, Consulting Research Committee for the Head of the Planning and Budgeting Committee of the Higher Education (VATAT)
 2016- Member, International Advisory Board. Indian Association for Nanoscience and Nanotechnology (www.iannindia.org)
 2017- Chairperson, Comm. of the Isr. Academy of Sci. for monitoring the *State of Science in Israel 2016 report*, delivered to the Knesset (Israeli parliament) and government, February (2018)
 2018- - Board of the Annual *Nano Research Journal* (Springer Nature) Award

2018- Chair of the Israel Academy of Sciences Committee responsible for the 3rd triennial report on the *State of Science in Israel 2019*, delivered to the Knesset (Israeli parliament) and government, December 2019

2019- Board of Juries for an International Prize

2020- 2020- Chair of the Isr. Academy of Sci. Comm. for monitoring of the report on the *State of Science in Israel 2019* delivered to the Knesset and the Israeli government in March 2021

2020- Board of Juries of the *Israeli Prime Minister Prize for Renewable Energy and Smart Transport* (Israeli and international prizes)

2020-2025 Member, and since 2021 Chair, *the Kavli Early Career Lectureship* of the Materials Research Society (MRS)

2020- Member, Intl. post-doctoral fellowship committee, the Isr. Acad. Sci.

2020- Member, Israeli post-doctoral fellowship committee, the Isr. Acad. Sci.

2021- Chair of the Israel Academy of Sciences Committee responsible for the 4th triennial report on the *State of Science in Israel 2022*- delivered to the Israeli Parliament (Knesset) and the government, November 2022

2021- Member, Faculty of Chemistry Prize Committee, Weizmann Institute

2021- 2026 Convener of the annual Israel Rubinstein Memorial Lecture, Weizmann Institute

2022- Member of the Intl. Board, UNAM, Bilkent University, Ankara

2022- Co-Chair, meeting of the Royal Society and the Israel Academy on Materials Science, Manchester, September

2022- Member, Prize Committee, Nano IL (2024)

2023- Member, Prize Committee, IVS Early Career Prize

2023- Member, IAS&H Committee for new members (Science Division)

2023- Member of the Intl. Board of *Quantum Materials for Sustainable Applications* (QM4ST), Consortium of Czech Universities

2024- Established with his wife (Prof. Alla Zak) the annual *Zak-Tenne Lectureship in Materials Science* of the Isr. Vacuum Soc.

2024-2025- Co-convener of the annual Schmidt Lecture, Weizmann Institute

2024-2025- Convener of the Chemists/Chem. & Materials Eng. Forum of the Israeli Academy of Science & Humanities for selection of future candidates for the IAS@H.

2026- Member of the advisory committee for the Faculty of Chemistry for industry-academia relationship; Member-Nano IL prizes committee.

Editorial duties

2002-2006- Principal Editor-*Journal of Materials Research*

- Editorial Advisory Boards:

Materials Science Forum, *Trans Tech Publications* (1997-); *Chem. Mater.* (2003-2008); *European J. Sol. State Inorg. Chem.* (1993-2000); *Solid State Sciences* (2000-2023); *Microscopy*, *Microanalysis*, *Microstructures* (1995-1999); *Advanced Functional Materials*, Wiley-VCH (2001-2018); *Materials Research Bulletin* (2005-); *Nanotechnology* (IoP) (2005-2008); *Recent Patents in Nanotechnology*, Bentham (2006-); *Chemistry*, *Asian Journal* Wiley-VCH (2006-2018); *Nano*, World Scientific Publishing (2006-); *Digest J. Nanomater. Biostruct.* (2006-); *The Open Nanosci. J.*, Bentham (2007-); *The Open Appl. Phys. J.*, Bentham (2007-2014), became *The Open Phys. J* (2014-); *PhysicaPlus* (On-Line Magazine of the Isr. Phys. Soc., 2006-); *Nano Research*, Springer and Tsinghua University Press (2007-2013; 2014-); *Nano and Biomaterials* (2009-), InderScience; *Isr. J. Chem.*, Wiley-VCH (2010-); *Nanomaterials and Energy*, ICE Pub. (UK); *Mater. Sci. Appl.*, Scientific Research Publications, USA (2011-); *ChemistryOpen*, ChemPubSoc Europe (2011-); *Particle* (Wiley-VCH-2012-2018); *Nanomater. and Nanotech.*, Open Access journal published by Intech (2011-); *Inorganics*, MDPI publisher, Basel, Switzerland (2012-); *Orectic Journal of Nanoscience* (2012); *Technology*, World Scientific (2014-); *China Science Materials*, Chinese Academy of Sci. (2014-2019); *The Open Physics Journal*, Bentham (2015-); *Functional Nanomaterials Journal*, Veruscript (London; 2016-); *Jacobs J. Inorganic Chem.*, Austin (TX) (2016-); *Int. e- Journal Nanotech. Nanomedicine* (2016); *EDP Sciences* (2017-); *Sci.* MDPI (2018-). *Crystals* MDPI (2020-); *Oxford Open Materials Science*, Oxford Univ. Press (2020-)

1997- Guest Editor, *Fullerene Research in Israel*, a special issue of *Fullerene Sci. and Technol.*

2006- Focused Issue Editor of the *J. Mater. Res.*, "Nanotubes and Nanowires"

2010- Co-editor for the special issue of the *Isr. J. Chem.*, "Inorg. Nanotubes and Nanostructures"

2013- Co-editor of *Carbon Functional Nanomaterials, Graphene and Related 2D-Layered Systems* MRS Proceeding volume (No. 1549), ISBN 978-1-60511-526-9.

2014- Royal Society of Chemistry list of selected group of referees in materials science (MHR)

2014- Co-editor, Special issue of *Inorganics* (MDPI Publications), "Inorganic Nanotubes and Fullerene-Like Nanoparticles". doi:10.3390/inorganics2040649

2014- Co-editor, Special issue of *Nanomaterials and Energy* (Inst. Civil Eng. (UK) Publications) “2D materials for energy research”. DOI: <http://dx.doi.org/10.1680/nme.2015.4.1.1>
 2014- Royal Society of Chemistry list of selected group of referees (MHR) in materials science.
 2016- Co-editor, Special issue of the *Isr. J. Chem.* “Computational Science of Inorganic Nanostructures”. DOI: 10.1002/ijch.201700015.
 2025- *eChem*, <https://www.sciltp.com/journals/eChem/editoroffice>, Scilight Press, Melbourne; Nano-Electrochem. and Photochem. <https://www.sciltp.com/journals/nenp/>

Honorary Board Member

2015- *Honorary Editorial Board member, Nanomaterials and Nanotechnology journal*
 2017 - *Materials Science Research India*
 2016 - *Nanomaterials and Nanotechnology J. (SAGE)- Honorary board member*
 2016 - *International Reviewer journal* (www.theinternationalreviewer.info)

Professional societies:

Swiss and European Physical Societies; Israel Society for Microscopy; Israel Chemical Society; Israel Vacuum Society; Israel Physical Society (up to ~2010); American Physical Society; Electrochemical Society; American Chemical Society; Materials Research Society; Royal Society of Chemistry (UK); Intl. Soc. Condition Monitoring (ISCM 2010-2018)

Visiting scientist positions:

1983- July -Laboratory of Solid-State Physics, CNRS, Meudon, France, with Dr. C. Lévy-Clément
 1984- February -Laboratory of Solid State Physics, CNRS, Meudon, France, with Drs. C. Lévy-Clément and R. Triboulet
 1984- May - Department of Physics, Brooklyn College of the City University of New York, with Prof. M. Tomkiewicz
 1984- August - Institute of Chemistry, University of Bern, with Dr. G. Calzaferri
 1985- February - Rockwell International R & D Center, Thousand Oaks, California, with Dr. Ron Haak
 1985- December - Photoluminescence Laboratory, CNRS, Meudon, France, with Dr. H. Mariette
 1986- Summer and 1987, February-Department of Physics, Konstanz University, Germany, February with Prof. E. Bucher and Dr. M. Lux-Steiner
 1988- February and 1987, May - Department of Chemistry, Michigan University, Ann-Arbor, with Prof. A. Francis and Dr. E. Lifshitz
 1989- December - Du-Pont Central Research Center, Wilmington DE, with Dr. B.A. Parkinson
 1991- January - CSIR, Madrid, with Dr. P. Salvador
 1990- September - Hahn-Meitner Institute (now Helmholtz Institute), Berlin, with Dr. H. Lewerenz
 1991- October-Laboratory of Solid-State Physics, CNRS, Meudon, France, with Drs. C. Lévy-Clément and M. Rodot
 1992- February - Department of Synthetic Chemistry, the University of Tokyo, with Prof. A. Fujishima
 1994- Summer- Hahn-Meitner Institute (now Helmholtz Institute), Berlin, with Prof. H. Tributsch

List of Publications

1. Photochemistry of Solutions of Eu(III) and Eu(II), Y. Haas, G. Stein and R. Tenne, *Isr. J. Chem.* **10**, 529-536 (1972).
2. Effect of Tetraalkylammonium Salts on Hydrophobic Interaction, R. Tenne and A. Ben-Naim, *J. Phys. Chem.* **80**, 1120-1122 (1976).
3. Distribution Functions at Zero Separation and an Equation of State for Hard-Core Particles with a Finite Interaction Tail, B. Barboy and R. Tenne, *Molec. Phys.* **31**, 1749-1964 (1976).
4. Distribution Functions at Zero Separation and an Equation of State for Hard-Core Particles with a Finite Interaction Tail II. Angle-Dependent Potential, B. Barboy and R. Tenne, *Molec. Phys.* **33**, 331-337 (1977).
5. Application of the Scaled Particle Theory to the Problem of Hydrophobic Interaction, A. Ben-Naim and R. Tenne, *J. Chem. Phys.* **67**, 627-633 (1977).
6. Application of the Scaled Particle Theory to the Problem of Hydrophobic Interaction: Part II - Mixtures of Water and Ethanol, R. Tenne and A. Ben-Naim, *J. Chem. Phys.* **67**, 4632-4636 (1977).
7. Scaled Particle Theory of Nonadditive Hard Spheres: Solutions for General Positive Nonadditivity, R. Tenne and E. Bergmann, *Phys. Rev. A* **17**, 2036-2045 (1978).
8. Scaled Particle Theory of Mixtures of Hard Spheres with Negatively Non-Additive Diameters, E. Bergmann and R. Tenne, *Chem. Phys. Lett.* **56**, 310-313 (1978).
9. Distribution Functions and the Equations of State of Sticky Hard Sphere Fluids in the Percus-Yevick Approximation. B. Barboy and R. Tenne, *Chem. Phys.* **38**, 369-387 (1979).
10. Lösungen des Modells des Skalierten Teilchens für Mischungen harter Kugeln mit Nicht-Additiven Durchmessern, E. Bergmann and R. Tenne, *Helvetica Physica Acta* **51**, 537 (1978).
11. Scaled Particle Theory for Mixtures of Nonadditive Hard Discs, R. Tenne and E. Bergmann, *J. Chem. Phys.* **70**, 1952-1962 (1979).
12. Un Models de la Localisation Partielle des Gas Adsorbes aus Surfaces des Solides, E. Bergmann and R. Tenne, *Helvetica Physica Acta* **52**, 100 (1979).
13. The Zero Separation Theorems for the Distribution Functions and the Equation of State for Hard Core Fluids, R. Tenne and B. Barboy, *Helvetica Physica Acta* **52**, 425 (1979).
14. Nonadditive Hard Discs, A Model for Partially Localized Adsorption, R. Tenne and E. Bergmann, *Phys. Rev. B* **22**, 702-716 (1980).
15. Improved Efficiency of CdSe Photoanodes by Photoelectrochemical Etching, R. Tenne and G. Hodes, *Appl. Phys. Lett.* **37**, 428-431 (1980).
16. Photoelectrochemistry of the $\text{CuInS}_2/\text{S}_n^{2-}$ System, Y. Mirovsky, D. Cahen, G. Hodes, R. Tenne and W. Girit, *Solar Energy Mater.* **4**, 169-177 (1981).
17. The Effect of Photoelectrochemical Etching on the Performance of CdS Based Photoelectrochemical Cells, R. Tenne, *Appl. Phys.* **25**, 13-16 (1981).
18. The Effect of Some Surface Treatments on the Characteristics of Cd-Chalcogenides/Polysulfide Schottky Barrier, R. Tenne, *Ber. Bunsenges. Phys. Chem.* **85**, 413-421 (1981).
19. The Effect of Photoelectrochemical Etching on the Performance of CdTe Polysulfide Photoelectrochemical Cells, N. Müller and R. Tenne, *Appl. Phys. Lett.* **39**, 283-285 (1981).
20. Thermodynamics of a One-Dimensional Hard Rod Mixture with Non-Additive Lengths, B. Barboy and R. Tenne, *Molec. Phys.* **44**, 1137-1143 (1981).
21. The Effect of Added Salts on the Stability of Cd-Chalcogenide/Polysulfide Photoelectrochemical Cells, R. Tenne, *J. Electrochem. Soc.*, **129**, 143-145 (1982).
22. Photoelectrochemical Performance of the n-CdSe/Aqueous Polysulfide System at Room and Sub-Zero Ambient Temperatures, N. Müller, R. Tenne and D. Cahen, *J. Electroanal. Chem.* **130**, 373-379 (1982).
23. Activation Energy for Nucleation of the Supercooled Hard-Sphere Fluid, R. Tenne, *Chem. Phys. Lett.* **87**, 177-180 (1982).
24. Photoelectrochemical Solar Cells: Interpretation of Cell Performance Using Electrochemical Determination of Photoelectrode Properties, Y. Mirovsky, R. Tenne, G. Hodes and D. Cahen, *Thin Solid Films* **91**, 349-356 (1982).
25. Zero Separation Theorem for Systems with Long Range Interactions, R. Tenne, B. Barboy, S. Baer and M. Silbert, *Molec. Phys.* **47**, 913-924 (1982).
26. Ternary Chalcogenide-Based Photoelectrochemical Cells. The n-CdIn₂Se₄/Aqueous Polysulfide System, R. Tenne, Y. Mirovsky, Y. Greenstein and D. Cahen, *J. Electrochem. Soc.* **129**, 1506-1512 (1982).
27. The Relation between Performance and Stability of Cd-Chalcogenide/Polysulfide Photoelectrochemical Cells. I. Model and the Effect of Photoetching, R. Tenne, N. Müller, Y. Mirovsky and D. Lando, *J. Electrochem. Soc.* **130**, 852-860 (1983).

28. The Relation between Performance and Stability of Cd-Chalcogenide/Polysulfide Photoelectrochemical Cells: The Effect of Potential, R. Tenne, G. Hodes, J. Manassen, N. Müller, Y. Mirovsky, D. Lando and D. Cahen, *J. Electroanal. Chem.* **143**, 103-112 (1983).
29. Performance and Stability of CdSe/Polysulfide Photoelectrochemical Cells under Chopped Illumination, R. Tenne, *J. Electroanal. Chem.* **143**, 113-120 (1983).
30. Numerical Simulation of the Long-Term Performance and Corrosion of Photoelectrochemical Cells, H. Flaisher and R. Tenne, *J. Phys. Chem.* **87**, 3061-3068 (1983).
31. Selective Electrochemical Etching of *p*-CdTe (for Photovoltaic Cells), R. Tenne, *Appl. Phys. Lett.* **43**, 201-204 (1983).
32. Study of the Cd-Chalcogenide/Ferri-Ferrocyanide Photoelectrochemical Cells: Effect of Surface Morphology and Added Salt, R. Tenne, *J. Electrochem. Soc.* **130**, 2163-2169 (1983).
33. Dissociative Electron Transfer on Ionic Surfaces, Y. Zeiri, M. Shapiro and R. Tenne, *Chem. Phys. Lett.* **99**, 11-15 (1983).
34. Selective (Photo) Electrochemical Etching of Semiconductor Surfaces, R. Tenne and G. Hodes, *Surf. Sci.* **135**, 453-478 (1983).
35. Application of Cathodoluminescence Imaging for the Investigation of CdTe. The Effect of Photoetching, R. Tenne and A.K. Chin, *Mater. Lett.* **2**, 143-146 (1983).
36. Adsorption of Ions on Semiconductor Surfaces. I. Silver and Halide Ions on Silver Halides, Y. Zeiri, R. Tenne and M. Shapiro, *J. Chem. Phys.* **80**, 5283-5294 (1984).
37. Electrolyte Electreflectance of Single-Crystal CdIn₂Se₄ in a Photoelectrochemical Solar Cell, M. Tomkiewicz, W. Siripala and R. Tenne, *J. Electrochem. Soc.* **131**, 736-740 (1984).
38. Improved Performance of Cadmium Chalcogenide Photoelectrochemical Cells: Surface Modification Using Copper Sulfide, H. Flaisher, R. Tenne and G. Hodes, *J. Phys. D. Appl. Phys.* **17**, 1055-1066 (1984).
39. Photoelectrochemical Etching of ZnSe and Nonuniform Charge Flow in Schottky Barriers, R. Tenne, H. Flaisher and R. Triboulet, *Phys. Rev. B.* **29**, 5799-5804 (1984).
40. A Pronounced Cation Effect on Performance and Stability of Cd-Chalcogenide/Polysulfide Photoelectrochemical Cells, S. Licht, R. Tenne, H. Flaisher and J. Manassen, *J. Electrochem. Soc.* **131**, 950-951 (1984).
41. Investigation into the Photocurrent Quadrature Signal of Photoelectrochemical Cells, H. Flaisher and R. Tenne, *J. Appl. Phys.* **56**, 2930-2939 (1984).
42. Photoelectrochemical etching of ZnS: Further Evidence for Non-Uniform Flow of Charge Carriers in Schottky Barriers, R. Tenne, and M. Shatkay, *Appl. Phys.* **B35**, 243-247 (1984).
43. Evidence for Nonuniform Flow of Charge Carriers Through Semiconductor Junctions, R. Tenne, V. Marcu and N. Yellin, *Appl. Phys. Lett.* **45**, 1219-1222 (1984).
44. Improved Performance of InSe Based Photoelectrochemical Cells by Means of a Selective (Photo)Electrochemical Etching, R. Tenne, B. Theys, J. Rioux and C. Lévy-Clément, *J. Appl. Phys.* **57**, 141-146 (1985).
45. Controlled Photoelectrochemical Etching of CdSe and observation of a Photocathodic Effect, R. Tenne and W. Giritat, *J. Electroanal. Chem.* **186**, 127-137 (1985).
46. Electrical Properties of CdTe Crystals Grown by VUVG from Nonstoichiometric Charges, N. Yellin, A. Zemel and R. Tenne, *J. Electronic Materials* **14**, 85-94 (1985).
47. Photoelectrochemistry of CdSe in Sulfite Electrolyte, R. Tenne and G. Hodes, *Ber. Bunsenges. Phys. Chem.* **89**, 74-78 (1985).
48. Photoluminescence of CdSe: The Effect of Photoetching, R. Garuthara, M. Tomkiewicz and R. Tenne, *Phys. Rev. B.* **31**, 7844-7849 (1985).
49. Passivation of Recombination Centers in WSe₂ by Photoelectrochemical Etching, R. Tenne, W. Spahni, G. Calzaferri and A. Wold, *J. Electroanal. Chem.* **189**, 247-256 (1985).
50. Ternary Chalcogenide Based Photoelectrochemical Cells. V. Surface Analyses of the CuInX₂/aqueous Polysulfide Interface (X=S,Se), by X-ray Photoelectron Spectroscopy; Absence of Se/S Exchange in the CuInSe₂/S_n²⁻ System, Y. Mirovsky, G. Sawatzky, R. Tenne and D. Cahen, *J. Electrochem. Soc.* **132**, 1070-1076 (1985).
51. High Efficiency n-Cd(Se,Te)/S²⁻ Photoelectrochemical Cell Resulting from Solution Chemistry Control, S. Licht, R. Tenne, G. Dagan, G. Hodes, J. Manassen, D. Cahen, R. Triboulet, J. Rioux and C. Lévy-Clément, *Appl. Phys. Lett.* **46**, 608-611 (1985).
52. Ternary Chalcogenide-Based Photoelectrochemical Cells. VII. Analysis of the Chemical Processes Occurring at the CdIn₂Se₄ Surface During Photoelectrochemical Operation, R. Tenne, Y. Mirovsky, G. Sawatzky and W. Giritat, *J. Electrochem. Soc.* **132**, 1829-1835 (1985).
53. Photoelectrochemical Etching of Compound Semiconductors: Wavelength Dependence, R. Tenne, V. Marcu and Y. Prior, *Appl. Phys.* **A37**, 205-209 (1985).
54. Ternary Cd(Se,Te) Alloy Semiconductors: Synthesis, Material Characterization and High Efficiency Photoelectrochemical Cells, C. Lévy-Clément, R. Triboulet, J. Rioux, A. Etcheberry, S. Licht and R. Tenne, *J. Appl. Phys.* **58**, 4703-4709 (1985).

55. Passivation of Recombination Centers in n-WSe₂ Yields High Efficiency (greater than 14 percent) Photoelectrochemical Cell, R. Tenne and A. Wold, *Appl. Phys. Lett.* **47**, 707-709 (1985).
56. Cation Effects on the Electrochemistry of Anions in Polysulfide Photoelectrochemical Cells, S. Licht, R. Tenne, H. Flaisher and J. Manassen, *J. Electrochem. Soc.* **133**, 52-59 (1986).
57. Electrochemical Characterization of Photoetching Products of CdSe, V. Marcu, R. Tenne and I. Rubinstein, *J. Electrochem. Soc.* **133**, 1143-1148 (1986).
58. Surface Analyses of the CdSe_{0.65}Te_{0.35}/Aqueous Polysulfide Interface in Relation to its Photoelectrochemical Properties, R. Tenne, C. Lévy-Clément and G. Sawatzky, *J. Vac. Sci. Technol. A.* **4**, 2470-2476 (1986).
59. Photoelectrochemical Etching of n-MoSe₂, R. Tenne and A. Wold, *Ber. Bunsenges. Phys. Chem.* **9**, 545-549 (1986).
60. Electrochemical Photocapacitance of ZnSe: Effect of Photoelectrochemical Etching, R. Tenne, R. Haak and R. Triboulet, *Ber. Bunsenges. Phys. Chem.* **91**, 597-599 (1987).
61. The Hg_{1-x}Cd_xTe_{1-y}Se_y System: The Existence Region of the Wurtzite Structure, N. Yellin, A. Raizman, A. Shachna, H. Shacham and R. Tenne, *Solar Energy Mater.* **15**, 115-120 (1987).
62. Crystallographic Effects on the Photoelectrochemical Etching of CdTe, V. Marcu, R. Tenne and N. Yellin, *Appl. Surf. Sci.* **28**, 429-438 (1987).
63. Photoluminescence of CdSe: Evidence for Selective Etching of Donor States, R. Tenne, H. Mariette, C. Lévy-Clément and R. Jäger-Waldau, *Phys. Rev. B* **36**, 1204-1207 (1987).
64. A Light-Variation Insensitive High Efficiency Solar Cell, S. Licht, G. Hodes, R. Tenne and J. Manassen, *Nature* **326**, 863-864 (1987). With issue Coverage.
65. Photoelectrochemical Properties of the Dilute Magnetic Semiconductor, Cd_{0.95}Mn_{0.05}Se, R. Tenne, D. Mahalu, E. Klein and W. Girit, *Solar Energy Mater.* **17**, 65-72 (1988).
66. Control of Impurity Concentrations on CdSe Surfaces, R. Tenne, H. Mariette, C. Lévy-Clément and R. Jäger-Waldau, *J. Cryst. Growth* **86**, 826-833 (1988).
67. Catalytic Effect of Metal ions on In:SnO₂/Aqueous Polysulfide Interface: Application for Polysulfide Based Photoelectrochemical Cells, R. Tenne, M. Braun, R. Braun, W. Kerfin and W. Koschel, *Ber. Bunsenges. Phys. Chem.* **92**, 42-46 (1988).
68. Passivation of Recombination Centers on the WSe₂ Surface, D. Mahalu, A. Jakubowicz, A. Wold and R. Tenne, *Phys. Rev. B.* **38**, 1533-1536 (1988).
69. Photoelectrochemical Properties of the Cd-rich Cd_xHg_{1-x}Te alloy, C. Lévy-Clément, R. Triboulet and R. Tenne, *Solar Energy Mater.* **17**, 201-206 (1988).
70. Photocurrent Oscillations in the Cadmium Telluride Electrolyte Systems, V. Marcu and R. Tenne, *J. Phys. Chem.* **92**, 7089-7092 (1988).
71. Adsorption of Cesium from Sulphide Solutions on II-VI Compounds, M. Peisach, C.A. Rabe, C.A. Pineda, D. Mahalu and R. Tenne, *J. Vac. Sci. Technol. B* **6**, 1506-1513 (1988).
72. Thin Film CdSe: Photoluminescence and Electronic Measurements, R. Jäger-Waldau, N. Stücheli, M. Braun, M. Lux-Steiner, E. Bucher, Tenne, H. Flaisher, W. Kerfin, R. Braun and W. Koschel, *J. Appl. Phys.* **64**, 2601-2607 (1988).
73. Chemical Modifications of Hg_{0.1}Cd_{0.9}Te Surfaces: Analysis with Auger Electron Spectroscopy, R. Tenne, R. Brener and R. Triboulet, *J. Vac. Sci. Technol. A* **7**, 2570-2575 (1989).
74. WSe₂: Optical and Electrical Properties as Related to Surface Passivation of Recombination Centers, A. Jakubowicz, D. Mahalu, M. Wolf, A. Wold and R. Tenne, *Phys. Rev. B* **40**, 2992-3000 (1989).
75. Catalytic Effect of Heavy Metal Ions on the SnO₂/Aqueous Polyiodide Interface and its Application to Photoelectrochemical Cells, R. Tenne, M. Peisach, C.A. Rabe, C.A. Pineda and A. Wold, *J. Electroanal. Chem.* **269**, 389-397 (1989).
76. On the Kinetics of Charge Transfer Between an Illuminated CdSe Electrode and Polysulfide Electrolyte, P. Allouge, H. Cachet, M. Froment and R. Tenne, *J. Electroanal. Chem.* **269**, 295-304 (1989).
77. Room-Temperature Absorption Study of CdTe-ZnTe Superlattices, H. Shtrikman, R. Tenne, D. Mahalu and E. Finkman, *Appl. Phys. Lett.* **55**, 553-556 (1989).
78. Transport and Optical Properties of Low-Resistivity CdSe, R. Tenne, R. Jäger-Waldau, M. Lux-Steiner, E. Bucher, J. Rioux and C. Lévy-Clément, *Phys. Rev. B* **42**, 1763-1772 (1990).
79. A New Process for Optical Data Recording by Photoelectrochemical Etching, A. Ryan, C. Lévy-Clément, D. Mahalu and R. Tenne, *Ber. Bunsenges. Phys. Chem.* **94**, 671-676 (1990).
80. Controlled Photocorrosion of Tungsten Diselenide: Influence of Molecular Oxygen, D. Mahalu, M. Peisach, A. Wold, and R. Tenne, *J. Phys. Chem.* **94**, 8012-8013 (1990).
81. Primary Reactions in the Photocorrosion of CdSe through Photocapacitance Measurements, P. Allouge and R. Tenne, *J. Electrochem. Soc.* **138**, 261-268 (1991).
82. Efficiency and Stability Enhancement of n-Si Photoelectrodes in Aqueous Solutions, C. Lévy-Clément, A. Lagoubi, M. Neumann-Spallart, M. Rodot, and R. Tenne, *J. Electrochem. Soc.* **138**, L69-L71 (1991).

83. Microscopy of Mixed Surfaces on Layered Semiconductors, L. Margulis, D. Mahalu, B.A. Parkinson, and R. Tenne, *Scanning Microscopy* **5**, 953 (1991).
84. Preparation of WSe₂ Surfaces with High Photoactivity, D. Mahalu, L. Margulis, A. Wold, and R. Tenne, *Phys. Rev. B., (Rapid Commun.)* **45**, 1943-1946 (1992).
85. Shallow Donor State Removal via Photoelectrochemical Etching of Cd(Se,Te), E. Galun, G. Hodes, M. Peisach, E. Muranevich, and R. Tenne, *J. Crystal Growth* **117**, 666-671 (1992).
86. Photoelectrochemical Etching of Silicon, C. Lévy-Clément, A. Lagoubi, R. Tenne, and M. Neumann-Spallart., *Electrochem. Acta* **37**, 877-888 (1992).
87. Unusual Photoluminescence of Porous CdS (CdSe), R. Tenne, V. Nabutovsky, E. Lifshitz, and A.F. Francis, *Solid State Comm.* **82**, 651-654 (1992).
88. Preparation and Microstructure of WS₂ Thin Films, M. Genut, L. Margulis, G. Hodes and R. Tenne, *Thin Solid Films* **217**, 91-97 (1992).
89. Effect of Substrate on Growth of WS₂ Thin Films, M. Genut, L. Margulis, R. Tenne and G. Hodes, *Thin Solid Films* **219**, 30-36 (1992).
90. Photostimulated Gettering of Deep Band-gap Impurities from Semiconductors by Resonance Excitation: Fe from Cd_{0.98}Fe_{0.02}Se, M. Homyonfer, H.-H. Strehblow, W. Giritat, and R. Tenne, *Phys. Rev. B* **47**, 1244-1248 (1993).
91. Polyhedral and Cylindrical Structures of Tungsten Disulphide, R. Tenne, L. Margulis, M. Genut and G. Hodes, *Nature* **360**, 444-446 (1992). See also write-up in *Scientific American*, p. 24, February (1993).
92. Absorption Tail of Low Resistivity CdSe_{1-x}Te_x: Comparison Between Absorption and Quantum Efficiency Measurements, M. Neumann-Spallart, E. Galun, G. Hodes, C. Lévy-Clément, Y. Marfaing, E. Muranevich, and R. Tenne, *J. Appl. Phys.* **73**, 7753-7760 (1993).
93. Collection Efficiency of Photoexcited Carriers of Electrochemically Etched Surfaces, V.M. Nabutovsky, K. Eherman, and R. Tenne, *J. Appl. Phys.* **73**, 2866-2871 (1993).
94. Microscopic Phase Stability of the Dilute Magnetic Semiconductor Cd_{1-x}Fe_xSe, E. Klein, M. Homyonfer, W. Giritat, and R. Tenne, *J. Mater. Res.* **8**, 1348-1352 (1993).
95. Efficient Electrochemical Reduction of Nitrate to Ammonia Using Conductive Diamond Film Electrodes, R. Tenne, K. Patel, K. Hashimoto, and A. Fujishima, *J. Electroanal. Chem.* **347**, 409-415 (1993).
96. The WSe₂/Tungsten-Oxide Interface. Structure and Photoluminescence, R. Tenne, K. Eherman, K. Mahalu, M. Peisach, W. Kautek, A. Wold, R. Matson, and D.H. Waldeck, *Ber. Bunsenges. Phys. Chem.* **97**, 702-709 (1993).
97. Nested Fullerene-Like Structures, L. Margulis, G. Salitra, R. Tenne*, and M. Talianker, *Nature* **365**, 113-114 (1993).
98. Room-Temperature Photoluminescence of Photoelectrochemically Etched n-Type Si, E. Galun, A. Lagoubi, R. Tenne, and C. Lévy - Clément, *J. Lum.* **57**, 125-129 (1993).
99. Nested Polyhedra of MX₂ (M=W, Mo; X=S, Se) Probed by High Resolution Electron Microscopy and Scanning Tunneling Microscopy, M. Hershfinkel, L.A. Gheber, V. Volterra, J.L. Hutchison, L. Margulis, and R. Tenne, *J. Am. Chem. Soc.* **116**, 1914-1917 (1994).
100. Highly Oriented WSe₂ Thin Films Prepared by Selenization of Evaporated WO₃, G. Salitra, G. Hodes, E. Klein, and R. Tenne, *Thin Solid Films* **245**, 180-185 (1994).
101. Elastic Equilibrium of Curved Thin Films, D.J. Srolovitz, S.A. Safran, and R. Tenne, *Phys. Rev. B* **49**, 5260 -5270 (1994).
102. The Microstructure of Titanium-Modified Silica Glass Waveguides Prepared by the Sol-Gel Method, Y. Sorek, R. Reisfeld, and R. Tenne, *Chem Phys. Lett.* **227**, 235-242 (1994).
103. Efficient Reduction of Nitrite and Nitrate to Ammonia Using Thin-Film B-Doped Diamond Electrodes, C. Reuben, E. Galun, H. Cohen, R. Tenne, R. Kalish, Y. Muraki, K. Hashimoto, A. Fujishima, J.E. Butler, and C. Lévy-Clément, *J. Electroanal. Chem.* **396**, 233-239 (1995).
104. High-Rate, Gas-Phase Growth of MoS₂ Nested Inorganic Fullerenes and Nanotubes, Y. Feldman, E. Wasserman, D.J. Srolovitz, and R. Tenne, *Science* **267**, 222-225 (1995).
105. Cation Electrolytic Modification of n-WSe₂/Aqueous Polyiodide Photoelectrochemistry, S. Licht, N. Myung, R. Tenne and G. Hodes, *J. Electrochem. Soc.* **142**, 840-844 (1995).
106. Morphology of n-type Macroporous Silicon: Doping Density Dependence, E. Galun, C. Reuben, S. Matlis, R. Tenne, and C. Lévy-Clément, *J. Phys. Chem.* **99**, 4132-4140 (1995).
107. Morphology of Nested Fullerenes, D.J. Srolovitz, S.A. Safran, M. Homyonfer, and R. Tenne, *Phys. Rev. Lett.* **74**, 1779-1782 (1995).
108. Crystallization of Layered Metal-Dichalcogenides Films on Amorphous Substrates, E. Galun, H. Cohen, L. Margulis, A. Vilan, T. Tsirlina, M. Hershfinkel, W. Jaegermann, K. Ellmer, G. Hodes, and R. Tenne, *Appl. Phys. Lett.* **67**, 3474-3437 (1995).
109. TEM study of chirality in MoS₂ nanotubes, L. Margulis, P. Dluzewski, Y. Feldman, and R. Tenne, *J. Microscopy* **181**, 68-71 (1996).

110. Photoelectrochemical Reduction of Carbon Dioxide in Aqueous Solutions on p-GaP Electrodes: an a.c. impedance study with phase-sensitive detection, H. Flaisher, R. Tenne, and M. Halmann, *J. Electroanal. Chem.* **402**, 97-105 (1996).
111. Characterization of Oriented Thin Films of WSe₂ Grown by van der Waals Rheotaxy, R. Tenne, E. Galun, A. Ennaoui, S. Fiechter, K. Ellmer, M. Kunst, Ch. Koelzow, Ch. Pettenkofer, S. Tiefenbacher, R. Scheer, H. Jungblut, and W. Jaegermann, *Thin Solid Films* **272**, 38-42 (1996).
112. Electrochemical Study of Diamond Thin Films in Neutral and Basic Solutions of Nitrate, F. Bouamrane, A. Tadjeddine, J.E. Butler, R. Tenne, and C. Lévy-Clément, *J. Electroanal. Chem.* **405**, 95-99 (1996).
113. Bulk Synthesis of Inorganic Fullerene-Like MS₂ (M=Mo, W) from the Respective Trioxides and the Reaction Mechanism, Y. Feldman, G.L. Frey, M. Homyonfer, V. Lyakhovitskaya, L. Margulis, H. Cohen, G. Hodes, J.L. Hutchison, and R. Tenne, *J. Am. Chem. Soc.* **118**, 5362-5367 (1996).
114. Nucleation of WS₂ Fullerenes at Room Temperature, L. Margulis, S. Iijima and R. Tenne, *Microscopy, Microanalysis, Microstructures* **7**, 87-89 (1996).
115. Scanning Tunneling Microscope Induced Crystallization of Fullerene-like MoS₂, M. Homyonfer, Y. Mastai, M. Hershinkel, V. Volterra, J.L. Hutchison, and R. Tenne, *J. Am. Chem. Soc.* **118**, 7804-7808 (1996).
116. Highly Textured Films of Layered Metal Disulfide 2H-WS₂: Preparation and Optoelectronic Properties, A. Matthäus, A. Ennaoui, S. Fiechter, T. Kiesewetter, K. Diesner, M. Kunst, I. Sieber, W. Jaegermann, T. Tsirlina, and R. Tenne, *J. Electrochem. Soc.* **144**, 1013-1019 (1997).
117. Surface Modifications: Nanostructures and Nested Polyhedra Generated by Pulsing the STM Tip, M. Hershinkel, L.A. Gheber, M. Homyonfer, R. Tenne and V. Volterra, *Surf. Rev. Lett.* **4**, 1015-1020 (1997).
118. Intercalation of Inorganic Fullerene-Like Structures Yields Photosensitive Films and New Tips for Scanning Probe Microscopy, M. Homyonfer, B. Alpers, Yu. Rosenberg, L. Sapir, S.R. Cohen, G. Hodes, and R. Tenne, *J. Am. Chem. Soc.* **119**, 2693-2698 (1997).
119. Hollow Nanoparticles of WS₂ as Potential Solid-State Lubricants, L. Rapoport, Yu. Bilik, Y. Feldman, M. Homyonfer, S.R. Cohen, and R. Tenne, *Nature* **387**, 791-793 (1997). See also News and Views, *Nature* **387**, 761 (1997). See also, *Physics Today* **67**, February 2014, p.22; DOI <http://dx.doi.org/10.1063/PT.3.2273>.
120. Preparation and Characterization of CdS Films Synthesized in Situ in Zirconia Sol-Gel Matrix, M. Zelner, H. Minti, R. Reisfeld*, H. Cohen, and R. Tenne, *Chem. Mater.*, **9**, 2541-2543 (1997).
121. Electrochemical Deposition of Quantized Particles MoS₂ Thin-Films, E.A. Ponomarev, A. Albu-Yaron, R. Tenne, and C. Lévy-Clément, *J. Electrochem. Soc.* **144**, L277-L279 (1997).
122. Negative Curvature in Inorganic Fullerene-like Structure, M. Homyonfer, Y. Feldman, L. Margulis, and R. Tenne, *Fullerene Sci. Tech.* (currently named *Fullerenes, Nanotubes and Carbon Nanostructures*) **6**, 59-66 (1998).
123. Synthesis and Characterization of Inorganic Fullerene-Like WSe₂, T. Tsirlina, Y. Feldman, M. Homyonfer, J. Sloan, J.L. Hutchison and R. Tenne, *Fullerene Sci. Tech.* (currently named *Fullerenes, Nanotubes and Carbon Nanostructures*) **6**, 157-165 (1998).
124. Optical Absorption Spectra of Inorganic Fullerene-Like MS₂ (M=Mo, W), G. L. Frey, S. Elani, M. Homyonfer, Y. Feldman, and R. Tenne, *Phys. Rev. B* **57**, 6666-6671 (1998).
125. Underpotential Deposition of Cu on Boron-Doped Diamond Thin Films, F. Bouamrane, A. Tadjeddine, R. Tenne, J.E. Butler, R. Kalish, C. Lévy-Clément, *J. Phys. Chem.* **102**, 134-140 (1998).
126. Near Field Electron Energy Loss Spectroscopy of Nanoparticles, H. Cohen, T. Maniv, R. Tenne, Y. Rosenfeld-Hacohen, O. Stephan, and C. Colliex, *Phys. Rev. Lett.* **80**, 782-785 (1998).
127. Highly Oriented Photoactive Polycrystalline MoS₂ Layers Obtained by Van der Waals Rheotaxy Technique from Electrochemically Deposited Thin Films, E.A. Ponomarev, R. Tenne, A. Katty, and C. Lévy-Clément, *Solar Energy Mater. Solar Cells* **52**, 125-133 (1998).
128. Stress-Induced Fragmentation of Multiwall Carbon Nanotubes in a Polymer Matrix, H.D. Wagner, O. Lourie, Y. Feldman, R. Tenne, *Appl. Phys. Lett.* **72**, 188-190 (1998).
129. The Tribological Behavior of Type II Textured MX₂ (M=Mo,W;X=S,Se) Films, S.R. Cohen, L. Rapoport, E.A. Ponomarev, H. Cohen, T. Tsirlina, R. Tenne, and C. Lévy-Clément, *Thin Solid Films* **324**, 190-197 (1998).
130. Kinetics of Nested Inorganic Fullerene-like Nanoparticle Formation, Y. Feldman, V. Lyakhovitskaya, and R. Tenne, *J. Am. Chem. Soc.* **120**, 4176-4183 (1998).
131. Optical Properties of MS₂ (M=Mo,W) Inorganic Fullerene-Like and Nanotube Material Optical Absorption and Resonance Raman Measurements, G.L. Frey, R. Tenne, M.J. Matthews, M.S. Dresselhaus and G. Dresselhaus, *J. Mater. Res.* (special issue dedicated to carbon nanotubes) **13**, 2412-2417 (1998).
132. Cage Structures and Nanotubes of NiCl₂, Y. Rosenfeld Hacohen, E. Grunbaum, R. Tenne*, J. Sloan, and J.L. Hutchison, *Nature* **395**, 336-337 (1998). See also *New Scientist*, 26.9.98, p.17.
133. Defect and Ordered Tungsten Oxides Encapsulated Inside 2H-WX₂ (X=S,Se) Fullerene-Related Structures, J. Sloan, J.L. Hutchison, R. Tenne, Y. Feldman, M. Homyonfer, and T. Tsirlina, *J. Solid State Chem.* **144**, 100-117 (1999).
134. Inorganic Fullerene-like Material as Additives to Lubricants: Structure-Function Relationship, L. Rapoport, Y. Feldman, M. Homyonfer, H. Cohen, J. Sloan, J.L. Hutchison, and R. Tenne, *Wear* **225-229**, 975-982 (1999).

135. Encapsulation of WC Inside 2H-WS₂ Inorganic Fullerene Cages, A. Rothschild, J. Sloan, A.P.E. York, M. L.H. Green, J.L. Hutchison, and R. Tenne, *J. Chem. Soc., Chem. Commun.* 363-364 (1999).
136. Microtribology and Direct Force Measurements of WS₂ Nested Fullerene-Like Nanostructures, Y. Golan, C. Drummond, M. Homyonfer, R. Tenne, and J. Israelachvili, *Adv. Mater.* **11**, 934-937 (1999).
137. Raman and Resonance Raman Investigation of MoS₂ Nanoparticles, G.L. Frey, R. Tenne, M.J. Matthews, M.S. Dresselhaus, G. Dresselhaus, *Phys. Rev. B* **60**, 2883-2892 (1999).
138. Photoelectrochemical Studies with Inorganic Cage Structures of Metal Dichalcogenides, B. Alperson, M. Homyonfer, R. Tenne, *J. Electroanal. Chem.* **473**, 186-191 (1999).
139. Nanotribology of Novel Metal Dichalcogenides, S.R. Cohen, Y. Feldman, H. Cohen, and R. Tenne, *Appl. Surf. Sci.* **144-145**, 603-607 (1999).
140. Synthesis of Bulk WS₂ Nanotube Phases, A. Rothschild, G.L. Frey, M. Homyonfer, M. Rappaport and R. Tenne, *Mater. Res. Innov.* **3**, 145-149 (1999).
141. Comment on "Near-field electron energy loss spectroscopy of nanoparticles" – Reply, H. Cohen, T. Maniv, Y. Rosenfeld-Hacohen, R. Tenne, C. Colliex, *Phys. Rev. Lett.* **83**, 659 (1999).
142. WS₂ Nanotubes as Tips in Scanning Probe Microscopy, A. Rothschild, S.R. Cohen and R. Tenne, *Appl. Phys. Lett.* **75**, 4025-4028 (1999).
143. *In Situ* Imaging of Shearing Contacts in the Surface Forces Apparatus, Y. Golan, C. Drummond, J. Israelachvili and R. Tenne, *Wear* **245**, 190-195 (2000).
144. The Growth of WS₂ Nanotubes Phases, A. Rothschild, J. Sloan and R. Tenne, *J. Am. Chem. Soc.* **122**, 5169-5179 (2000).
145. Influence of the Electrochemical Deposition Parameters on the Microstructure of MoS₂ Thin Films, A. Albu-Yaron, C. Levy-Clement, A. Katty, S. Bastide and R. Tenne, *Thin Solid Films* **361**, 223-228 (2000).
146. Study on Preparation, Growth Mechanism and Optoelectronic Properties of Highly Oriented WSe₂ Thin Films, T. Tsirlina, V. Lyakhovitskaya, S. Fiechter and R. Tenne, *J. Mater. Res.* **15**, 2636-2646 (2000).
147. Morphology of Multiwall WS₂ Nanotubes, A. Rothschild, R. Popovitz-Biro, O. Lourie and R. Tenne, *J. Phys. Chem. B* **104**, 8976-8981 (2000).
148. Growth Mechanism of MoS₂ Fullerene-Like Nanoparticles by the Gas Phase Synthesis, A. Zak, Y. Feldman, V. Alperovich, R. Rosentsveig, and R. Tenne, *J. Am. Chem. Soc.* **122**, 11108-11116 (2000).
149. New Reactor for Production of Tungsten Disulfide Onion-Like (Inorganic Fullerene-Like) Nanoparticles, Y. Feldman, A. Zak, R. Popovitz-Biro and R. Tenne, *Solid State Sci.* **2**, 663-672 (2000).
150. Preparation and Characterization of CdTe Nanoparticles in Zirconia Films Prepared by the Sol-Gel Method, M. Zelner, H. Minti and R. Reisfeld, H. Cohen, Y. Feldman, S.R. Cohen and R. Tenne, *J. Sol Gel Sci Tech.* **20**, 153-160 (2001).
151. Slow Release of Fullerene-Like WS₂ Nanoparticles as a Superior Solid Lubrication Mechanism in Composite Matrices, L. Rapoport, M. Lvovsky, I. Lapsker, V. Leshchinsky, Yu Volovik, Y. Feldman, A. Zak, and R. Tenne, *Adv. Eng. Mater.* **3**, 71-75 (2001).
152. Friction and Wear of Bronze Powder Composites Including Fullerene-Like WS₂ Nanoparticles, L. Rapoport, M. Lvovsky, I. Lapsker, V. Leshchinsky, Yu Volovik, Y. Feldman, and R. Tenne, *Wear* **249**, 149-156 (2001).
153. Nanoparticles of CdCl₂ with Closed Cage Structures, R. Popovitz-Biro, A. Twersky, Y. Rosenfeld Hacohen and R. Tenne, *Isr. J. Chem.* **41**, 7-14 (2001).
154. Slow Release of Fullerene-Like WS₂ Nanoparticles from Fe-Ni-Graphite Matrix: a Self-Lubricating Nanocomposite, L. Rapoport, M. Lvovsky, I. Lapsker, V. Leshchinsky, Yu Volovik, Y. Feldman, A. Margolin, R. Rosentsveig and R. Tenne, *NanoLett.* **1**, 137-140 (2001).
155. Microtribology and Friction-Induced Material Transfer in WS₂ Nanoparticle Additives, C. Drummond, N.A. Alcantar, J. Israelachvili, R. Tenne, and Y. Golan, *Adv. Funct. Mater.* **11**, 348-354 (2001).
156. Diamond/CdTe: a new inverted heterojunction CdTe thin film solar cell, P. von Huth, J.E. Butler and R. Tenne, *Solar Energ. Mater. Solar Cells* **69**, 381-388 (2001).
157. Investigation of the Non-Stoichiometric Tungsten Oxide Nanoparticles, G.L. Frey, A. Rothschild, J. Sloan, R. Rosentsveig, R. Popovitz-Biro and R. Tenne, *J. Sol. State Chem.*, **162**, 300-314 (2001).
158. Experimental Evidence of Surface Modes Coupling in Anisotropic Hollow Nanoparticles, M. Kociak, O. Stephan, L. Henrard, V. Charbois, A. Rothschild, R. Tenne, and C. Colliex, *Phys. Rev. Lett.* **87**, 075501-1-4 (2001).
159. The Effect of a Substrate Topography on the Local Electronic Structure of WS₂ Nanotubes, O. Tal, M. Remskar, R. Tenne, and G. Haase, *Chem. Phys. Lett.* **344**, 434-440 (2001).
160. Load Bearing Capacity of Bronze, Iron and Iron-Nickel Powder Composites Containing Fullerene-Like WS₂ Nanoparticles, L. Rapoport, V. Leshchinsky, M. Lvovsky, I. Lapsker, Yu Volovik, and R. Tenne, *Tribology Intl.* **35**, 47-53 (2002).
161. The Inverted p-Diamond/n-CdTe Heterojunction Solar Cell, P. von Huth, J.E. Butler, W. Jaegermann, and R. Tenne, *J. Electrochem. Soc.* **149**, G55-G62 (2002).

162. WS₂ Nanotube Bundles and Foils, R. Rosentsveig, A. Margolin, Y. Feldman, R. Popovitz-Biro and R. Tenne, *Chem. Mater.* **14**, 471-473 (2002).
163. Alkali Metal Intercalated Fullerene-Like MS₂ (M=W,Mo) Nanoparticles and their Properties, A. Zak, Y. Feldman, H. Cohen, V. Lyakhovitskaya, G. Leituss, R. Popovitz-Biro, S. Reich, and R. Tenne, *J. Am. Chem. Soc.* **124**, 4747-4758 (2002).
164. Stability of Metal Chalcogenide Nanotubes, G. Seifert, Th. Köhler, and R. Tenne, *J. Phys. Chem. B* **106**, 2497-2501 (2002).
165. Friction and Wear of Powdered Composites Impregnated with WS₂ Inorganic Fullerene-Like Nanoparticles, L. Rapoport, V. Leshchinsky, M. Lvovsky, O. Nepomnyashchy, Yu Volovik, and R. Tenne, *Wear* **252**, 518-527 (2002).
166. Equilibrium Structure of Multilayer van der Waals Films and Nanotubes, M. I. Mendelev and D. J. Srolovitz. S.A. Safran and R. Tenne, *Phys. Rev. B*, **65**, 075402-075414 (2002).
167. Self-Lubricating Bearing Composites Impregnated with WS₂ Fullerene-Like Nanoparticles, V. Leshchinsky, E. Alyoshina, M. Lvovsky, Y. Volovik, R. Tenne, and L. Rapoport, *Int. J. Powder Metallurgy* **38**, 50-57 (2002).
168. Synthesis of NbS₂ Nanoparticles with (Nested) Fullerene-Like Structure (IF), C. Schuffenhauer, R. Popovitz-Biro, and R. Tenne, *J. Mater. Chem.* **12**, 1587-1591 (2002).
169. Scanning Tunneling Microscopy Study of WS₂ Nanotubes, L. Scheffer, R. Rosentsveig, A. Margolin, R. Popovitz-Biro, G. Seifert, S.R. Cohen and R. Tenne, *Phys. Chem. Chem. Phys.* **4**, 2095-2098 (2002).
170. Vapor-Liquid-Solid (VLS) Growth of NiCl₂ Nanotubes via Reactive Gas Laser Ablation, Y. Rosenfeld Hacohen, R. Popovitz-Biro, E. Grunbaum, Y. Prior, and R. Tenne, *Adv. Mater.* **14**, 1075-1078 (2002).
171. Raman Scattering from the Peroxide Ion in Cs₂O₂, T. Livneh, A. Band and R. Tenne, *J. Raman Spect.*, **33**, 675-676 (2002).
172. Mechanisms of Ultra-Low Friction by Hollow Inorganic Fullerene-like MoS₂ Nanoparticles, L. Cizaire, B. Vacher, T. Le-Mogne, J.M. Martin, L. Rapoport, A. Margolin, and R. Tenne, *Surf. & Coat. Technol.* **160**, 282-287 (2002).
173. Wear and Friction of Ni-P Electroless Composite Coating Including Inorganic Fullerene-Like WS₂ Nanoparticles, W. X. Chen, Z. D. Xu, R. Tenne, R. Rosentsveig, W. L. Chen, H. Y. Gan, J. P. Tu, *Adv. Eng. Mater.* **4**, 686-690 (2002).
174. Preparation and Tribological Properties of Ni-P Electroless Composite Coating Containing Inorganic Fullerene-Like WS₂ Nanomaterials, W.X. Chen, Z.D. Xu, J.P. Tu, W.L. Chen, J.G. Wang, D.H. Cheng, J.B. Xia, H.Y. Gan, Y.X. Jin, X.C. Ma, R. Tenne and R. Rosentsveig, *Acta Chemica Sinica* (in Chinese) **60**, 1722-1726 (2002).
175. Mechanism of Friction of Fullerenes, L. Rapoport, V. Leshchinsky, M. Lvovsky, O. Nepomnyashchy, Y. Volovik, and R. Tenne, *Ind. Lubr. Tribol.* **54**, 171-176 (2002).
176. Modification of Contact Surfaces by Fullerene-like Solid Lubricant Nanoparticles, L. Rapoport, V. Leshchinsky, Yu. Volovik, M. Lvovsky, O. Nepomnyashchy, Y. Feldman, R. Popovitz-Biro, and R. Tenne, *Surf. & Coat. Technol.* **163-164**, 405-412 (2003).
177. Characterization of Nested Hollow Inorganic Fullerene-like Tungsten Disulfide Nanoparticles Prepared by Solid-Gas Reaction, W.X. Chen, Z.D. XU, J. P. Tu, R. Rosentsveig, R. Tenne, *Chinese Chem. Lett.* **14**, 312 (2003).
178. Shock-wave resistance of WS₂ nanotubes, Y.Q. Zhu, T. Sekine, K.S. Brigatti, S. Firth, R. Tenne, R. Rosentsveig, H.W. Kroto, and D.R.M. Walton, *J. Am. Chem. Soc.* **125**, 1329-1333 (2003).
179. Tribological Properties of WS₂ Nanoparticles under Mixed Lubrication, L. Rapoport, V. Leshchinsky, I. Lapsker, Yu Volovik, M. Lvovsky, R. Popovitz-Biro, Y. Feldman and R. Tenne, *Wear* **255**, 785-793 (2003).
180. Superior Tribological Properties of Powder Materials with Solid Lubricant Nanoparticles, L. Rapoport, V. Leshchinsky, M. Lvovsky, I. Lapsker, Yu Volovik, Y. Feldman, R. Popovitz-Biro, and R. Tenne, *Wear* **255**, 794-800 (2003).
181. Synthesis of NiCl₂ Nanotubes and Fullerene-Like Structures by Laser Ablation, Y. Rosenfeld Hacohen, R. Popovitz-Biro, Yehiam Prior, S. Gemming, G. Seifert, and R. Tenne, *Phys. Chem. Chem. Phys.* **5**, 1644-1651 (2003).
182. CdI₂ Nanoparticles with Closed-Cage (Fullerene-Like) Structures, R. Popovitz-Biro, N. Sallacan, and R. Tenne, *J. Mater. Chem.* **13**, 1631-1634 (2003).
183. Use of Functionalized WS₂ Nanotubes to Produce New Polystyrene/Polymethylmethacrylate Nanocomposites, W. Zhang, S. Ge, Y. Wang, M.H. Rafailovich, O. Dhez, D.A. Winesett, H. Ade, Kurikka V.P.M. Shafi, A. Ulman, R. Popovitz-Biro, R. Tenne, J. Sokolov, *Polymer* **44**, 2109-2115 (2003).
184. Evidence for Dry Deintercalation in Layered Compounds upon Controlled Surface Charging in X-Ray Photoelectron Spectroscopy, Y. Feldman, A. Zak, R. Tenne and H. Cohen, *J. Vac. Sci. Tech. A* **21**, 1752-1758 (2003).
185. Synthesis of SnS₂/SnS Fullerene-Like Nanoparticles: Superlattice with Polyhedral Shape, S.Y. Hong, R. Popovitz-Biro, Y. Prior and R. Tenne, *J. Am. Chem. Soc.* **125**, 10470-10474 (2003).
186. Nanoparticles of CdI₂ with Closed Cage Structures Obtained via Electron Beam Irradiation, N. Sallacan, R. Popovitz-Biro, and R. Tenne, *Solid State Sci.* **5**, 905-908 (2003).
187. Mechanical Behavior of Individual WS₂ Nanotubes, I. Kaplan-Ashiri, S.R. Cohen, K. Gartsman, R. Rosentsveig, G. Seifert, and R. Tenne, *J. Mater. Res.* **19**, 454-459 (2004).

188. Polymer Nanocomposites with Fullerene-Like Solid Lubricant, L. Rapoport, O. Nepomnyashchy, R. Popovitz-Biro, Yu Volovik, B. Ittah, and R. Tenne, *Adv. Eng. Mater.* **6**, 44-48 (2004).
189. The Effect of WS₂ Nanoparticles on Friction Reduction in Various Lubrication Regimes., R. Greenberg, G. Halperin, I. Etsion, and R. Tenne, *Tribology Lett.* **17**, 179-186 (2004).
190. Study of the Growth Mechanism of WS₂ Nanotubes Produced by the Fluidized Bed Reactor, A. Margolin, R. Rosentsveig, A. Albu-Yaron, R. Popovitz-Biro and R. Tenne, *J. Mater. Chem.* **14**, 617-624 (2004).
191. Nanoparticles Produced by Laser Ablation of HfS₃ in Liquid Medium: Inorganic Fullerene-Like Structures of Hf₂S, M. Nath, C.N.R. Rao, R. Popovitz-Biro, A. Albu-Yaron, and R. Tenne, *Chem. Mater.* **16**, 2238-2243 (2004).
192. How Stable are Inorganic Fullerene-Like Particles? – Thermal Analysis (STA) of Inorganic Fullerene-Like NbS₂, MoS₂, and WS₂ in Oxidizing and Inert Atmosphere in Comparison with the Bulk Material, C. Schuffenhauer, G. Wildermuth, J. Felsche, and R. Tenne, *Phys.Chem.Chem.Phys.* **6**, 3991-4002 (2004).
193. Behavior of Solid Lubricant Nanoparticles under Compression, V. Leshchinsky, R. Popovitz-Biro, K. Gartsman, A. Verdyan, Yu. Rosenberg, R. Tenne, L. Rapoport, *J. Mater. Sci.* **39**, 4119-4129 (2004).
194. Characterization of Oxides of Cesium, A. Band, A. Albu-Yaron, T. Livneh, H. Cohen, Y. Feldman, L. Shimon, R. Popovitz-Biro, V. Lyahovitskaya, and R. Tenne, *J. Phys. Chem. B* **108**, 12360-12367 (2004).
195. Electron Microscopy, Spectroscopy and First Principles Calculations of Cs₂O, S. Gemming, G. Seifert, C. Mühle, M. Jansen, A. Albu-Yaron, T. Arad, and R. Tenne, *J. Solid State Chem.* **178**, 1190-1196 (2005).
196. Friction and Wear of Fullerene-Like WS₂ under Severe Contact Conditions: Friction of Ceramic Materials, L. Rapoport, O. Nepomnyashchy, I. Lapsker, A. Verdyan, Y. Soifer, R. Popovitz-Biro and R. Tenne, *Tribol. Lett.* **19**, 143-149 (2005).
197. Preparation and Structural Characterization of Stable Cs₂O Closed-Cage Structures, A. Albu-Yaron, T. Arad, R. Popovitz-Biro, M. Bar-Sadan, Yehiam Prior, M. Jansen and R. Tenne, *Angew. Chem. Int. Ed.* **44**, 4169-4172 (2005).
198. Fullerene-Like Nanoparticles of Titanium Disulfide, A. Margolin, R. Popovitz-Biro, A. Albu-Yaron, A. Moshkovith, L. Rapoport, and R. Tenne, *Current Nanoscience* **1**, 253-262 (2005).
199. Inorganic Fullerene-Like Nanoparticles of TiS₂, A. Margolin, R. Popovitz-Biro, A. Albu-Yaron, A. Moshkovith, L. Rapoport, and R. Tenne, *Chem. Phys. Lett.* **411**, 162-166 (2005).
200. Behavior of Fullerene-Like WS₂ Nanoparticles Under Severe Contact Conditions, L. Rapoport, O. Nepomnyashchy, I. Lapsker, A. Verdyan, A. Moshkovith, Y. Feldman, R. Tenne, *Wear* **259** 703-707 (2005).
201. Synthesis of Fullerene-Like Tantalum Disulfide Nanoparticles by Gas Phase Reaction and Laser Ablation, C. Schuffenhauer, B.A. Parkinson, N.Y. Jin-Phillip, M. Rühle, L. Joly-Pottuz, J.-M. Martin, R. Popovitz-Biro, and R. Tenne, *Small* **1**, 1100-1109 (2005).
202. Nanowire Acting as a Superconducting Quantum Interference Device, A. Johansson, G. Sambandamurthy, D. Shahar, N.-L. Jacobson, and R. Tenne, *Phys. Rev. Lett.* **95**, 116805 (2005).
203. Orientation Dependence of the Polarizability of an Individual WS₂ Nanotube by Resonant Raman Spectroscopy, P.M. Rafailov, C. Thomsen, K. Gartsman, I. Kaplan-Ashiri, and R. Tenne, *Phys. Rev. B* **72**, No. 205436 (2005).
204. Shock-Absorbing and Failure Mechanism of WS₂ and MoS₂ Nanoparticles with Fullerene-Like Structure Under Shockwave Pressures, Y.Q. Zhu, T. Sekine, Y.H. Li, M.W. Fay, Y.M. Zhao, C.H. Patrick Poa, W.X. Wang, R. Martin, P.D. Brown, N. Fleischer, and R. Tenne, *J. Am. Chem. Soc.*, **127** 16263-16272 (2005).
205. WS₂ and MoS₂ Inorganic Fullerenes: Super Shock Absorber at Very High Pressures, Y.Q. Zhu, T. Sekine, Y. H. Li, M. Fay, W. X. Wang, H. Edwards, P.D. Brown, N. Fleischer and R. Tenne, *Adv. Mater.*, **17**, 1500-1503 (2005). See also, Composites in Armor, P.J. Hogg, *Science (Perspective Sec.)* **314**, 1100 (2006).
206. On the Mechanical Behavior of WS₂ Nanotubes Under Axial Tension and Compression, I. Kaplan-Ashiri, S.R. Cohen, K. Gartsman, V. Ivanovskaya, T. Heine, G. Seifert, I. Wiesel, H.D. Wagner and R. Tenne, *Proc. Natl. Acad. Sci. US* **103**, 523-528 (2006).
207. Dynamics of Bulk versus Nanoscale WS₂: Local Strain and Charging Effects, R.D. Luttrell, S. Brown, J. Cao, J.L. Musfeldt, R. Rosentsveig, and R. Tenne, *Phys. Rev. B* **73**, No. 035410 (2006).
208. Nuclear Magnetic Resonance Study of Fullerene-Like WS₂, A. M. Panich, F. Kopnov and R. Tenne, *J. Nanosci. Nanotech.* **6**, 1678-1683 (2006).
209. Self-Lubricating Coatings Containing Fullerene-Like WS₂ Nanoparticles for Orthodontic Wires and Other Possible Medical Applications, A. Katz, M. Redlich, L. Rapoport, H.D. Wagner and R. Tenne, *Tribol. Lett.* **21**, 135-139 (2006).
210. Transport Properties of Fullerene-Like WS₂ Nanoparticles, F. Kopnov, A. Yoffe, G. Leituss, and R. Tenne, *Phys. Stat. Solidi B* **243**, 1229-1240 (2006).
211. A New Way to Feed Nanoparticles to Friction Interfaces, V. Perfiliev, A. Moshkovith, A. Verdyan, R. Tenne, and L. Rapoport, *Tribol. Lett.* **21**, 89-93 (2006).
212. A Simple Hydrothermal Method for the Growth of Bi₂Se₃ Nanorods J. R. Ota, P. Roy, S.K. Srivastava, R. Popovitz-Biro and R. Tenne, *Nanotechnology*, **17** 1700-1705 (2006).
213. Observation of Current Reversal in the Scanning Tunneling Spectra of Fullerene-Like WS₂ Nanoparticles, D. Azulay, F. Kopnov, R. Tenne, I. Balberg and O. Millo, *NanoLett.* **6**, 760-764 (2006).

214. Closed-Cage (Fullerene-Like) Structures of NiBr₂, M. Bar-Sadan, R. Popovitz-Biro, Yehiam Prior and R. Tenne, *Mater. Res. Bull.* **41**, 2137-2146 (2006).
215. Synthesis of Fullerene-Like Cs₂O Nanoparticles by Concentrated Sunlight, A. Albu-Yaron, T. Arad, R. Tenne, M. Levy, R. Popovitz-Biro, J.M. Gordon, D. Feuermann, E.A. Katz, M. Jansen and C. Mühle, *Adv. Mater.* **18**, 2993- 2996 (2006).
216. MoS₂ Fullerene-Like Nanoparticles and Nanotubes Using Gas Phase Reaction with MoCl₅, F.L. Deepak, A. Margolin, M. Bar-Sadan, R. Popovitz-Biro and R. Tenne, *Nano* **1**, 167-180 (2006).
217. Structure and Stability of Molybdenum Sulfide Fullerenes, M. Bar-Sadan, A.N. Enyashin, S. Gemming, R. Popovitz-Biro, S.Y. Hong, Yehiam Prior, G. Seifert and R. Tenne, *J. Phys. Chem. B* **110**, 25399-25410 (2006).
218. Sedimentation of IF-WS₂ Aggregates and a Reproducibility of the Tribological Data, A. Moshkovith, V. Perfiliev, A. Verdyan, R. Popovitz-Biro, R. Tenne, L. Rapoport, *Tribol. Int.* **40**, 117-124 (2007).
219. Structure and Stability of Molybdenum Sulfide Fullerenes, A.N. Enyashin, S. Gemming, M. Bar-Sadan, R. Popovitz-Biro, S.Y. Hong, Y. Prior, R. Tenne, and G. Seifert, *Angew. Chem. Int. Ed.* **46**, 623-627 (2007). See also highlight by *Chem. & Eng. News*, 22.1.07 issue, 5, **36** (2007).
220. Fabrication of Self-Lubricating Cobalt Coatings on Metal Surfaces, H. Friedman, O. Eidelman, Y. Feldman, A. Moshkovith, V. Perfiliev, L. Rapoport, A. Yoffe and R. Tenne, *Nanotechnol.* **18**, 115703 (2007).
221. Microscopic Investigation of Shear in Multiwalled Nanotube Deformation, I. Kaplan-Ashiri, S.R. Cohen, Y. Wang, G. Seifert, H.D. Wagner, and R. Tenne, *J. Phys. Chem. C*, **111**, 8432-8436 (2007).
222. Characterization of Geoinspired and Synthetic Chrysotile Nanotubes by Atomic Force Microscopy and Transmission Electron Microscopy, S. Piperno, I. Kaplan-Ashiri, S.R. Cohen, R. Popovitz-Biro, D.H. Wagner, R. Tenne, E. Foresti, I.G. Lesci, and N. Roveri, *Adv. Funct. Mater.*, **17**, 3332-3338 (2007).
223. Bulk vs. Nanoscale WS₂: Finite Size Effects and Solid-State Lubrication, S. Brown, J.L. Musfeldt, I. Mihut, J.B. Betts, A. Migliori, A. Zak, and R. Tenne, *NanoLett.* **7**, 2365-2369 (2007).
224. On the Efficacy of IF-WS₂ Nanoparticles as Solid Lubricant: The Effect of the Loading Scheme, L. Rapoport, A. Moshkovith, V. Perfiliev, and R. Tenne, *Tribol. Lett.* **28**, 81-87 (2007).
225. Fullerene-Like (IF) Nb_xMo_{1-x}S₂ Nanoparticles, F.L. Deepak, H. Cohen, S.R. Cohen, Y. Feldman, R. Popovitz-Biro, D. Azulay, O. Millo, and R. Tenne, *J. Am. Chem. Soc.* **129**, 12549-12562 (2007).
226. Singular MoS₂, SiO₂ and Si Nanostructures- Synthesis by Solar Ablation, J.M. Gordon, E.A. Katz, D. Feuermann, A. Albu-Yaron, M. Levy and R. Tenne, *J. Mater. Chem.* **18**, 458-462 (2008).
227. Fullerene-Like (IF) WS₂ Nanoparticles and Nanotubes by the Vapor-Phase Synthesis of WCl_n and H₂S, A. Margolin, F. L. Deepak, R. Popovitz-Biro, M. Bar-Sadan, Y. Feldman, and R. Tenne, *Nanotechnol.* **19**, 095601 (2008).
228. Toward Atomic-Scale Bright-Field Electron Tomography for the Study of Fullerene-Like Nanostructures, M. Bar-Sadan, L. Houben, S.G. Wolf, A. Enyashin, G. Seifert, R. Tenne, and K. Urban, *NanoLett.* **8**, 891-896 (2008). See also Highlight by *Nature Mater.* **7**, 169 (2008).
229. Intercalation of Alkali Metal in WS₂ Nanoparticles, revisited, F. Kopnov, Y. Feldman, R. Popovitz-Biro, A. Vilan, H. Cohen, A. Zak and R. Tenne, *Chem. Mater.* **20**, 4099-4105 (2008).
230. Improved Orthodontic Stainless-Steel Wires Coated with Inorganic Fullerene-Like Nanoparticles of WS₂ Impregnated in Electroless Nickel-Phosphorous Film, M. Redlich, A. Katz, L. Rapoport, H.D. Wagner, Y. Feldman and R. Tenne, *Dental Mater.* **24**, 1640-1646 (2008).
231. X-Ray Photoelectron Spectroscopy and Tribological Studies of Annealed Fullerene-Like WS₂ Nanoparticles, B. Späth, F. Kopnov, H. Cohen, A. Zak, A. Moshkovith, L. Rapoport, W. Jeagermann and R. Tenne, *Phys. Stat. Solid. B* **245**, 1779-1784 (2008).
232. In Situ TEM Measurements of the Mechanical Properties and Behavior of WS₂ Nanotubes, M.S. Wang, I. Kaplan-Ashiri, X.L. Wei, R. Rosentsveig, H.D. Wagner, S.R. Cohen, R. Tenne, and L.-M. Peng, *Nano Res.* **1**, 22-31 (2008).
233. Atom by Atom: HRTEM Insights into Inorganic Nanotubes and Fullerene-Like Structures, M. Bar-Sadan, L. Houben, A. Enyashin, G. Seifert, and R. Tenne, *Proc. Natl. Acad. Sci. US* **105**, 15643-15648 (2008); Feature article & Cover page.
234. Reactive and Non-Reactive Interactions of Thiophene with WS₂ Fullerene-Like Nanoparticles: an Ultra-High Vacuum Surface Chemistry Study, J. Goering, U. Burghaus, B.W. Bruce, O. Eidelman, A. Zak, R. Tenne, *Catal. Lett.* **125**, 236-242 (2008).
235. Friction Reduction and Wear Resistance of Electro-Co-deposited Inorganic Fullerene-like WS₂ Coating for Improved Orthodontic Stainless-Steel Wires, M. Redlich, A. Gorodnev, Y. Feldman, I. Kaplan-Ashiri, R. Tenne, N. Fleischer, M. Genut and N. Feuerstein, *J. Mater. Res.* **23**, 2909-2915 (2008).
236. ZnO Nanowire and WS₂ Nanotube Electronics, H.E. Unalan, Y. Yang, Y. Zhang, P. Hiralal, D. Kuo, S. Dalal, T. Butler, S.N. Cha, J.E. Jang, K. Chremmou, G. Lentaris, D. Wei, R. Rosentsveig, K. Suzuki, H. Matsumoto, M. Minagawa, Y. Hayashi, M. Chhowalla, A. Tanioka, W.I. Milne, R. Tenne, and G.A.J. Amaratunga, *IEEE Trans. Elect. Dev.* **55**, 2988-3000 (2008).

237. Torsional Stick-Slip Behavior in WS₂ Nanotubes, K.S. Nagapriya, O. Goldbart, I. Kaplan-Ashiri, G. Seifert, R. Tenne and E. Joselevich, *Phys. Rev. Lett.* **101**, 195501 (2008).
238. Core-Shell PbI₂@WS₂ Nanotubes from Capillary Wetting, R. Kreizman, S.-Y. Hong, J. Sloan, R. Popovitz-Biro, A. Albu-Yaron, G. Tobias, B. Ballesteros, B.G. Davis, M.L.H. Green, and R. Tenne, *Angew. Chem. Int. Ed.* **48**, 1230-1233 (2009). Highlight of the issue. Among most accessed articles 08-09 of the journal http://www3.interscience.wiley.com/journal/26737/home/2002_mostaccessed_all.html.
239. Toughening of Epoxy Adhesives by Nanoparticles, A. Buchman, H. Dodiuk-Kenig, A. Dotan, R. Tenne and S. Kenig, *J. Adhesion Sci. Tech.* **23**, 753-768 (2009).
240. Synthesis of Fullerene-Like MoS₂ Nanoparticles and Their Tribological Behavior, R. Rosentsveig, A. Margolin, A. Gorodnev, R. Popovitz-Biro, Y. Feldman, L. Rapoport, G.R. Samorodnitzky-Naveh, and R. Tenne, *J. Mater. Chem.* **19**, 4368-4374 (2009).
241. Insight into the Growth Mechanism of WS₂ Nanotubes in the Scaled-Up Fluidized Bed Reactor, A. Zak, L. Sallacan-Ecker, A. Margolin, M. Genut and R. Tenne, *Nano* **4**, 91-98 (2009).
242. Synthesis of WS₂ and MoS₂ Fullerene-Like Nanoparticles from Solid Precursors, I. Wiesel, H. Arbel, A. Albu-Yaron, R. Popovitz-Biro, J.M. Gordon, D. Feuermann and R. Tenne, *Nano Res.* **2**, 416-424 (2009).
243. Fullerene-Like MoS₂ Nanoparticles and Their Tribological Behavior, R. Rosentsveig, R. Tenne, A. Gorodnev, N. Feuerstein, H. Friedman, N. Fleischer, J. Tannous and F. Dassenoy, *Tribol. Lett.* **36**, 175-182 (2009).
244. A Magnetic Resonance Study of MoS₂ Fullerene-Like Nanoparticles, A. M. Panich, A. I. Shames, R. Rosentsveig, R. Tenne, *J. Phys. Cond. Matt.* **21**, 395301 (2009).
245. The Effect of Tungsten Sulfide Fullerene-Like Nanoparticles on the Toughness of Epoxy Adhesives, M. Shneider, H. Dodiuk, S. Kenig and R. Tenne, *J. Adh. Sci. & Technol.* **24**, 1083-1095 (2010).
246. Surface Functionalization of WS₂ Fullerene-Like Nanoparticles, C. Shahar, D. Zbaida, L. Rapoport, H. Cohen, T. Bendikov, J. Tannous, F. Dassenoy, and R. Tenne, *Langmuir* **26**, 4409-4414 (2010).
247. Gold Nanoparticles as Surface Defect Probes for WS₂ Nanostructures, C. Shahar, R. Levi, S.R. Cohen and R. Tenne, *J. Phys. Chem. Lett.* **1**, 540-543 (2010).
248. Synthesis and Characterization of WS₂ Inorganic Nanotubes with Encapsulated/Intercalated CsI, S.Y. Hong, R. Popovitz-Biro, G. Tobias, B. Ballesteros, B.G. Davis, M.L.H. Green, and R. Tenne, *Nano Res.* **3**, 170-173 (2010).
249. Towards Medical Applications of Self-Lubricating Coatings with Fullerene-Like (IF) WS₂ Nanoparticles, G. Naveh, M. Redlich, A. Katz, A.R. Adini, A. Gorodnev, L. Rapoport, A. Moshkovith, S.R. Cohen, R. Rosentsveig, J. Moshonov, B. Shay, and R. Tenne, *J. Nano Biomater.* **3**, 140-152 (2010).
250. Inorganic Fullerene-Like Tungsten Disulphide Nanocoating for Friction Reduction of Nickel-Titanium Alloys, G.R. Samorodnitzky-Naveh, M. Redlich, L. Rapoport, Y. Feldman and R. Tenne, *Nanomedicine* **4**, 943-950 (2009).
251. Synthesis of Core-Shell Inorganic Nanotubes, R. Kreizman, A.N. Enyashin, F.L. Deepak, A. Albu-Yaron, R. Popovitz-Biro, G. Seifert and R. Tenne, *Adv. Funct. Mater.* **20**, 2459-2468 (2010). See highlights in *ACS Nano* **4**, 5517 (2010).
252. The Effect of WS₂ Nanotubes on the Properties of Epoxy-Based Nanocomposites, E. Zohar, S. Baruch, M. Shneider, H. Dodiuk, S. Kenig, R. Tenne and H.D. Wagner, *J. Adh. Sci. & Technol.* **25**, 1603-1617 (2011).
253. Hollow V₂O₅ Nanoparticles (Fullerene-Like Analogues) Prepared by Pulsed Laser Ablation, R. Levi, M. Bar-Sadan, A. Albu-Yaron, R. Popovitz-Biro, L. Houben, C. Shahar, A. Enyashin, G. Seifert, Yehiam Prior and R. Tenne, *J. Am. Chem. Soc.* **132**, 11214-11222 (2010).
254. Nanocompression of Individual Multilayered Polyhedral Nanoparticles, O. Tevet, O. Goldbart, D.H. Wagner, S.R. Cohen, R. Rosentsveig, R. Popovitz-Biro and R. Tenne, *Nanotechnology* **21** 365705 (2010).
255. MoS₂ Hybrid Nanostructures: From Octahedral to Quasi-Spherical Shells Within Individual Nanoparticles, A. Albu-Yaron, M. Levy, R. Tenne*, R. Popovitz-Biro, M. Weidenbach, M. Bar-Sadan, L. Houben, A.N. Enyashin, G. Seifert, D. Feuermann, E.A. Katz and J.M. Gordon*, *Angew. Chem. Int. Ed.* **50**, 1810-1814 (2011).
256. Biocompatible Inorganic Fullerene-Like Molybdenum Disulfide Nanoparticles Produced by Pulsed Laser Ablation in Water, H. Wu, R. Yang, B. Song, Q. Han, J. Li, Y. Zhang, Y. Fang, R. Tenne and C. Wang, *ACS Nano* **5**, 1276-1281 (2011).
257. Scaling Up of the WS₂ Nanotubes Synthesis, A. Zak, L. Sallacan-Ecker, A. Margolin, Y. Feldman, R. Popovitz-Biro, A. Albu-Yaron, M. Genut and R. Tenne, *Fullerenes, Nanotubes, and Carbon Nanostructures* **19**, 18-26 (2011).
258. Alleviating Fatigue and Failure of NiTi Endodontic Files by a Coating Containing Inorganic Fullerene-Like WS₂ Nanoparticles, A.R. Adini, Y. Feldman, S.R. Cohen, L. Rapoport, A. Moshkovith, M. Redlich, Y. Moshonov, B. Shay and R. Tenne, *J. Mater. Res.* **26**, 1234-1242 (2011).
259. The Use of Functionalized Nanoparticles as Non-Specific Compatibilizers for Polymer Blends, W. Zhang, M. Lin, A. Winesett, O. Dhez, A.L.D. Kilcoyne, H. Ade, M. Rubinstein, K.V.P.M. Shafi, A. Ulman, D. Gersappe, R. Tenne, M. Rafailovich, J. Sokolov and H. L. Frisch, *Polym. Adv. Technol.* **22** 65-71 (2011).

260. Chromium-Rich Coatings with WS₂ Nanoparticles Containing Fullerene-Like Structure, O. Eidelman, H. Friedman, R. Rosentsveig, A. Moshkovith, V. Perfiliev, S.R. Cohen, Y. Feldman, L. Rapoport and R. Tenne, *Nano*, **6**, 313-324 (2011).
261. The Mechanical and Tribological Properties of Epoxy Nanocomposites with WS₂ Nanotubes, E. Zohar, S. Baruch, M. Shneider, H. Dodiuk, S. Kenig, H.D. Wagner, A. Zak, A. Moshkovith, L. Rapoport and R. Tenne, *J. Sensors & Transducers* **12**, 53-65 (2011).
262. Large-Scale Synthesis of WS₂ Multiwall Nanotubes and their Dispersion, an Update, A. Zak, L. Sallacan Ecker, R. Efrati, L. Drangai, N. Fleischer and R. Tenne, *J. Sensors & Transducers (Sensors & Transducers; Toronto)* **12**, 1-10 (2011).
263. Synthesis of Copious Amounts of SnS₂ and SnS₂/SnS Nanotubes with Ordered Superstructures, G. Radovsky, R. Popovitz-Biro, M. Staiger, K. Gartsman, C. Thomsen, T. Lorenz, G. Seifert and R. Tenne, *Angew. Chem. Int. Ed.* **50**, 12316-12320 (2011).
264. Friction Mechanism of Individual Multilayered Nanoparticles, O. Tevet, P. von-Hute, R. Popovitz-Biro, R. Rosentsveig, H. D. Wagner and R. Tenne, *Proc. Natl. Acad. Sci. US (PNAS)* **108**, 19901-19906 (2011); Highlight by *Nano Today* **7**, 1-5 (2012).
265. High Lubricity of Re-Doped Fullerene-Like MoS₂ Nanoparticles, L. Rapoport, A. Moshkovich, V. Perfiliev, A. Laikhtman, I. Lapsker, L. Yadgarov, R. Rosentsveig and R. Tenne, *Trib. Lett.* **45**, 257-264 (2012).
266. Controlled Doping of MS₂ (M=W, Mo) Nanotubes and Fullerene-Like Nanoparticles, L. Yadgarov, R. Rosentsveig, G. Leitun, A. Albu-Yaron, A. Moshkovith, V. Perfiliev, R. Vasic, A. I. Frenkel, A.N. Enyashin, G. Seifert, L. Rapoport and R. Tenne, *Angew. Chem. Int. Ed.* **51**, 1148-1151 (2012).
267. New Route for Stabilization of 1T-WS₂ and MoS₂ Phases, A.N. Enyashin, L. Yadgarov, L. Houben, I. Popov, M. Weidenbach, R. Tenne, M. Bar-Sadan and G. Seifert, *J. Phys. Chem. C* **115**, 24586-24591 (2011).
268. Synthesis and Characterization of WS₂ Nanotube Supported Cobalt Catalyst for Hydrodesulfurization, Y. Tsverin, R. Popovitz-Biro, Y. Feldman, R. Tenne, M. Komarneni, Z. Yu, A. Chakradhar, A. Sand and U. Burghaus, *Mater. Res. Bull.* **47**, 1653-1660 (2012).
269. Semiconductor Quantum Dot-Inorganic Nanotube Hybrids, R. Kreizman, O. Schwartz, Z. Deutsch, S. Itzhakov, A. Zak, S.R. Cohen, R. Tenne and D. Oron, *Phys.Chem.Chem.Phys.* **14**, 4271-4275 (2012).
270. High-Performance Photodetectors for Visible and Near-Infrared Lights Based on Individual WS₂ Nanotubes, C. Zhang, S. Wang, L. Yang, Y. Liu, T. Xu, Z. Ning, A. Zak, Z. Zhang, R. Tenne and Q. Chen, *Appl. Phys. Lett.* **100**, 243101 (2012).
271. Study of Tubular Structures of the Misfit Layered Compound SnS₂/SnS, G. Radovsky, R. Popovitz-Biro and R. Tenne, *Chem. Mater.* **24**, 3004-3015 (2012).
272. Photocatalysis with Hybrid Co-Coated WS₂ Nanotubes, Y. Tsverin, T. Livneh, I. Pinkas and R. Tenne, *Nanomater. & Energ.* **2**, 27-36 (2013).
273. Characterization of Ni Coated WS₂ Nanotubes for Hydrodesulfurization Catalysis, M.R. Komarneni, Z. Yu, U. Burghaus, Y. Tsverin, A. Zak, Y. Feldman and R. Tenne, *Isr. J. Chem.* **52**, 1053-1062 (2012).
274. New High-Temperature Pb-Catalyzed Synthesis of Inorganic Nanotubes, O. Brontvein, D.G. Stroppa, A. Albu-Yaron, M. Levy, D. Feuerman, L. Houben, R. Tenne* and J.M. Gordon, *J. Am. Chem. Soc.* **134**, 16379-16386 (2012); Spotlight of issue 43 in *JACS* (Dec. 2012).
275. Investigation of Rhenium Doped MoS₂ Nanoparticles with Fullerene-Like Structure (IF-MoS₂), L. Yadgarov, D.G. Stroppa, R. Rosentsveig, R. Ron, A.N. Enyashin, L. Houben and R. Tenne, *Zeitschrift für Anorganische und Allgemeine Chemie-ZAAC* **638**, 2610-2616 (2012).
276. Electrical Transport Properties of Individual WS₂ Nanotubes and their Dependence on Water and Oxygen Absorption, C. Zhang, Z. Ning, Y. Liu, T. Xu, Y. Guo, A. Zak, Z. Zhang, S. Wang, R. Tenne and Q. Chen, *Appl. Phys. Lett.* **101**, 113112 (2012).
277. Self-Healing of Bended WS₂ Nanotubes and its Effect on the Nanotube's Properties, T. Xu, Q. Chen, C. Zhang, K. Ran, J. Wang, R. Rosentsveig and R. Tenne, *Nanoscale* **4**, 7825-7831 (2012).
278. Tribological Studies of Rhenium Doped Fullerene-Like MoS₂ Nanoparticles in Boundary, Mixed and Elastohydrodynamic Lubrication Conditions, L. Yadgarov, V. Petrone, R. Rosentsveig, Y. Feldman, R. Tenne and A. Senatore, *Wear* **297**, 1103-1110 (2013). *Highly cited paper 2013-2016 (Wear)*
279. Nanoinduced Morphology and Enhanced Properties of Epoxy Containing Tungsten Disulfide Nanoparticles, M. Shneider, H. Dodiuk, R. Tenne and S. Kenig, *Polym. Eng. & Sci.* 2625- 2632 (2013). DOI 10.1002/pen.23517.
280. Encapsulation of Mo₂C in MoS₂ Inorganic Fullerene-Like Nanoparticles and Nanotubes, I. Wiesel, R. Popovitz-Biro and R. Tenne, *Nanoscale* **5**, 1499-1502 (2013).
281. Revealing the Anomalous Tensile Properties of WS₂ Nanotubes by in situ Transmission Electron Microscopy, D.-M. Tang, C. Nethravathi, X. Wei, M.-S. Wang, N. Kawamoto, Y. Bando, M. Mitome, A. Zak, R. Tenne and D. Golberg, *NanoLett.* **13**, 1034-1040 (2013).

282. Observation of a Burstein-Moss Shift in Re-Doped MoS₂ Nanoparticles, Q.-C. Sun, L. Yadgarov, R. Rosentsveig, G. Seifert, R. Tenne and J.L. Musfeldt, *ACS Nano* **7**, 3506-3511 (2013).
283. New Deposition Technique for Metal Films Containing Fullerene-Like (IF) Nanoparticles, O. Goldbart, A. Yoffe, S.R. Cohen, R. Rosentsveig, L. Rapoport and R. Tenne, *Chem.Phys.Chem.* **14**, 2125-2131(2013).
284. Spectroscopic Determination of Phonon Lifetimes in Rhenium-Doped MoS₂ Nanoparticles, Qi-C. Sun, D. Mazumdar, L. Yadgarov, R. Rosentsveig, R. Tenne and J.L. Musfeldt, *NanoLett.* **13**, 2803-2808 (2013).
285. Tribological Performance of the Epoxy-Based Composite Reinforced by WS₂ Fullerene-like Nanoparticles and Nanotubes, M. Shneider, L. Rapoport, A. Moshkovich, H. Dodiuk, S. Kenig, R. Tenne and A. Zak, *Phys. Stat. Solid. A* **210**, 2298-2306 (2013).
286. The Effect of Tungsten Disulphide Nanoparticles on the Properties of Polyurethane Adhesive, H. Dodiuk, O. Kariv, S. Kenig and R. Tenne, *J. Adh. Sci. & Technol.* **28**, 38-52 (2014).
287. A Nanocomposite of Polyaniline/Inorganic Nanotubes, A. Voldman, D. Zbaida, H. Cohen, G. Leituss and R. Tenne, *Macromol. Chem. Phys.* **214**, 2007-2015 (2013).
288. High-Yield Synthesis of Silicon Carbide Nanowires by Solar and Lamp Ablation, H.-B. Lu, B.C.Y. Chan, X. Wang, H.T. Chua, C.L. Raston, A. Albu-Yaron, M. Levy, R. Popovitz-Biro, R. Tenne, D. Feuermann, J.M. Gordon, *Nanotechnology* **24**, #335603 (2013).
289. Study of Urological Devices Coated with Fullerene-Like Nanoparticles, O. Goldbart, O. Elianov, D. Shumalinsky, L. Lobik, S. Cytron, R. Rosentsveig, H.D. Wagner and R. Tenne, *Nanoscale* **5**, 8526-8532 (2013).
290. Chemical Unzipping of WS₂ Nanotubes, C. Nethravathi, A.A. Jeffery, M. Rajamathi, N. Kawamoto, R. Tenne, D. Golberg and Y. Bando, *ACS Nano* **7**, 7311-7317 (2013).
291. Field-Effect Transistors Based on WS₂ Nanotubes with High Current Carrying Capacity, R. Levi, O. Bitton, G. Leituss, R. Tenne and E. Joselevich, *Nano Lett.* **13**, 3736-3741 (2013).
292. Nanotubes From Chalcogenide Misfit Compounds: Sn-S, Nb-Pb-S, G. Radovsky, R. Popovitz-Biro, D.G. Stroppa, L. Houben and R. Tenne, *Acc. Chem. Res.* **47**, 406-416 (2014).
293. Two-Step Synthesis of MoS₂ Nanotubes Using Shock Waves with Pb as Growth Promoter, O. Brontvein, V. Jayaram, K.P.J. Reddy, J.M. Gordon and R. Tenne, *Zeitschrift für Anorganische und Allgemeine Chemie-ZAAC* **640**, 1152-1158 (2014).
294. Fullerene-Like Mo(W)_{1-x}Re_xS₂ Nanoparticles, F.L. Deepak, R. Popovitz-Biro, Y. Feldman, H. Cohen, A. Enyashin, G. Seifert and R. Tenne, *Chem. Asian J.* **3**, 1568-1574 (2008).
295. WS₂ Nanoflakes from Nanotubes for Electrocatalysis, C. Choi, J. Feng, Y. Li, J. Wu, A. Zak, R. Tenne, H. Dai, *Nano Res.* **6**, 921-928 (2013).
296. Two-Steps Method for Preparation of Al₂O₃/IF-WS₂ Nanoparticles Composite Coating, J. Korzekwa, R. Tenne, W. Skoneczny and G. Dercz, *Phys. Stat. Solid. A* **210**, 2292-2297 (2013).
297. Decoration of WS₂ Inorganic Nanotubes and Fullerene-Like MoS₂ with Gold Nanoparticles, A.Yu. Polyakov, L. Yadgarov, R. Popovitz-Biro, V.A. Lebedev, I. Pinkas, R. Rosentsveig, Y. Feldman, A.E. Goldt, E.A. Goodilin and R. Tenne, *J. Phys. Chem. C* **118**, 2161-2169 (2014).
298. Enhanced Field Emission of WS₂ Nanotubes, G. Viskadourous, A. Zak, M. Stylianakis, E. Kymakis, R. Tenne, E. Stratakis, *Small* **10**, 2398-2403 (2014).
299. Dependence of the Absorption and Optical Surface Plasmon Scattering of MoS₂ Nanoparticles on Aspect Ratio, Size and Media, L. Yadgarov, C. Choi, A. Sedova, A. Cohen, R. Rosentsveig, O. Bar-Elli, D. Oron, H. Dai and R. Tenne, *ACS Nano* **8**, 3575-3583 (2014). See also: <https://advanceseng.com/nanotechnology-engineering/dependence-absorption-optical-surface-plasmon-scattering-mos2-nanoparticles-aspect-ratio-size-media/>
300. Attenuation of Encrustation by Self-Assembled Inorganic Fullerene-Like Nanoparticles, R. Ron, D. Zbaida, I. Kafka, R. Rosentsveig, I. Leibovitch and R. Tenne, *Nanoscale* **6**, 5251-5259 (2014). Highlighted in *Adv. in Eng.* (<https://advanceseng.com/>); UroToday (www.UroToday.com); Commentary in UroToday http://www.urotoday.com/index.php?option=com_content&Itemid=794&catid=1139&id=74097&lang=en&view=article
301. The Effect of Tungsten Disulphide Nanotubes on the Properties of Silicone Adhesives, G. Goldberg, H. Dodiuk, S. Kenig, R. Cohen and R. Tenne, *Intl. J. Adhesion and Adhesives* **55**, 77-81 (2014).
302. Lubricating Medical Devices with Fullerene-Like Nanoparticles, O. Goldbart, A. Sedova, L. Yadgarov, R. Rosentsveig, D. Shumalinsky, L. Lobik, H. D. Wagner and Reshef Tenne, *Tribol. Lett.* **55**, 103-109 (2014).
303. Single- to Triple-Wall WS₂ Nanotubes Obtained by High-Power Plasma Ablation of WS₂ Multiwall Nanotubes, V. Brüser, R. Popovitz-Biro, A. Albu-Yaron, T. Lorenz, G. Seifert, R. Tenne and A. Zak, *Inorganics* **2**, 177-190 (2014) doi:10.3390/inorganics2020177.
304. Theoretical Aspects of WS₂ Nanotube Chemical Unzipping, D.G. Kvashnin, L.Yu. Antipina, P.B. Sorokin, R. Tenne and D. Golberg, *Nanoscale* **6**, 8400-8404 (2014).
305. Lanthanide-Based Functional Misfit-Layered Nanotubes, L.S. Panchakarla, R. Popovitz-Biro, L. Houben, R.E. Dunin-Borkowski and R. Tenne, *Angew. Chem. Int. Ed.* **126**, 7040-7044 (2014).

306. Nanotubes from the Misfit Layered Compounds MS-TaS₂, where M= Pb, Sn, Sb and Bi: Synthesis and Study of their Structure, G. Radovsky, R. Popovitz-Biro and R. Tenne, *Chem. Mater.* **26**, 3757-3770 (2014).
307. Nanotubes from Misfit Layered Compounds: A New Family of Materials with Low Ddimensionality, L.S. Panchakarla, G. Radovsky, L. Houben, R. Popovitz-Biro, R.E. Dunin-Borkowski and R. Tenne, "Perspective" *J. Phys. Chem. Lett.* **5**, 3724-3736 (2014) with coverage.
308. Re-Doped Fullerene-Like MoS₂ Nanoparticles in Relationship with Soft Lubrication, A. Sedova, R. Ron, O. Goldbart, O. Elianov, L. Yadgarov, N. Kampf, R. Rosentsveig, D. Shumalinsky, L. Lobik, B. Shay, J. Moshonov, H.D. Wagner and R. Tenne, *Nanomater. & Energy* **4**, 30-38 (2014); doi.org/10.1680/nme.14.00020.
309. Biocompatibility of Tungsten Disulfide Inorganic Nanotubes on A5 Salivary Gland Cell Line, E. Goldman, A. Zak, R. Tenne, E. Kartvelishvily, Y. Neumann, A. Palmon, A.-H. Hovav, D.J Aframian, *Tissue Eng: Part A* **21**, 1013-1023 (2015).
310. Fullerene-Like Re-doped MoS₂ Nanoparticles as an Intercalation Host with Fast Kinetics for Sodium Ion Batteries, S.-H. Woo, L. Yadgarov, R. Rosentsveig, D. Song, Y. Park, S.-Y. Hong, R. Tenne* and K.-T. Lee, *Isr. J. Chem.* **55**, 599-603 (2015) DOI: 10.1002/ijch.201400124.
311. Direct Synthesis of Palladium Catalyst on Supporting WS₂ Inorganic Nanotubes and its Reactivity in Cross Coupling (Heck, Suzuki) Reactions, B. Visic, H. Cohen, R. Popovitz-Biro, R. Tenne, V.I. Sokolov, N.V. Abramova, A.G. Buyanovskaya, S.L. Dzvonkovskii and O.L. Lependina, *Chem.-an Asian J.* **10**, 2234-2239 (2015).
312. Solar Synthesis of PbS-SnS₂ Superstructure Nanoparticles, O. Brontvein, A. Albu-Yaron, M. Levy, D. Feuerman, R. Popovitz-Biro, R. Tenne, A. Enyashin and J.M. Gordon, *ACS Nano* **9**, 7831-7388 (2015).
313. Atomic Structural Studies on Thin Single-Crystalline Misfit-Layered Nanotubes of TbS-CrS₂, L.S Panchakarla, L. Lajaunie, R. Tenne and R. Arenal, *J. Phys. Chem. C* (Festschrift in honor of K. Uosaki) **120**, 15600-15607 (2016).
314. Reinforcing Silica Aerogels with Tungsten Disulfide Nanotubes, A. Sedova, G. Bar, R. Ron, O. Goldbart, B. Achrai, I. Kaplan-Ashiri, V. Brumfeld, A. Zak, R. Gvishi, H.D. Wagner and R. Tenne, *J. Supercritical Fluids* **106**, 9-15 (2015). Fig. [dx.doi.org/10.1016/j.supflu.2015.07.018](https://doi.org/10.1016/j.supflu.2015.07.018)
315. Beneficial Effect of Re-Doping in the Electrochemical HER Activity of MoS₂ Fullerenes, M. Chettri, U. Gupta, L. Yadgarov, R. Rosentsveig, R. Tenne, C.N.R. Rao, *Dalton Trans.* **44**, 16399-16404 (2015).
316. Advanced AZ31 Mg Alloy Nanocomposites Reinforced by WS₂ Nanotubes, S.-J. Huang, C.-H. He, Y. Feldman and R. Tenne. *J. Alloys Comp.* **654**, 15-22 (2016).
317. Nanotube Electromechanics – Beyond Carbon: The case of WS₂, R. Levi, J. Garel, D. Teich, G. Seifert, R. Tenne and E. Joselevich, *ACS Nano* **9**, 12224-12232 (2015).
318. Tubular Structures from the LnS-TaS₂ (Ln=La, Ce, Nd, Ho, Er) and LaSe-TaSe₂ Misfit Layered Compounds, G. Radovsky, R. Popovitz-Biro, T. Lorenz, G. Seifert, J.-O. Joswig, L. Houben, R.E. Dunin-Borkowski and R. Tenne, *J. Mater. Chem. C* **4**, 89-98 (2016); DOI: 10.1039/c5tc02983j.
319. High Pressure Vibrational Properties of WS₂ Nanotubes, K.R. O'Neal, J.G. Cherian, A. Zak, R. Tenne, Z. Liu and J. L. Musfeldt, *Nano Lett.* **16**, 993-999 (2016).
320. Effect of Tungsten Disulphide Nanotubes and Glutaric Acid on the Thermal and Mechanical Properties of Polyvinyl Alcohol, A.K. Sonker, H.D. Wagner, R. Bajpai, R. Tenne and X.-M. Xui, *Composites Science and Technology* **127**, 47-53 (2016).
321. Effects of p- and n-type Doping in Inorganic Fullerene MoS₂ on the Hydrogen Evolution Reaction, U. Gupta, L. Yadgarov, R. Rosentsveig, R. Tenne and C.N.R. Rao, *ChemElectroChem* **3**, 1937-1943 (2016).
322. Nanotubes from Oxide-Based Misfit Family: The Case of Calcium Cobalt Oxide, L.S. Panchakarla, L. Lajaunie, A. Ramasubramaniam, R. Arenal and R. Tenne, *ACS Nano* **10**, 6248-6256 (2016).
323. Raman Spectroscopy of Intercalated and Misfit Layer Nanotubes, M. Staiger, V. Bacic, R. Gillen, G. Radovsky, K. Gartsman, R. Tenne, T. Heine, J. Maultzsch and C. Thomsen, *Phys. Rev. B* **94**, 035430 (2016).
324. Comparative Study on the Properties of Poly(Trimethylene Terephthalate) -Based Nanocomposites Containing Multiwalled Carbon (MWCNT) and Tungsten Disulfide (INT-WS₂) Nanotubes, S. Paszkiewicz, A. Szymczyk, I. Janowska, R. Jedrzejewski, A. Linares, T.A. Ezquerro, H.D. Wagner, R. Tenne and Z. Roślaniec, *Polymers for Adv. Technol.*, **28** 645-657 (2017).
325. Strain-Induced Phonon Shifts in Tungsten Disulfide Nanoplatelets and Nanotubes, F. Wang, I. Kinloch, D. Wolverson, R. Tenne, A. Zak, E. O'Connell, U. Bangert and R. Young, *2D Materials* **4**, 015007 (2016).
326. Diameter-Dependent Wetting of Tungsten Disulfide Nanotubes, O. Goldbart, S.R. Cohen, I. Kaplan-Ashiri, P. Glazyrina, H.D. Wagner, A. Enyashin and R. Tenne, *Proc. Natl. Acad. Sci. US (PNAS)* **113**, 13624-13629 (2016).
327. Strontium Cobalt Oxide Misfit Nanotubes, L.S. Panchakarla, L. Lajaunie, A. Ramasubramaniam, R. Arenal and R. Tenne, *Chem. Mater.* **28**, 9150-9157 (2016).
328. Superconductivity in a Chiral Nanotube, F. Qin, W. Shi, T. Ideue, M. Yoshida, A. Zak, R. Tenne, T. Kikitsu, D. Inoue, D. Hashizume, and Y. Iwasa, *Nature Comm.* **8**, 14465 (2017); DOI: 10.1038/ncomms14465 (2017). See also: <https://phys.org/news/2017-02-chiral-superconductivity-experimentally.html>

329. Structure and Stability of GaS Fullerenes and Nanotubes, A.N. Enyashin, O. Brontvein, G. Seifert and R. Tenne, *Isr. J. Chem.* **57**, 529-539 (2017). With coveragepage.
330. Important Insights into Polyurethane Nanocomposite-Adhesives; a Comparative Study Between INT-WS₂ and CNT, G. Otorogust, H. Dodiuk, S. Kenig and R. Tenne, *Euro. Polym. J.* **89**, 281-300 (2017).
331. Synthesis and Characterization of Pb@GaS Core-Shell Fullerene-Like nanoparticles and Nanotubes, O. Brontvein, L. Houben, R. Popovitz-Biro, M. Levy, D. Feuermann, R. Tenne and J.M. Gordon, *Nano* **12**, 1750030 (2017). Highlight paper of the issue and the coveragepage.
332. Torsional Resonators Based on Inorganic Nanotubes, Y. Divon, R. Levi, J. Garel, D. Golberg, R. Tenne, A. Ya'akovovitz and E. Joselevich, *NanoLett.* **17**, 28-35 (2017).
333. Synthesis of Magnetic FeWO₄ Nanoparticles and Their Decoration of WS₂ Nanotubes Surface, A. Sedova, G. Leituss, Y. Feldman, T. Bendikov, S. Khodorov, H. Dodiuk, S. Kenig and R. Tenne, *J. Mater. Sci.* **52**, 6376-6387 (2017).
334. Dielectric and Electrical Properties of WS₂ Nanotubes/Epoxy Composites and their Use for Stress Monitoring in Structures, A. Sedova, S. Khodorov, D. Ehre, B. Achrai, H.D. Wagner, I. Lubomirsky, R. Tenne, H. Dodiuk and S. Kenig, *J. Nanomaterials* (Hindawi Publ.), 4838095 (2017).
335. Short Pulse Laser Synthesis of Transition-Metal Dichalcogenide Nanostructures under Ambient Conditions, K. Savva, B. Višić, R. Popovitz-Biro, E. Stratakis, R. Tenne, *ACS-Omega*, DOI: 10.1021/acsomega.7b00409 (2017).
336. Synthesis of Core-Shell Single Layer MoS₂ Sheathing Gold Nanoparticles AuNP@1L-MoS₂, A. Lavie, L. Yadgarov, L. Houben, R. Popovitz-Biro, T.-E. Shaul, A. Nagler, H. Suchowski and R. Tenne, *Nanotechnology* **28**, 24LT03 (2017). doi.org/10.1088/1361-6528/aa715f
337. Inorganic Nanotubes and Fullerene-Like Nanoparticles at the Crossroad Between Solid-State Chemistry and Nanotechnology, B. Visic, L.S. Panchakarla and R. Tenne, "Perspective" *J. Am. Chem. Soc.* **139**, 12865-12878 (2017); *JACS Spotlight*, **139**, 12863-12864 (2017).
338. Doping of Fullerene-Like MoS₂ Nanoparticles with Minute Amounts of Niobium, R. Rosentsveig, L. Yadgarov, Y. Feldman, S. Shilstein, R. Popovitz-Biro, B. Visic, A. Sedova, S. R. Cohen, Y. Li, A.I. Frenkel and R. Tenne, *Particle and Particle Systems Characterization* **35**, 1700165 (2018); With back coveragepage.
339. Influence of Nanotube Length and Density on the Plasmonic Terahertz Response from Single-Walled Carbon Nanotube, P. Karlsen, M.V. Shuba, C. Beckerleg, D.I. Yuko, P.P. Kuzhir, S.A. Maksimenko, V. Ksenevich, H. Viet, A.G. Nasibulin, R. Tenne and E. Hendry, *J. Phys. D: Appl. Phys.* **51**, DOI: 10.1088/1361-6463/aa96ef (2017).
340. Quaternary Chalcogenide-Based Misfit Nanotubes LnS(Se)-TaS(Se)₂ (Ln=La, Ce, Nd and Ho): Synthesis and Atomic Structural Studies, L. Lajaunie, G. Radovsky, R. Tenne and R. Arenal, *Inorg. Chem.* **57**, 747-753 (2018).
341. How Effectively do Carbon Nanotube Inclusions Contribute to the Electromagnetic Performance of a Composite Material? Estimation Criteria from Microwave and Terahertz Measurements, M.V. Shuba, D.I. Yuko, P.P. Kuzhir, S.A. Maksimenko, M.A. Kanygin, A.V. Okotrub, R. Tenne and Ph. Lambin, *Carbon* **129**, 688-694 (2018).
342. Electrophoretic Deposition of Hydroxyapatite Film Containing Re-Doped IF-MoS₂ Nanoparticles, H. Shalom, Y. Feldman, R. Rosentsveig, I. Pinkas, I. Kaplan-Ashiri, A. Moshkovich, V. Perfilyev, L. Rapoport and R. Tenne, *Int. J. Molecular Sci.* **19**, 657 (2018); doi:10.3390/ijms19030657.
343. Tubular Hybrids: A Nanoparticle – Molecular Network, P. Ranjan, S. Shankar, R. Popovitz-Biro, S.R. Cohen, I. Pinkas, R. Tenne, M. Lahav and M.E. van der Boom, *Langmuir* **34**, 2464-2470 (2018).
344. Mechanical Behavior Enhancement of AZ31/WS₂ and AZ61/WS₂ Magnesium Metal-Matrix Nanocomposites, S.-J. Huang, C.C. Lin, J.-Y. Huang and R. Tenne, *Adv. Mech. Eng.* **10**, 1-14 (2018).
345. Decoration of Inorganic Nanostructures by Metallic Nanoparticles to Induce Fluorescence, Enhance Solubility, and for Bandgap Tuning, P. Ranjan, S. Shankar, R. Popovitz-Biro, S.R. Cohen, I. Kaplan-Ashiri, T. Dadosh, L.J. W. Shimon, B. Visic, R. Tenne, M. Lahav and M.E. van der Boom, *J. Phys. Chem. C* **122**, 6748-6759 (2018).
346. Optoelectronic response of a WS₂ Tubular p-n Junction, Y.J. Zhang, M. Onga, F. Qin, W. Shi, A. Zak, R. Tenne, J. Smet and Y. Iwasa, *2D Materials* **5**, 035002 (2018).
347. Improved Performance p-Type Polymer (P3HT)/n-type Nanotubes (WS₂) Electrolyte Gated Thin-Film Transistor, E. Macchia, A. Zak, R. Anna Picca, C. Di Franco, N. Cioffi, G. Scamarcio, R. Tenne and L. Torsi, *MRS Advances*, DOI: 10.1557/adv.2018.311 (2018).
348. Metallic Nanocrystal Ripening on Inorganic Surfaces, P. Ranjan, I. Kaplan Ashiri, R. Popovitz-Biro, S.R. Cohen, L. Houben, R. Tenne, M. Lahav and M.E. van der Boom, *ACS Omega* **3**, 6533-6539 (2018).
349. Synthesis and Characterization of Nanotubes from Misfit Compounds (LnS)_{1+y}TaS₂ (Ln= Pr, Sm, Gd, Yb), M. Serra, D. Stolas, L. Houben, R. Popovitz-Biro, I. Pinkas, F. Kampmann, J. Maultzsch, E. Joselevich and R. Tenne, *Chem. Eur. J* **24**, 11354-11363 (2018). With back coveragepage.
350. Strong Light-Matter Interaction in Tungsten Disulfide Nanotubes, L. Yadgarov, B. Visic, T. Abir, R. Tenne, A. Polyakov, R. Levi, T.V. Dolgova, V.V. Zubuyuk, A.A. Fedyanin, E.A. Goodilin, T. Ellenbogen, R. Tenne and D. Oron, *Phys.Chem.Chem.Phys.* **20**, 20812-20820 (2018).

351. Diameter Dependent Superconductivity in Individual WS₂ Nanotubes, F. Qin, T. Ideue, W. Shi, X.-X. Zhang, M. Yoshida, A. Zak, R. Tenne, T. Kikitsu, D. Inoue, D. Hashizume and Y. Iwasa, *NanoLett.* **18**, 6789-6794 (2018). Highlighted in *Nature Nanotech.* **13**, 978 (2018).
352. Deposition of Metal Coatings Containing Fullerene-Like MoS₂ Nanoparticles with Reduced Friction and Wear, O. Elianov, S. Garusi, R. Rosentsveig, S.R. Cohen, Y. Feldman, I. Pinkas, T. Bendikov, I. Kaplan-Ashiri, A. Moshkovich, V. Perilyev, L. Rapoport, J. Moshonov, R. Tenne* and B. Shay, *Surf. & Coating Tech.* **353**, 116-125 (2018).
353. Nanotubes from the Misfit Compound Alloy LaS-Nb_xTa_(1-x)S₂, D. Stolovas, M. Serra, R. Popovitz-Biro, I. Pinkas, L. Houben, Jose J. Calvino, E. Joselevich, R. Tenne, R. Arenal and L. Lajaunie, *Chem. Mater.* **30**, 8829-8842 (2018).
354. Enhanced Intrinsic Photovoltaic Effect in Tungsten Disulfide Nanotubes, Y. J. Zhang, T. Ideue, M. Onga, F. Qin, R. Suzuki, A. Zak, R. Tenne, J.H. Smet, and Y. Iwasa, *Nature* **570**, 349-353 (2019). See N&V, *Nature* **570**, 310-311 (2019).
355. Nanocomposite of Poly(L-Lactic Acid) with Inorganic Nanotubes of WS₂, H. Shalom, X.-M. Sui, O. Elianov, V. Brumfeld, R. Rosentsveig, I. Pinkas, Y. Feldman, N. Kampf, H.D. Wagner, N. Senesh-Lachman, R. Tenne, *Lubricants* (MDPI) **7**, 28; doi:10.3390/lubricants7030028 (2019).
356. Synthesis and Characterization of Quaternary La(Sr)S-TaS₂ Misfit Layered Nanotubes, M. Serra, E.A. Anumol, D. Stolovas, I. Pinkas, E. Joselevich, R. Tenne, A.N. Enyashin and F.L. Deepak, *Beilstein J. Nanotech.* **10**, 1112-1124 (2019).
357. Impact Resistant Hybrid Composites Reinforced with Inorganic Nanoparticles and Nanotubes of WS₂, D.M. Simić, D.B. Stojanović, M. Dimić, K. Mišković, M. Marjanović, Z. Burzić, P.S. Uskoković, A. Zak and R. Tenne, *Composites-Part B*, **176**, 107222 (2019).
358. Au-MoS₂ Hybrids as Hydrogen Evolution Electrocatalysts, R. Bar-Ziv, P. Ranjan, A. Lavie, A. Jain, S. Garai, A. Bar-Hen, R. Popovitz-Biro, R. Tenne, R. Arenal, A. Ramasubramaniam, L. Lajaunie and M. Bar-Sadan, *ACS Appl. Energy Mater.* **2**, 6043-6050 (2019). With Coverage.
359. Femtosecond Dynamics of Light-Matter Interaction in the Intrinsic Cavity of WS₂ Nanotubes, B. Visic, L. Yadgarov, E.A.A. Pogna, S.D. Conte, V. Vega-Mayoral, D. Vella, R. Tenne, G. Cerullo and C. Gadermaier, *Phys. Rev. Res.* **1**, 033046 (2019).
360. Size-Dependent Control of Exciton-Polariton Interactions in WS₂ Nanotubes, S.S. Sinha, A. Zak, R. Rosentsveig, I. Pinkas, R. Tenne and L. Yadgarov, *Small* **16**, 1904390 (2020); DOI: 10.1002/smll.201904390.
361. Temporal Characteristics of Liquid Crystal Cell with WS₂ Nanoparticles: Mesophase Sensitization and Relief Features, N. Kamanina, Ю.А.Зубцова, А.С.Тойка, С.В.Лихоманова, A. Zak and R. Tenne, *Liq. Cryst. and Their Appl.*, **20** (1), 34-40 (2020) (in Russian); УДК: 532.783; 53.04; 535.016.
362. Quaternary Ln_xLa_(1-x)S-TaS₂ Nanotubes (Ln=Pr, Sm, Ho, and Yb) as a Vehicle for Improving the yield of misfit Nanotubes, M. Serra, L. Lajaunie, M.B. Sreedhara, Y. Miroshnikov, I. Pinkas, J.J. Calvino, A.N. Enyashin and R. Tenne, *Appl. Mater. Today* **19**, 100581(2020).
363. Strong, Tough and Bio-Degradable Polymer-Based 3D-Ink for Fused Filament Fabrication (FFF) Using WS₂ Nanotubes, H. Shalom, S. Kapishnikov, V. Brumfeld, N. Naveh, R. Tenne and N. Lachman, *Scientific Reports*, 10:8892 | <https://doi.org/10.1038/s41598-020-65861-w> (2020).
364. Silica Aerogels as Hosting Matrices for WS₂ Nanotubes and Their Optical Characterization, A. Sedova, B. Visic, V. Vega Mayoral, D. Vella, C. Gadermaier, H. Dodiuk, S. Kenig, R. Tenne, R. Gvishi and G. Bar, *J. Mater. Sci.* **55**, 7612-7623 (2020).
365. YS-TaS₂ and La_{1-x}Y_xS-TaS₂ (0≤x≤1) Nanotubes: a Family of Misfit Layered Compounds, S. Hettler, M.B. Sreedhara, M. Serra, R. Popovitz-Biro, I. Pinkas, A.N. Enyashin, R. Tenne and R. Arenal, *ACS Nano* **14**, 5445-5458 (2020).
366. Magnetic Field-Induced Through-Plane Alignment of the Proton Highway in a Proton Exchange Membrane, J. Hyun, G. Doo, S. Yuk, D.-H. Lee, D.-W. Lee, S. Choi, J. Kwen, H. Kang, R. Tenne, S.G. Lee, H.-T. Kim, *ACS Appl. Energy Mater.* **3**, 4619-4628 (2020).
367. Chemical Control of the Surface of WS₂ Nanoparticles, H. Shalom, T. Bendikov, Y. Feldman, N. Lachman, A. Zak and R. Tenne, *Chem. Phys. Lett.* **761**, 138052 (2020).
368. Correlations Between Spectral Time and Orientation Parameters of Liquid Crystal Cells with WS₂ Nanoparticles, N.V. Kamanina, Yu.A. Zubtcova, P.V. Kuzhakov, A. Zak and R. Tenne, *Liq. Cryst. and Their Appl.* **20** (3), 41-48 (2020) (in Russian); УДК: 532.783; 53.04; 535.016.
369. Synthesis and Characterization of WS₂ Microfibers, V. Kundrat, R. Rosentsveig, O. Brontvein, R. Tenne and I. Pinkas, *J. Mater. Sci.* **56**, 10834-10846 (2021).
370. MoS₂ and WS₂ Nanotubes: Synthesis, Structural Elucidation and Optical Characterization, S.S. Sinha, L. Yadgarov, S.B. Aliev, Y. Feldman, I. Pinkas, P. Chithaiah, S. Ghosh, A. Idelevich, A. Zak and R. Tenne, *J. Phys. Chem. C*, **125**, 11, 6324-6340 (2021).
371. Vibrational Properties and Charge Transfer in the Misfit-Layer Compound LaS-CrS₂, F. Kampmann, R. Gillen, L. Panchakarla, R. Tenne and J. Maultzsch, *J. Phys. Chem. C* **125**, 8006-8013 (2021).

- 372.** Probing the Chiral Domains and Excitonic States in Individual WS₂ Tubes by Second Harmonic Generation, H. Xia, X. Chen, S. Luo, F. Qin, T. Ideue, Y. Iwasa, A. Zak, R. Tenne, Z. Chen, W. Liu and S. Wu, *Nano Lett.* **21**, 4937-4943 (2021).
- 373.** Asymmetric “Misfit” Nanotubes: Chemical Affinity Outwits the Entropy at High-Temperature Solid-State Reactions, M.B. Sreedhara, S. Hettler, I. Kaplan-Ashiri, K. Rechav, Y. Feldman, A. Enyashin, L. Houben, R. Arenal and R. Tenne, *Proc. Nat. Acad. Sci. US (PNAS)* **118** (35) e2109945118 (2021); <https://doi.org/10.1073/pnas.2109945118>.
- 374.** Electrical Properties of LaS-TaS₂ Misfit Layered Compound Nanotubes, D. Stolovas, R. Popovitz-Biro, O. Bitton, S.S. Sinha, D. Shahar, R. Tenne and E. Joselevich, *Isr. J. Chem.* **61**, 1-14 (2021).
- 375.** Zinc Segregation in CdZnTe Grown Under Cd/Zn Partial-Pressure, M. Azoulay, S. Rotter, G. Gafni, and R. Tenne, *J. Cryst. Growth* **117**, 276-280 (1992).
- 376.** Poly(L-Lactic Acid) Reinforced with Hydroxyapatite and Tungsten Disulfide Nanotubes, O. Golan, H. Shalom, I. Kaplan-Ashiri, S.R. Cohen, Y. Feldman, I. Pinkas, R. Ofek Almog, A. Zak and R. Tenne, *Polymers* **13**, 3851 (2021). <https://doi.org/10.3390/polym13213851>.
- 377.** Nanotubes from the Misfit Layered Compound (SmS)_{1.19}TaS₂: Atomic Structure, Charge-Transfer and Electrical Properties, M.B. Sreedhara, K. Bukvišová, A. Khadiev, D. Citterberg, H. Cohen, V. Balema, A.K. Pathak, D. Novikov, G. Leitus, I. Kaplan-Ashiri, M. Kolibal, A.N. Enyashin, L. Houben and R. Tenne, *Chem. Mater.* **34**, 4, 1838-1853 (2022).
- 378.** Influence of Surface Relief on Orientation of Nematic Liquid Crystals: Polyimide Doped with WS₂ Nanotubes, N. Kamanina, A. Toikka, Y. Barnash, A. Zak and R. Tenne, *Crystals* **12**, 391 (2022), <https://doi.org/10.3390/cryst12030391>.
- 379.** Size and Shape Effects on High Pressure Behaviors of WS₂ Nanomaterials, L. Yue, D. Xu, Z. Wei, T. Zhao, T. Lin, R. Tenne, A. Zak, Q. Li and B. Liu, *Materials* **15**, 2838 (2022).
- 380.** WS₂ Nanotubes as a 1D Functional Filler for Melt Mixing with Poly(lactic acid), E. Magee, F. Tang, E. Ozdeimer, M. Walker, T. Di Luccio, J.A. Kornfield, A. Zak, R. Tenne and T. McNally, *ACS Appl. Nano Mater.*, <https://pubs.acs.org/action/showCitFormats?doi=10.1021/acsanm.2c00489&ref=pdf>.
- 381.** WS_{2(1-x)}Se_{2x} Nanotubes: Stoichiometry Modulated Tunable Optical Properties, M.B. Sreedhara, Y. Miroshnikov, K. Zheng, L. Houben, S. Hettler, R. Arenal, I. Pinkas, S.S. Sinha, I.E. Castelli and R. Tenne, *J. Am. Chem. Soc.* **144**, 23, 10530–10542 (2022).
- 382.** Size and Shape Effects on High Pressure Behavior of WS₂ Nanomaterials, L. Yue, D. Xu, Z. Wei, T. Zhao, T. Lin, R. Tenne, A. Zak, Q. Li and B. Liu, *Materials* **15**, 2838 (2022); <https://doi.org/10.3390/ma15082838>.
- 383.** Mesoscopic Sliding Ferroelectricity Enabled Photovoltaic Random Access Memory for Matter-Level Artificial Vision System, Y. Sun, S. Xu, Z. Xu, J. Tian, M. Bai, Z. Qi, Y. Niu, H.H. Aung, X. Xiong, S. Wang, Q. Chen, R. Tenne, A. Zak and Y. Guo, *Nature Comm.* **13**, 5391 (2022); <https://doi.org/10.1038/s41467-022-33118> (2022).
- 384.** Improved Electrochemical Performances of WS₂ Nanotubes Nanocomposite for Lithium-Ion and Sodium-Ion Batteries, S. Wei, M. Serra, S. Mourdikoudis, H. Zhou, B. Wu, L. Dekanovsky, J. Šturala, J. Luxa, R. Tenne, A. Zak and Z. Sofer, *ACS Appl. Mater. Interf.* **14**, 46386–46400 (2022).
- 385.** Synthesis of the Elusive Doublewall Nanotubes and Nanocones(Horns) of MoS₂ via Focused Solar Ablation, T. Barbe, R. Rosentsveig, O. Brontvein, M.B. Sreedhara, K. Zheng, F. Bataille, A. Vossier, G. Flamant, I.E. Castelli, J.M. Gordon and R. Tenne, *Adv. Mater. Interf.* 2201930 (2022); DOI: 10.1002/admi.202201930.
- 386.** Cationic Polymerized Epoxy and Radiation Cured Acrylate Blend Nanocomposites Based on WS₂ and Silica Nanoparticles Part A: Curing Processes and Kinetics, G. Gershoni, H. Dodiuk, R. Tenne and S. Kenig, *J. Comp. Sci.* **7**, 41 (2023); <https://doi.org/10.3390/jcs7010041>.
- 387.** Cationic Polymerized Epoxy and Radiation Cured Acrylate Blend Nanocomposites Based on WS₂ and Silica Nanoparticles Part B: Mechanical and Physical Properties, G. Gershoni, H. Dodiuk, R. Tenne and S. Kenig, *J. Comp. Sci.* **7**, 42 (2023); <https://doi.org/10.3390/jcs7010042>.
- 388.** Silane Functionalization of WS₂ Nanotubes for Interaction with Poly(lactic acid), E. Magee, F. Teng, M. Walker, A. Zak, R. Tenne and T. McNally, *Nanoscale* **15**, 7577-7590 (2023); DOI: 10.1039/d3nr00583f (2023).
- 389.** 0D van der Waals Interfacial Ferroelectricity, Y. Niu, L. Li, Z. Qi, H. H. Aung, R. Tenne, Y. Yao, A. Zak and Y. Guo, *Nature Comm.* **14**, 5578 (2023); <https://doi.org/10.1038/s41467-023-41045-8>; see; See also Research Highlights, *Nature Elect.* **6**, 793 (2023).
- 390.** The Mechanical Properties Relationship of Radiation Cured Nanocomposites Based on Acrylates and Cationic Polymerized Epoxies and the Composition of Silane Modified WS₂ Nanoparticles, Y. Gercci, N. Yosef-Tal, H. Dodiuk, S. Kenig and R. Tenne, *Polymers* **15**, 3061 (2023). <https://doi.org/10.3390/polym15143061>.
- 391.** Tailoring the Interface of WS₂ Nanoparticles by Photo-Initiator for Radiation Curing and Reinforcement of Nanostructured Acrylates, N. Yosef-Tal, H. Dodiuk, E. Amir, R. Carmieli, R. Tenne and S. Kenig, *Nano-Structures & Nano-Objects* **36**, 101034 (2023).
- 392.** Submillimeter-Long WS₂ Nanotubes: The Pathway to Inorganic Buckypaper, V. Kundrat, R. Rosentsveig, K. Bukvisova, D. Citterberg, M. Kolibal, A. Zak and R. Tenne, *Nano Lett.* **23**, 10259-10266 (2023).

393. Insights into the Growth of Ternary WSe Nanotubes in an Atmospheric CVD Reactor, R. Rosentsveig, M.B. Sreedhara, S.S. Sinha, I. Kaplan-Ashiri, O. Brontvein, Y. Feldman, I. Pinkas, K. Zheng, I.E. Castelli and R. Tenne, *Inorg. Chem.* **62**, 18267–18279 (2023). <https://doi.org/10.1021/acs.inorgchem.3c02903> (2023).
394. W₁₈O₄₉ Nanowhiskers Decorating SiO₂ Nanofibers: Lessons from in-situ SEM/TEM Growth to Large Scale Synthesis and Fundamental Structural Understanding, V. Kundrat, K. Bukvisova, L. Novak, L. Prucha, L. Houben, J. Zalesak, A. Vukusic, D. Holec, R. Tenne and J. Pinkas, *Cryst. Growth & Design* **24**, 378-390 (2024).
395. Polyelectrolyte Complexation of Chitosan and WS₂ Nanotubes, E. Magee, F. Xie, S. Farris, A. Dsouza, C. Constantinidou, A. Zak, R. Tenne and T. McNally, *Adv. Mater. Inter.* **2023**, 2300501; DOI: 10.1002/admi.202300501.
396. Encapsulation of Uranium Oxide in Multiwall WS₂ Nanotubes, V. Kundrat, H. Cohen, A. Kossoy, W. Bonani, L. Houben, J. Zalesak, B. Wu, Z. Sofer, K. Popa and R. Tenne, *Small* **2023**, 2307684; DOI: 10.1002/sml.202307684.
397. Accelerated Photocuring of Acrylate Resins with WS₂ Nanoparticles, N. Yosef-Tal, H. Dodiuk, S. Farran, R. Carmieli, I. Pinkas, S. Kenig and R. Tenne, *ACS Appl. Polymer. Mater.* **6**, 3303-3315 (2024), <https://doi.org/10.1021/acsapm.3c03119> (2024).
398. Mechanism of WS₂ Nanotube Formation Revealed by In-situ/Ex-situ Imaging, V. Kundrat, L. Novák, K. Bukvišová, J. Zálešák, E. Kolíbalová, R. Rosentsveig, M.B. Sreedhara, H. Shalom, L. Yadgarov, A. Zak, M. Kolíbal and R. Tenne, *ACS Nano* **18**, 12284-12294 (2024).
399. Nanotubes from Lanthanide based Misfit Layered Compounds: Understanding the Growth, Thermodynamic and Kinetic Stability Limits, M.B. Sreedhara, A. Khadiev, K. Zheng, S. Hettler, M. Serra, I.E. Castelli, R. Arenal, D. Novikov and R. Tenne, *Chem. Mater.* **36**, 4736-4749 (2024).
400. Polyetherimide (PEI) Nanocomposite with WS₂ Nanotubes, D. Babai, I. Pinkas, D. Naveh and R. Tenne, *Nanoscale* **16**, 9917-9934 (2024).
401. Misfit Layered Compounds: Insights into Chemical, Kinetic and Thermodynamic Stability of Nanophases, A. Khadiev, M.B. Sreedhara, S. Hettler, D. Novikov, R. Arenal and R. Tenne, *Accs. Chem. Res.* **57**, 3243-3253 (2024).
402. Aging of Multiwall Nanotubes and Fullerene-Like Nanoparticles of WS₂, R. Rosentsveig, Y. Feldman, V. Kundrat, I. Pinkas, A. Zak and R. Tenne, *J. Solid State Chem.* **346**, 125259 (2025).
403. Structure and Properties of Tubular Structures based on the Quaternary Misfit Layered Compound Sm_{1-x}Y_xS-TaS₂, S. Hettler, M. Furqan, M.B. Sreedhara, R. Tenne and R. Arenal, *RSC Advances* **15**, 9605-9617 (2025).
404. Core-Shell WS₂@WTe₂/MoTe₂ Nanotubes, V. Kundrat, L. Houben, J. Zalesak, D. Holec, I. Pinkas and R. Tenne, *Small Structures* **6**, 2500258 (2025). DOI: 10.1002/ssstr.202500258.
405. Unraveling the Decomposition Pathways of LaS-TaS₂ Misfit Layered Compound Nanostructures Under Extreme Electrical Currents by *in-situ* TEM, S. Hettler, MB Sreedhara, R. Tenne and R. Arenal, *J. Phys. Chem. C*, [doi=10.1021/acs.jpcc.5c03498](https://doi.org/10.1021/acs.jpcc.5c03498).
406. Epitaxial Assembly and Spectroscopic Inspection of Core-Shell WS₂@WSe₂ Nanotubes, V. Kundrat, E. Parth, R. Pinna Brito, H. Shalom, P. Immanuel, J. Zalesak, L. Houben, A.-E. Kossoy, L. Yadgarov, P. Ayala and R. Tenne, *Chem. Mater.* doi.org/10.1021/acs.chemmater.5c01314.
407. Very-Large-Scale Mimetic Optogenetic Synapses for Reservoir Computing, X. Han, Z. Qi, V. Kundrat, H. Li, Z. Li, X. Guo, P. Mao, W. Zheng, S. Hon, R. Lin, H. Wu, P. Wang, A. Zak, W. Lin, R. Tenne and Y. Guo, *Nature Comm.*, <https://doi.org/10.1038/s41467-025-68229-8>.

* Corresponding author

Invited papers

1. Fullerene-Like Nanocrystals of Tungsten Disulphide, R. Tenne, L. Margulis, and G. Hodes, Research News in *Adv. Mater.* **5**, 386-388 (1993).
2. Inorganic Fullerenes, R. Tenne and L. Margulis, *the Isr. Chemist* **14**, 60 (1995).
3. Growth of Crystalline WSe₂ and WS₂ Films on Amorphous Substrate by Reactive (van der Waals) Rheotaxy, T. Tsirlina, S.R. Cohen, H. Cohen, L. Sapir, M. Peisach, R. Tenne*, A. Matthaeus, S. Tiefenbacher, W. Jaegermann, E.A. Ponomarev, and C. Lévy-Clément, *Solar Energy Materials and Solar Cells*, an issue in memory of Prof. M. Koltun, **44**, 457-470 (1996).
4. Inorganic Fullerene-Like Materials and Nanotubes, R. Tenne, *Chem. Isr.* **1**, 5 (1999).
5. Fullerene-Like Materials and Nanotubes from Inorganic Compounds with a Layered (2-D) Structure, R. Tenne, *Colloids and Surfaces A* **208**, 83-92 (2002).
6. Bundels and Foils of WS₂ Nanotubes, R. Rosentsveig, A. Margolin, Y. Feldman, R. Popovitz-Biro and R. Tenne, *Appl. Phys. A* **74**, 367-369 (2002).
7. Inorganic Nanotubes and Fullerene-Like Materials, R. Tenne, "Concept" paper to *Chem. A Europ. J.* **8**, 5296-5304 (2002).
8. Fullerene-Like WS₂ Nanoparticles: Superior Lubricants for Harsh Conditions, L. Rapoport, N. Fleischer, and R. Tenne, Research News, *Adv. Mater.* **15**, 651-655 (2003).

9. Mechanical Properties of WS₂ Nanotubes, I. Kaplan-Ashiri and R. Tenne, *Chimia*, **73**, 7-12 (2004) (in Hebrew).
10. Doping Control for Nanotubes, R. Tenne, *Nature (News & Views Sec.)* **431**, 640-641 (2004). [PDF](#)
11. Mechanical Properties of WS₂ Nanotubes, I. Kaplan-Ashiri and R. Tenne and D.H. Wagner, *Sci. Am. (Isr.)*, July (2007), pp.7-8 (in Hebrew).
12. Stochastic Strength of Nanotubes: An Appraisal of Available Data, A.H. Barber, I. Kaplan-Ashiri, S.R. Cohen, R. Tenne & H.D. Wagner, *Composite Sci. Tech.* **65**, 2380-2384 (2005).
13. Mechanical Properties of WS₂ Nanotubes, I. Kaplan-Ashiri and R. Tenne, *J. Cluster Sci.* **18**, 549-563 (2007).
14. Size Evolution of Mo-S Nanoclusters: the Phase Diagram of Nanoparticles, R. Tenne, *Struct. Chem.* (2008).
15. Inorganic WS₂ Nanotubes Revealed Atom by Atom Using Ultra High Resolution Transmission Electron Microscopy, M. Bar Sadan, M. Weidenbach, L. Houben, and R. Tenne, *Appl. Phys. A* **96**, 343-348 (2009). [PDF](#)
16. Inorganic Nanoparticles with Fullerene-Like Structure and Inorganic Nanotubes: From Basic Science to Applications, R. Tenne, *India Nano Digest* (<http://www.nanodigestmag.com>) **2**, 14-17 (2010) (1st Anniversary Issue).
17. Stability Criteria of Fullerene-Like nanoparticles: Comparing V₂O₅ to Layered Metal Dichalcogenides and Dihalides, R. Levi, M. Bar-Sadan, A. Albu-Yaron, R. Popovitz-Biro, L. Houben, Y. Prior and R. Tenne, special issue of *Materials*, "Progress in Nanomaterials Preparation", Ed. G.R. Patzke **3**, 4428-4445 (2010). doi:10.3390/ma3084428
18. צבירים אי-אורגניים סגורים וחלולים: ננומבנים דמויי-פולרנים וננוצינוריות, R. Tenne, *Igeret*, Bulletin of the Isr. Acad. Sci. Humanities (2012).
19. The Role of Lead (Pb) in the High Temperature Formation of MoS₂ Nanotubes, O. Brontvein, R. Tenne and A.N. Enyashin, *Inorganics*, special issue dedicated to "Inorganic Fullerenes and Inorganic Nanotubes", Eds. R. Tenne, A.N. Enyashin **2**, 363-375 (2014); doi:10.3390/inorganics2020363 (2014).
20. Inorganic Fullerene-Like Nanoparticles and Inorganic Nanotubes, R. Tenne and A. N. Enyashin, *Inorganics* (Forward to the themed issue) **2**, 649-651 (2014); doi:10.3390/inorganics2040649.
21. History of Electron Microscopy for Materials at the Weizmann Institute, R. Tenne, *The Israel Chemist and Chemical Engineer* **6**, 36-42, July (2020).
22. To What Extent Solid State Chemistry and Nanotechnology will Impact Sustainable Lifestyle of Human Being on Earth in the Years to Come, R. Tenne, *Rosarium Philosophorum* issue of the *Isr. J. Chem.* dedicated to Nanosci. and Nanotech. **65**, e202300069 (2025). doi.org/10.1002/ijch.202300069 (2024).
23. The Gold Ticket to Achiral WS₂ Nanotubes, M. Bar-Sadan and R. Tenne, *Nature Mater. (News & Views Sec.)* <https://doi.org/10.1038/s41563-023-01609-x> (2023).

Invited chapters in books

1. "Modification by Photoelectrochemistry of Surface Properties of Layered Compounds". C. Lévy-Clément and R. Tenne, in *Photoelectrochemistry and Photovoltaics of Layered Semiconductors*, Ed. A. Aruchamy, Kluwer Academic Publishers, Dordrecht (1992).
2. "Influence of Photoelectrochemical Etching on Electronic Properties of Semiconductors", *Semiconductor Micromachining, Vol.1: Fundamental Electrochemistry and Physics*, Ch. 4, Eds. S.A. Campbell and H.-J. Lewerenz, John Wiley & Sons, Ltd. (1998), pp. 139-175.
3. "Solar Energy", a chapter co-authored with I. Dostrovsky and A. Yogev, in the *Encyclopedia of Applied Physics*, Published by the American Institute of Physics and VCH, **18**, 363 (1997).
4. "Inorganic Fullerenes from 2-D Layered Compounds", *Cluster Assembled Solides*, Ed. K. Sattler, in *Materials Science Forum* Vol. 232, Trans Tech Publications Ltd (1996), pp. 275-294.
5. "Inorganic Fullerene-like Structures from 2-D Compounds", R. Tenne, M. Homyonfer and Y. Feldman, *Adv. Metal Semiconductor Clusters*, Ed. Michael A. Duncan, JAI Press, Inc., **4**, 227 (1998).
6. "New Materials for Photochemical and Photoelectrochemical Systems", in *Photochemical and Photoelectrochemical Approaches*, Vol.4, Eds. M.D. Archer and A.J. Nozik, Imperial College Press (1999).
7. "Inorganic Nanotube Materials", *Encyclopedia Mater., Sci. Tech.*, Eds. K.H.J. Buschow, R.W. Cahn, M.C. Flemings, B. Ilschner, E.J. Kramer, S. Mahajan, Subj. Ed. P. Day, Elsevier, Amsterdam, **5**, 4108-4110 (2001).
8. "Nanotubes from Inorganic Materials", R. Tenne and A. Zettl, in *Carbon Nanotubes, Topics in Appl. Phys.*, **80**, 81-112 (2000), Eds. M.S. Dresselhaus and P. Avouris, Springer Verlag.
9. "Inorganic Nanoclusters with Fullerene-Like Structure and Nanotubes", R. Tenne, in *Progress in Inorganic Chemistry*, Ed. Kenneth D. Karlin, John Wiley & Sons, **50**, 269-315 (2001).
10. "Inorganic Nanoparticles with Fullerene-Like Structure and Nanotubes; Some Electrochemical and Photoelectrochemical Aspects", R. Tenne, *Encyclopedia of Electrochemistry, Vol 6: Semiconductor Electrodes and Photoelectrochemistry*, Eds. Bard and Stratmann; Vol. Ed. S. Licht, Wiley-VCH, pp. 238-281 (2002).
11. "Inorganic Nanoparticles with Fullerene-Like Structure and Inorganic Nanotubes", R. Tenne and R. Popovitz-Biro, *Electron Microscopy of Nanotubes*, Ed. Z.L. Wang and C. Hui, Kluwer Academic Publishers, Boston, (2003), pp.251-271.

12. "Inorganic Fullerene-Like Structures and Inorganic Nanotubes from 2-D Layered Compounds", R. Tenne, *The Chemistry of Nanostructured Materials*, Ed. P. Yang, World Scientific Pub, Singapore (2003), pp. 147-182.
13. "Inorganic Nanotubes and Inorganic Fullerene-Like Nanomaterials", R. Tenne, *Encyclopedia of Nanoscience and Nanotechnology*, Eds. J.A. Schwarz, C. Contescu, and Dr. K. Putyera Schwartz, Marcel Dekker, pp. 1447-1455, New York (2004).
14. "Inorganic Nanotubes", C.N.R. Rao and R. Tenne, Eds. M. Terrones and H. Terrones, in *Nanotechnology of Carbon and Related Materials*, *Phil. Trans. R. Soc. Lond. A: Mathematical, Physical and Engineering Sciences* (The Royal Society, London), **362**, 2099-2125 (2004).
15. "Inorganic Nanotubes and Fullerene-Like Materials of Metal Dichalcogenide and Related Layered Compounds", R. Tenne, *Nanomaterials Handbook*, Ed. Y. Gogotsi, pp. 317-338, CRC Press/Taylor&Francis, Boca Raton (2006).
16. "Inorganic Nanotubes Materials (update)", Ms. 2122, *Encyclopedia Mater., Sci. Tech.*, Eds. Buschow, M. Flemings, R. Cahn, P. Veyssière, E. Kramer, S. Mahajan, Amsterdam, Elsevier Ltd. Available online at: www.sciencedirect.com. doi:10.1016/B0-08-043152-6/00722-1 (2006).
17. "Inorganic nanotubes and fullerene-like nanoparticles", R. Tenne, *Bottom-up Nanofabrication: Supramolecules, Self-Assemblies, and Organized Films*, Eds. K. Ariga and H.S. Nalwa, **1**, 265-295, American Scientific Publishers (www.aspbs.com) (2009).
18. a. "Mechanical properties of WS₂/MoS₂ nanotubes, Ifat Kaplan-Ashiri, H. Daniel Wagner and Reshef Tenne", *Encyclopedia of Nanoscience and Nanotechnology*, Eds. J.A. Schwarz, C. Contescu, and Dr. K. Putyera Schwartz, Marcel Dekker, New York, 2nd Edition pp. 1617-1626 (2009); <http://www.informaworld.com/10.1081/E-ENN2-120042075>; b. "Inorganic Sulfide Nanotubes: Mechanical Behavior", I. Kaplan-Ashiri, H.D. Wagner, G. Seifert and R. Tenne, In *Dekker Encyclopedia of Nanoscience and Nanotechnology*, Ed. S.E. Lyshevski, 3rd Edition. CRC Press: New York, pp. 1911-1920 (2014).
19. "Inorganic Nanotubes and Fullerene-Like Structures (IF)", R. Tenne, M. Remskar, A. Enayshin and G. Seifert, in *Carbon Nanotubes, Topics in Appl. Phys.*, an Update, A. Jorio, G. Dresselhaus, M. S. Dresselhaus (Eds.), Springer, NY, **111**, 631-671 (2008).
20. "Inorganic Nanotubes and Fullerene-Like Structures-From Synthesis to Application", M. Bar-Sadan and R. Tenne, in *Inorganic Nanoparticles New Frontiers of Research: Synthesis, Applications and Prospectives*, C. Altevialla and E. Ciliberto, Eds., CRC Press (Taylor&Francis) (2010).
21. "Tying Synthesis with Properties Through Structure: Inorganic Nanotubes and Fullerene-Like Nanoparticles" ("Compound Crystals") (Ch. 16), R. Levi, M. Bar-Sadan and R. Tenne *Springer Nanomaterials Handbook*, Ed. R. Vajtai, Springer Verlag, New York (2012); pp. 605-637; ISBN: 978-3-642-20594-1 (Print) 978-3-642-20595-8 (Online); DOI 10.1007/978-3-642-20595-8_16.
22. "Metallic Films with Fullerene-Like WS₂ (MoS₂) Nanoparticles: Self-Lubricating Coatings with Potential Applications", O. Eidelman, H. Friedman, and R. Tenne, in *Technological Innovations in Sensing and Detection of Chemical, Biological, Radiological, Nuclear Threats and Ecological Terrorism*, Ch. 6, Ed. Ashok Vaseashta, SPI Content Solutions – SPI Global, ISBN 978-94-007-2487-7 (2012).
23. "Nanoparticle Coating of Orthodontic Appliances for Friction Reduction", M. Redlich and R. Tenne in *Nanobiomaterials in Clinical Dentistry*. Eds. Karthikeyan Subramani, Waqar Ahmed, James K. Hartsfield Jr., Ch. **13** pp. 259-279. Elsevier (2013).
24. "Inorganic Nanotubes and Fullerene-Like Nanoparticles: From the Lab to Applications", R. Tenne, in *Technological Innovations in Sensing and Detection of Chemical, Biological, Radiological, Nuclear Threats and Ecological Terrorism*, Ed. Ashok Vaseashta (2013).
25. "Inorganic Fullerene-Like Nanoparticles and Nanotubes: Tribological, Mechanical and Optical Properties", B. Visic and R. Tenne in *Beyond Graphene, New Layered Nanomaterials: Theory, Experiment and Applications*, Eds. H.&M. Terrones and F. Lopez-Urias, Wiley-VCH (2015).
26. "Inorganic Nanotubes and Fullerene-Like Nanoparticles from Layered (2D) Compounds", L. Yadgarov, R. Popovitz-Biro and R. Tenne, *Handbook of Solid-State Chemistry*, Eds. A. Stein, R. Dronskowski, S. Kikkawa., Vol. 4 Ch. 2, pp. 21-52; Wiley-VCH (2016), printed: ISBN 978-3-527-32587-0; eBook: 978-3-527-691-03-6; <https://doi.org/10.1002/9783527691036.hsccvol4006>.
27. "Inorganic Nanotubes and Fullerene-Like Nanoparticles at the Crossroad between Materials Science and Nanotechnology and their Applications with Regard to Sustainability", L.S. Panchakarla and R. Tenne, *Nanotechnology for Energy Sustainability*, Eds. M. Van de Voorde, B. Raj and Y. Mahajan, Wiley-VCH ISBN: 978-3-527-34014-9 (2016). DOI: 10.1002/9783527696109. Chapter 31.
28. "Radiation Curing Thermosets", G. Gershoni, Y. Gercci, H. Dodiuk, S. Kenig, R. Tenne, 4th Edition of the "Handbook of Thermoset Plastics", pp. 891-915; <https://doi.org/10.1016/B978-0-12-821632-3.00012-9>, Eds. H. Dodiuk and S. Goodman, Elsevier (2022).

Invited review articles

1. Doped and Heteroatom-Containing Fullerene-like Structures and Nanotubes, R. Tenne, *Adv. Mater.* **7**, 965-995 (1995).
2. Fullerene-like Structures and Nanotubes from Inorganic Compounds, R. Tenne, *Endeavour* 97-104 (1996).
3. Crystallization Inside Fullerene Related Structures, J. Sloan, J. Cook, M.L.H. Green, J.L. Hutchison, and R. Tenne, *J. Mater. Chem.*, **7**, 1089-1095 (1997).
4. Nanoparticles of Layered Compounds with Hollow Cage Structures (Inorganic Fullerene-Like Structures), R. Tenne, Y. Feldman, and M. Homyonfer, *Chem. Mater.*, **10**, 3225-3238 (1998).
5. Diamond Electrodes, R. Tenne and C. Lévy-Clément, *Isr. J. Chem.* issue dedicated to Diamond Films", Eds. D. Shechtman and S. Rotter, **38**, 57 (1998).
6. Inorganic Nanotubes and Fullerene-Like Materials, R. Tenne, *Science Spectra* **23**, 34-44 (2000).
7. Advances in the Synthesis of Inorganic Nanotubes and Fullerene-Like Nanoparticles, R. Tenne, *Angew. Chem. Intl. Ed.* **42**, 5124-5132 (2003).
8. Inorganic Nanotubes and Fullerene-like Nanoparticles from Layered Compounds, *Interface* (Bulletin of the Electrochemical Society), **12**, 17-18 (2003).
9. Applications of WS₂ (MoS₂) Inorganic Nanotubes and Fullerene-Like Nanoparticles for Solid Lubrication and for Structural Nanocomposites, L. Rapoport, N. Fleischer and R. Tenne, *J. Mater. Chem.* **15**, 1782-1788 (2005).
10. The Mechanical Properties of WS₂ Nanotubes, I. Kaplan-Ashiri, R. Tenne, and H.D. Wagner, *Sci. Am.* (in Hebrew, 2007).
11. Inorganic Nanotubes and Fullerene-Like Materials, R. Tenne, *Nature Nanotechnology* **1**, 103-111 (2006); <https://www.nature.com/articles/nnano.2006.62>
12. Fullerenes Fight Friction, Giant Inorganic Molecules Give Exceptional Performance as Dry Lubricants, M. Genut, N.A. Fleischer, A. Zak, L. Rapoport and R. Tenne, *Europ. Coating Journal*, Euro. Coatings Conf., "Smart Coatings V", pp.22-27, Berlin/Germany, May (2006).
13. Inorganic Nanotubes and Fullerene-Like Nanoparticles, R. Tenne, *J. Mater. Res.* (focused issue on "Nanotubes and Nanowires", **21**, 2726-2743 (2006).
14. Polymer-Assisted Fabrication of Nanoparticles and Nanocomposites, B.A. Rozenberg and R. Tenne, *Prog. Polymer Sci.* **33**, 40-112 (2008).
15. Inorganic Fullerenes and Nanotubes: Wealth of Materials and Morphologies in, M. Bar-Sadan, I. Kaplan-Ashiri and R. Tenne, *Eur. J. Phys.*, Special Topics: *Nanotechnology* **149**, 71-101 (2007).
16. Gas-Phase Synthesis of Inorganic Fullerene-Like Structures and Inorganic Nanotubes, F. L. Deepak and R. Tenne, *Central Eur. Chem. J.* **6**, 373-389 (2008).
17. Intercalation of Inorganic Nanotubes and Fullerene-Like Nanoparticles, F. Kopnov and R. Tenne, *Digest J. Nanomater. Biostruct.* **3**, 123-134 (2008).
18. Recent Progress in the Study of Inorganic Nanotubes and Fullerene-Like Structures, R. Tenne and G. Seifert, *Ann. Rev. Mater. Res.* **39**, 387-413 (2009).
19. Recent Progress in the Research of Inorganic Fullerene-Like Nanoparticles and Inorganic Nanotubes, R. Tenne and M. Redlich, *Chem. Soc. Rev. (RSC)* **39**, 1423-1434 (2010). [PDF](#)
20. One- and Two-Dimensional Inorganic Crystals using WS₂ Nanotubes as Template, S.Y. Hong, R. Kreizman, R. Rosentsveig, A. Zak, J. Sloan, A.N. Enyashin, G. Seifert, M.L.H. Green, R. Tenne, Special Issue of *Eur. J. Inorg. Chem.* **27**, 4233-4243 Ed. C.N.R. Rao (2010). [PDF](#)
21. Synthesis of Inorganic Fullerene-Like Nanostructures by Concentrated Solar and Artificial Light, M. Levy, A. Albu-Yaron, R. Tenne, D. Feuermann, E.A. Katz, D. Babai and J.M. Gordon, *Isr. J. Chem.* **50**, 417-425 (2010). [PDF](#)
22. Medical Applications of Inorganic Fullerene-Like Nanoparticles, A.R. Adini, M. Redlich and R. Tenne, *J. Mater. Chem.* **21**, 15121-15131 (2011).
23. Recent Advances in the Research of Inorganic Nanotubes and Fullerene-Like Nanoparticles, R. Tenne, Special issue edited by C.M.L. Lieber and H. Dong, *Frontiers of Physics* **9**, 370-377 (2014). DOI 10.1007/s11467-013-0326-8.
24. Inorganic Nanotubes and Fullerene-Like Nanoparticles: Synthesis, Mechanical-Properties and Applications, R. Tenne, R. Rosentsveig and A. Zak, *Phys. Stat. Solidi A* **210**, 2253-2258 (2013); With coverage.
25. Carbon and Tungsten Disulfide Nanotubes and Fullerene-Like Nanostructures in Thermoset Adhesives, G. Otorogust, A. Sedova, H. Dodiuk, S. Kenig and R. Tenne, *Rev. Adhesion Adhesives* **3**, 311-363 (2015). DOI: 10.7569/RAA.2015.097308; Scrivener Publishing LLC
26. On the Mechanical Properties of Inorganic Nanotubes and Fullerene-Like Nanoparticles – in-situ Electron Microscopy Measurements, I. Kaplan-Ashiri and R. Tenne, *The Journal of The Minerals, Metals & Materials Society (JOM)* **68**, 151-167 (2015); DOI: 10.1007/s11837-015-1659-2.
27. Concentrated Sunlight for Materials Synthesis and Diagnostics, E.A. Katz, I. Visoly-Fisher, D. Feuermann, R. Tenne and J.M. Gordon, *Adv. Mater.* **30**, 1800444 (2018) DOI: 10.1002/adma.201800444.

28. Nanocomposites Based on Tubular and Onion Nanostructures of Molybdenum and Tungsten Disulfides: Inorganic Design, Functional Properties and Application, A.Yu. Polyakov, A. Zak, R. Tenne, E.A. Goodilin and K. A. Solntsev, *Russ. Chem. Rev.* **87**, 251-271 (2018); DOI: <https://doi.org/10.1070/RCR4798> . DOI: <https://doi.org/10.1070/RCR4798>
29. Nanotubes from Misfit Layered Compounds, M. Serra and R. Tenne, Special issue honoring Prof. D. Meyerstein 80th birthday to *J. Coord. Chem.*, <https://doi.org/10.1080/00958972.2018.1485019> (2018).
30. An Overview of the Recent Advances in Inorganic Nanotubes, M. Serra, R. Arenal and R. Tenne, *Nanoscale* **11**, 8073-8090 (2019).
31. Nanotubes from Layered Transition Metal Dichalcogenides, J. Musfeldt, Y. Iwasa and R. Tenne*, *Physics Today* **8**, 42-48, August (2020).
32. Nanotubes from 2D Materials in Contemporary Energy Research: Historical and Perspective Outlook, A. Albu-Yaron, S.S. Sinha and R. Tenne, *ACS Energy Lett.* **5**, 1498-1511 (2020).
33. Quaternary Chalcogenide Compounds with Misfit Layered Structure, S. Aliev (Y. Elion) and R. Tenne, *Crystals* (MDPI), **10**, 468 (2020); doi:10.3390/cryst10060468.
34. Why do Nanocrystals of 2D Materials form Nanotubes and Why is That Important?, S.S. Sinha, M.B. Sreedhara and R. Tenne, "Opinion" paper to *Nano Today* **37**, 101060 (2020); <https://doi.org/10.1016/j.nantod.2020.101060>.
35. Nanotubes from layered transition metal dichalcogenides: Why do they form and what is their significance? M.B. Sreedhara, S.S. Sinha, A. Zak, L. Yadgarov and R. Tenne, *Zeit. Anor. Allgem. Chemie (ZAAC)*, e202200128, DOI: 10.1002/zaac.202200128 (2022); issue in honor of the 65th birthday of Mercurio Kanatzidis.
36. Opportunities and Challenges in Integrating 2D Materials with Inorganic 1D/0D Layered Nanostructures, T. Chowdhury and R. Tenne, *J. Mater. Res.* **38**, 267-280 (2023) DOI:10.1557/s43578-022-00843-4.
37. Nanotubes from Transition Metal Dichalcogenides: Recent Progress in the Synthesis, Characterization and Electrooptical Properties, L. Yadgarov and R. Tenne, *Small* (an issue dedicated to Ajayan 60th birthday), 2400503 (2024); DOI: 10.1002/sml.202400503.
38. Inorganic Nanotubes: From WS₂ to "Misfit" Layered Compounds, R. Tenne, *MRS Bulletin* **50** (2025); doi:10.1557/s43577-025-00909-8; Transcript of the Von Hippel Award presentation (2023).

Review articles

1. Stability of Cd-Chalcogenide Based Photoelectrochemical Cells, D. Cahen, G. Hodes, J. Manassen and R. Tenne, in: "Photoeffects at Semiconductor-Electrolyte Interfaces," A. Nozik, ed., *ACS Series*, **146**, 369 (1981).
2. The Importance of Solution Kinetics in Photoelectrochemical Phenomena, J. Manassen, D. Cahen, G. Hodes, R. Tenne and S. Licht, in: "Homogeneous and Heterogeneous Photocatalysis", Pelizzetti and N. Serpone, eds., Dordrecht Reidel, pp. 335-241 (1987).

Proceedings (refereed)

1. Charge Transfer Across Cd-Chalcogenide/Aqueous Polysulfide Interface Under Illumination and in the Dark. R. Tenne, Y. Mirovsky, B. Vainas, N. Müller, D. Lando, H. Flaisher, G. Hodes, D. Cahen and J. Manassen. in "*Photoelectrochemistry: Fundamental Processes and Measurement Techniques*," ed. W.L. Wallace, A.J. Nozik, S.K. Deb and R.H. Wilson, *Electrochem. Soc. Ser.* **83**, 172 (1982).
2. Characterization and Optimization of Polysulfide-Based Photoelectrochemical Cells Using Operational Parameters Derived by Optical and Electrochemical Methods. Y. Mirovsky, R. Tenne, J. Manassen, G. Hodes, N. Müller and D. Cahen. *Ibid.* **83**, 517 (1982).
3. Adsorption of Atomic Hydrogen on LiF Surfaces. V. Duval, M. Shapiro, Y. Zeiri and R. Tenne. *Dynamics on Surfaces*, B. Pullman *et al.* (eds.), Reidel Publishing Co. (1984).
4. Selective Electrochemical Etching of p-CuInSe₂. G. Dagan, R. Tenne, S. Endo and D. Cahen. *Ternary and Multinary Compounds*, S.K. Deb and A. Zunger, eds., Pittsburgh, Materials Research Society, pp. 133-138 (1987).
5. EBIC Studies of WSe₂ "Mixed" Surfaces. L. Margulis, D. Mahalu, E. Watkins, and R. Tenne, *Inst. Phys. Conf. Ser.* **117**, Sec.10, 767 (1991).
6. Shallow Donor States Removal by Photoelectrochemical Etching of Cd(Se,Te). R. Tenne, "*Proceeding of the Symposium on Electrochemical Microfabrication*", Electrochemical Society Series, Vol. 92-3, pp.164-172, Phoenix, October (1992).
7. Transmission Electron Microscopy of Nested Fullerenes and Nanotubes in Tungsten and Molybdenum Disulfides. L. Margulis, J. L. Hutchison, and R. Tenne, *8th World Ceramics Congress and Forum on New Materials*, Florence, June (1994). Published in *Advances in science and Technology*, **4**, 301 (1995).
8. Inorganic fullerenes of MX₂ (M=W,Mo;X=S,Se). R. Tenne, L. Margulis, Y. Feldman and M. Homyonfer, *Proc. of the Symposium on Fullerenes*, Materials Research Society, Fall Meeting, Boston, December (1994), Vol.359.
9. Preparation of Nested Fullerenes and Nanotubes Molybdenum Disulfide, Y. Feldman, L. Margulis, M. Homyonfer, and R. Tenne, *High Temperature Materials and Processes*, **15**,165 (1996).

10. Efficient Reduction of Nitrite and Nitrate to Ammonia Using B-Doped Diamond Electrodes, *Wide bandgap electronic materials*, C. Reuben, E. Galun, R. Tenne, R. Kalish, Y. Muraki, K. Hashimoto, A. Fujishima, J.E. Butler, and C. Lévy-Clément, NATO ASI Series, 3. High Technology, Eds. M. A. Prelas, P. Gielisse, G. Popovici, B.V. Spitsyn, and T. Stacy, **1**, 137 (1995).
11. Preparation of MoS₂ Thin Films, E.A. Ponomarev, D. Lahellec, A. Katty, M. Neumann-Spallart, G. Hodes, R. Tenne, and C. Lévy-Clément, *13th European Photovoltaic Solar Energy Conference and Exhibition*, Nice, October (1995).
12. Oriented WSe₂ Thin Films for Photovoltaic Application Prepared by van der Waals Rheotaxy, E. Galun, T. Tsirlina, H. Cohen, L. Margulis, G. Hodes, R. Tenne, A. Matthäus, S. Tiefenbacher, C. Koelzow, M. Kunst, K. Ellmer, and W. Jaegermann, *13th European Photovoltaic Solar Energy Conference and Exhibition*, Nice, October (1995).
13. Inorganic Fullerene-Like MS₂ (M=Mo,W) Structures: Synthesis, Reaction mechanism and Characterization, G.L. Frey, Y. Feldman, M. Homyonfer, V. Lakhovitskaya, G. Hodes, and R. Tenne, *11th International Winter School on Electronic Properties of Novel materials*, Kirchberg, March (1996).
14. Encapsulation and Crystallization Behavior Inside Carbon Nanotubes and Other Fullerene-Related Structures, J. Sloan, M.L.H. Green, J.L. Hutchison, and R. Tenne, *Fullerenes: Chemistry, Physics and New Directions, 19st Meeting Electrochem. Soc.*, Montreal, Canada, May (1997).
15. The Effect of Hollow Nanoparticles of WS₂ on Friction and Wear, L. Rapoport, Y. Feldman, M. Homyonfer, H. Cohen, S.R. Cohen, R. Tenne, *Proc. 25th Leeds-Lyon Symp. Tribology*, Lyon, September (1998). Published in: *Lubrication at the Frontier*, Ed. D. Dowson et al., Elsevier Science B.V. pp. 567-573 (1999).
16. Microstructure of Various MoS₂ Thin Films Prepared by Electrochemical Deposition and Annealing, Albu-Yaron, A. Katty, S. Bastide, R. Tenne and C. Levy-Clement, submitted.
17. Stability of Hollow Nanoparticles of WS₂ under Friction and Wear, L. Rapoport, Y. Feldman, H. Cohen, M. Lvovsky, Yu. Volovik, and R. Tenne, *Tribology Conf.*, Leeds (1999).
18. Nanoparticles of CdCl₂ with Closed Cage Structure, R. Popovitz-Biro, A. Twersky, Y. Rosenfeld Hachoen and R. Tenne, *Proceedings of the Kirchberg Winterschool on Electronic Properties of Novel Materials-Molecular Nanostructures* (2000), AIP Conference Proc. **544**, 441-446.
19. Mechanisms of Ultra-Low Friction by Hollow Inorganic Fullerene-Like MoS₂ Nanoparticles, L. Cizaire, B. Vacher, T. Le Monge, J.M. Martin, L. Rapoport, A. Margolin and R. Tenne, *Intl. Conf. of Metallurgical Coatings and Thin Films (ICFTC)*, San Diego, April (2002).
20. Modification of Contact Surfaces by Fullerene-Like Solid Lubricant Nanoparticles, L. Rapoport, V. Leshchinsky, Yu. Volovik, M. Lvovsky, O. Nepomnyashchy, R. Popovitz-Biro, and R. Tenne, *Intl. Conf. of Metallurgical Coatings and Thin Films (ICFTC)*, San Diego, April (2002).
21. Tribological Applications of Fullerene-Like WS₂ Nanoparticles, L. Rapoport, V. Leshchinsky, I. Lapsker*, Yu Volovik, O. Nepomnyashchy, M. Lvovsky, R. Popovitz-Biro⁺ and R. Tenne, *International Joint Tribology Conference (ASME/STLE)*, Cancun, Mexico, October (2002).
22. Attachment of Single Multiwall WS₂ Nanotubes and Single WO_{3-x} Nanowhiskers to a Probe, I. Ashiri, K. Gartsman, S.R. Cohen, R. Tenne, *Kirchberg Winterschool on Electronic Properties of Novel Materials-Molecular Nanostructures*, Kirchberg, April (2003).
23. Mechanical Properties of Individual WS₂ Nanotubes, I. Kaplan-Ashiri, S.R. Cohen, K. Gartsman, R. Rosentsveig, V. Ivanovskaya, T. Heine, G. Seifert, H.D. Wagner, and R. Tenne, *Kirchberg Winterschool on Electronic Properties of Novel Materials-Molecular Nanostructures*, Kirchberg, April (2004).
24. Direct Tensile Tests of Individual WS₂ Nanotubes, I. Kaplan-Ashiri, S.R. Cohen, K. Gartsman, R. Rosentsveig, V. Ivanovskaya, T. Heine, G. Seifert, H.D. Wagner, and R. Tenne, *Mater. Sci. Forum.*, **475-479**, 4097-4102 (2005); *The 5th Pacific Rim Intl. Conf. Adv. Mater. Process.* Beijing, November (2004).
25. Inorganic Fullerene-Like Nanoparticles as New Lubricant Additives: a Drug Delivery Mechanism, L. Joly-Pottuz, J.M. Martin, F. Dassenoy, C. Schuffenhauer, R. Tenne, and N. Fleischer, *3rd World tribology Congress*, Washington, September (2005).
26. Micro Raman Investigation of WS₂ Nanotubes, K. Gartsman, I. Kaplan-Ashiri, R. Tenne, P. Rafailov, and C. Thomsen, *Kirchberg Winterschool on Electronic Properties of Novel Materials-Molecular Nanostructures*, Kirchberg, March (2005).
27. Electric Transport Properties and H-1 NMR Study of the Fullerene-Like WS₂ Nanoparticles, F. Kopnov, G. Leitus, A. Yoffe, I. Feldman, A.M. Panich and R. Tenne, *Phys. Stat. Solid. B*, **243**, 3290-3296 (2006).
28. X-Ray Photoelectron Spectroscopy and Tribology Studies of Annealed Fullerene-Like Nanoparticles, F. Kopnov, R. Tenne, B. Späth, W. Jägermann, H. Cohen, Y. Feldman, A. Zak, A. Moshkovith, and L. Rapoport, in the *Proc. of NATO Advanced Study Institute, Functionalized Nanoscale Materials, Devices, and Systems*, Sinaia, Romania (2007).
29. Fullerene-Like MoS₂ Nanoparticles and Their Tribological Behavior, R. Rosentsveig, A. Gorodnev, N. Feuerstein, H. Friedman, A. Zak, N. Fleischer, J. Tannous, F. Dassenoy and R. Tenne, *Proc. Vien Nano09*, Vienna, March (2009).

30. Scaling-Up of the WS₂ Nanotubes Synthesis, A. Zak, L. Sallacan-Ecker, A. Margolin, Y. Feldman, R. Popovitz-Biro, A. Albu-Yaron, M. Genut and R. Tenne, IWFAC 2009, 9th Biennial International Workshop Fullerenes and Atomic Clusters, St. Petersburg, July (2009).
31. Large Scale Synthesis of WS₂ Nanotubes as Building Block for New Nanocomposites, A. Zak, L. Sallacan-Ecker, A. Margolin, M. Genut, R. Tenne, *Proc. 6th Int'l. Conf. Cond. Monitoring and Machinery Failure Prevention Tech.*, Dublin, June (2009).
32. Medical Applications of Self-Lubricating Coatings with Fullerene-Like (IF) WS₂ Nanoparticles, M. Redlich, A. Katz, G. Naveh, A.R. Adini, A. Gorodnev, L. Rapoport, A. Moshkovith, R. Rosentsveig and R. Tenne, 17th Intl. Workshop Tribology, Stuttgart, January (2010).
33. Metallic Films with Fullerene-Like WS₂ (MoS₂) Nanoparticles: Self-Lubricating Coatings with Potential Applications, O. Eidelman, H. Friedman and R. Tenne, *Proc. of the NATO-ASI meeting*, Chisinau, July (2010), A. Vaseashta et al. (eds.), Technological Innovations in Sensing and Detection of Chemical, Biological, Radiological, Nuclear Threats and Ecological Terrorism, *NATO Science for Peace and Security Series A: Chemistry and Biology*, DOI 10.1007/978-94-007-2488-4_6, © Springer Science+Business Media B.V. 2012.
34. Inorganic Nanotubes and Fullerene-Like Nanoparticles: From the Lab to Applications, *Proc. of the NATO-ASI meeting*, Yerevan, October (2012), A. Vaseashta et al. (eds.).
35. Nanoinduced Morphology and Enhanced Properties of Epoxy Containing Inorganic Fullerenes, M. Shneider, H. Dodiuk, R. Tenne and S. Kenig, *Proc. 29th meeting Polymer Process. Soc.-PPS-29*, Nuremberg, July (2013).
36. Fullerenes Fight Friction, Giant Inorganic Molecules Give Exceptional Performance as Dry Lubricants, M. Genut, N.A. Fleischer, A. Zak, L. Rapoport, R. Tenne, *ECJ - European Coatings Conf. "Smart Coatings V"*, Berlin, May (2006).
37. Impedance Characterization of SWCNT/WS₂-NT Hybrid Films, V.K. Ksenevich, N.I. Gorbachuk, H. Viet, A. Paddubskaya, A. Zak and R. Tenne, *Nanomeeting- Phys. Chem. and Application*, May, Minsk (2015).
38. Electrical Properties of Carbon Nanotubes/WS₂ Nanotubes (Nanoparticles) Hybrid Films, V.K. Ksenevich, N.I. Gorbachuk, H. Viet, M.V. Shuba, P.P. Kuzhir, S.A. Maksimenko, A.G. Paddubskaya, G. Valusis, A.D. Wieck, A. Zak and R. Tenne, 12th Biennial Intl. Conf. Advanced Carbon Nanostructures (ACNS'2015), St. Petersburg, July 2015. *NANOSYSTEMS: PHYSICS, CHEMISTRY, MATHEMATICS* 7 (1), 37–43 (2016).
39. Optical Properties of Multilayer Films of Nanocomposites Based on WS₂ Nanotubes Decorated with Gold Nanoparticles, A.Yu. Polyakov, A.V. Nesterov, A.E. Goldt, V. Zubuyuk, T. Dolgova, L. Yadgarov, B. Vicic, A.A. Fedyaniv, R. Tenne and E.A. Goodilin, *J. Phys.: Conf. Ser.* **643**, 012046 (2015); doi:10.1088/1742-6596/643/1/012046.
40. Synthesis of WS₂ Nanotubes, S.-J. Huang, C.-W. Tsao, W.-C. Wang, B. Visic and R. Tenne, *The 40th Conference on Theoretical and Applied Mechanics, CTAM2016*, Hsinchu, Taiwan, November (2016).
41. Can Inorganic Nanotubes Replace Carbon Nanotubes in Polymer Nanocomposites?" S. Kenig, H. Dodiuk and R. Tenne, *Preprints PPS (polymer processing Society)*, Lyon, France, June (2016).
42. Mechanical Properties Enhancement of Mg/WS₂ Inorganic Nanotubes Metal Matrix Composites, S.J. Huang, C.-C. Lin, J.-Y. Huang and R. Tenne, 16th Israeli-Russian Bi-National Workshop 2017, July, Ariel University.
43. Investigation of Single WS₂ Nanotubes Leads to New Observations and Potential Applications, R. Tenne, 232nd meeting of the Electrochem. Soc., National Harbor MD, October (2017).
44. Mechanical Properties Enhancement of MG/WS₂ Inorganic Nanotubes Metal Matrix Composites, S.-J. Huang, C.-C. Lin, J.-Y. Huang and R. Tenne, *Proc. of The Sixteenth Israeli - Russian Bi-National Materials Workshop 2017, MMC16*, Ariel University, August (2017). ISBN 978-965-7632-16-1 p127-134.
45. Strengthening of Mg/WS₂ and Al/WS₂ Inorganic Nanotubes Metal Matrix Composites, S.-J. Huang, W.-Y. Peng, B. Visic, A. Zak, C.-H. Ho, Y. Feldman, R. Tenne and A. Negash Ali, 10th Int. Conf. Mater., Tech. Modelling (MMT-2018), Ariel Univ., August (2018).
46. WS₂ Nanotubes Dressed in Gold and Silver: Synthesis, Optoelectronic Properties, and NO₂ Sensing, A.Yu. Polyakov, L. Yadgarov, V. Lebedev, R.G. Chumakov, L.V. Yashina, M.N. Rumyantseva, R. Tenne and E.A. Goodilin, *AIP Conf. Proc. on 2D Materials*, AIP Conf. Proc. 2359, 020025-1-3; <https://doi.org/10.1063/5.0055823>.
47. Comparison of Optoelectronic Properties of Doped and Pristine Nanotubes Based on Carbon and Tungsten Disulfide, M. Paukov, A. Goldt, G. Komandin, A. Syuy, D. Yakubovskiy, S. Novikov, A. Polyakov, R. Tenne, A. Zak, A. Nasibulin, A. Arsenin, V. Volkov and M. Burdanova, *Mater. Proc.* 2022, 9(1), 28; <https://doi.org/10.3390/materproc2022009028>.
48. Inorganic Nanotubes: From WS₂ to "Misfit" Layer Compounds, V. Kundrat, M. B. Sreedhara and R. Tenne, *Proc. 18th Int. Symp. Dielectric Mater. Appl. (ISyDMA'8)*, Orlando (Florida), May (2024) pp. 3-10; https://doi.org/10.1007/978-3-031-84809-4_1.

Submitted papers

1. Excitonic Features in WS₂ Nanotubes Revealed by Photoacoustic Spectroscopy, K. Misztal, A.K. Tołłoczko, V. Kundrat, R. Tenne and R. Kudrawiec.

Major write-up articles on my work

1. Faux Fullerenes, *Scientific American*, p. 24, February (1993).
2. Inorganic Material has Structure Similar to C₆₀, *Chem.&Eng. News* 7.12.92, p. 23 (1992).
3. Fullerenes Broaden Scientists' View of Molecular Structure, *Chem.&Eng. News* 4.1.93, p. 29 (1993)
4. Carbon Nanotubes, *Physics Today*, June 1996, p. 32 (1996).
5. Hollow nanoparticles excel in lubrication, *Chem.&Eng. News* 23.6.97, p. 9 (1997)
6. Hollow Nanoparticle Lubricants, *Physics Today*, September 1997, p. 9 (1997).
7. *Physics News in 1997* an addendum to *APS News*, Januray 1998 issue of the American Physical Society bulletin summarizing the main achievements in physics for the year 1997, p.8 (1998).
8. Nickel Chloride Forms Cages and Nanotubes, *Chem.&Eng. News* 5.10.98, p. 41 (1998).
<http://pubs.acs.org/cgi-bin/bottomframe.cgi?7640scicon>
9. NiCl₂ Molecular Magnets Form as Fullerenes and Nanotubes, *MRS Bulletin*, December 1998, p.6.
10. Odds Are Good for Bucky Magnets, *New Scientist* 26.9.98, p. 17 (1998).
<http://www.newscientist.com/article/mg15921533.200-flying-start.html>
11. Inorganic Onions, A.P.E. York, *Chem. Britain* (now *Chem. World*), **36**, 40-41 (2000).
12. Inorganic Fullerenes, Onions, and Tubes, Andrew P.E. York, *J. Chem. Edu.*, **81**, 673-676 (2004).
<http://jchemed.chem.wisc.edu/Journal/Issues/2004/May/abs673.html>
13. Science and Technology: Pipe dreams; Nanotechnology, *The Economist* (London), **369** (iss. 8347-25.10.03) 98.
http://www.economist.com/science/displaystory.cfm?story_id=E1_NTVVPQP
14. Inorganic Nanotubes, *Chem.&Eng. News*, The coverstory of the 29.8.05 issue, **85**, pp. 30-33 (2005).
<http://pubs.acs.org/cen/coverstory/83/8335inorganic.html>
15. Reshef Tenne named 2005 MRS Medalist for Inorganic Fullerenes, *MRS Bulletin* **30**, 750 (2005).
16. Inorganic Nanotubes and Fullerenes, *Chemistry*, A quarterly magazine of the ACS, September (2006).
http://www.chemistry.org/portal/a/c/s/1/acsdisplay.html?DOC=Chemistry\chemfa06\chem_feat_nanotubes.html
17. Tribochemistry, *Chem. & Eng. News*, 24.10.05 issue, p.56.
<http://pubs.acs.org/isubscribe/journals/cen/83/i43/html/8343sci1.html>
18. Sizing Up Nano-MoS₂ Properties, *Chem. & Eng. News*, 22.1.07 issue, **5**, 36 (2007).
<http://pubs.acs.org/isubscribe/journals/cen/85/i04/html/8504scicon.html#3>
19. Report on the MRS Fall meeting, *MRS Bulletin*, 32 (3), 273 (2007).
http://www.mrs.org/s_mrs/bin.asp?CID=8659&DID=193268&DOC=FILE.PDF&action=detail
20. Wikipedia: http://en.wikipedia.org/wiki/Reshef_Tenne; http://en.wikipedia.org/wiki/Inorganic_nanotube
21. Atomic Resolution, *Nature Materials*, **7**, 169 (2008) <http://www.nature.com/nmat/journal/v7/n3/pdf/nmat2139.pdf>
22. In "Nano Focus", C.-J. Liu, U. Burghaus, F. Besenbacher and Z.L. Wang, Eds. Preparation and Characterization of Nanomaterials for Sustainable Energy Production, *ACS Nano* **4**, 5517, 2010). [PDF](#)
23. *Physics Today*, The Amer. Phys. Soc. monthly Bulletin, November 2010, p. 34.
24. *Physics Today*, March 2014; Vol. 67, p. 22 <http://dx.doi.org/10.1063/PT.3.2273>.
25. Wikipedia value on molybdenum disulfide (https://en.wikipedia.org/wiki/Molybdenum_disulfide).
26. Wikipedia value on tungsten disulfide (https://en.wikipedia.org/wiki/Tungsten_disulfide).
27. Wikipedia value on nanotubes (<https://en.wikipedia.org/wiki/Nanotube>).
28. Wikipedia value on inorganic nanotubes (https://en.wikipedia.org/wiki/Inorganic_nanotube).
29. Wikipedia value on Reshef Tenne (https://en.wikipedia.org/wiki/Reshef_Tenne).

Books referring to my work

1. *Inorganic Nanotubes*, Chapter in the book *Nanotubes and Nanowires*, C.N.R. Rao (2006).
2. Physics-textbook for elementary schools, Czech publishing house Fraus (2007).
3. *Micromechanism*, Grolier Online encyclopedia (www.go.grolier.com) (2003).
4. *Nanotechnology - ABC book*, Ed. Yu.D. Tretyakov, Publishing house: FIZMATLIT, Moscow (2008). ISBN: 978-5-9221-0901-7.
5. *Nanomaterials- An Introduction to Synthesis, Properties and Application*. D. Vollath, WILEY-VCH (2008), Weinheim; pp. 300-304. 2nd Edition (2013).
6. *Nanoscience and Nanotechnology, A Collection of Reviews from Nature Journals*, World Scientific (2009).
7. *Nanotubes and Nanowires*, by CNR. C.N.R. Rao & A. Govindaraj, RSC Publications, 2011. Ch. 2, pp. 243-342. DOI 10.1039/9781849732840-00243
8. *Inorganic and Metallic Nanotubular Materials*, Ed. T. Kijima, Topics in Applied Physics 117, Springer (2010). DOI 10.1007/978-3-642-03622-4.
9. *Nanoparticles-Nanocomposites-Nanomaterials, an Introduction for Beginners*, D. Vollath, Wiley-VCH (2013).
10. *Nanowerkstoffe für Einsteiger*, D. Vollath, ISBN 978-3-527-33458-2 - Wiley-VCH, Weinheim (2014)

11. *Theoretical Modeling of Inorganic Nanostructures, Symmetry and ab-initio Calculations of Nanolayers, Nanotubes and Nanowires*, R.A. Evarestov, Springer; in the series Nanoscience and Technology, Vol. 76, Ch. 9- Sulfides (2015); ISBN 978-3-662-44580-8; DOI 10.1007/978-3-662-44581-5.
12. *Clay Mineral Nanotubes: Stability, Structure and Properties* (Ch. 1) in *Stoichiometry and Materials Science - When Numbers Matter*, H.A. Duarte, M.P. Lourenço, T. Heine and L. Guimarães. Dr. A. Innocenti (Ed.), ISBN: 978-953-51-0512-1, InTech, (2012). Available from: <http://www.intechopen.com/books/stoichiometry-and-materials-science-when-numbers-matter/clay-mineral-nanotubes-stability-structure-and-properties->
13. *Metal Chalcogenide Nanostructures for Renewable Energy Applications*, Ed A. Qurashi, John Wiley & Sons, Inc., Hoboken, NJ, USA. doi: 10.1002/9781119008934 (2014).
14. *Stem-Cell Nanoengineering*, in Ch. 5. Eds. H. Baharvand and N. Aghdami, Wiley-Blackwell, Hoboken NJ, ISBN 978-1-118-54061-9 (cloth) (2015).
15. *Theoretical Modeling of Inorganic Nanostructures*, R.A. Evarestov, Springer, Heidelberg (2015). ISBN 978-3-662-44580-8; DOI 10.1007/978-3-662-44581-5.
16. *Finite Element Modeling of Nanotube Structures Linear and Non-linear Models*, M. Awang, E. Mohammadpour and I.D. Muhammad, Springer, ISBN: 978-3-319-03196-5 (Print) 978-3-319-03197-2 (Online); DOI 10.1007/978-3-319-03197-2.
17. *Nanomaterials*, C.N.R. Rao and K. Biswas, John Wiley & Sons Inc, Hoboken, New Jersey. DOI 10.1002/9781118892671, ISBN: 978-1-118-89267-1; 978-1-118-83254-7.
18. *Two-Dimensional Transition-Metal Dichalcogenides*, A.V. Kolobov and J. Tominaga, Springer Series in Materials Science Vol. 239, ISBN 978-3-319-31449-5; ISBN 978-3-319-31450-1 (eBook); DOI 10.1007/978-3-319-31450-1.
19. *1D Oxide Nanostructures Obtained by Sol-Gel and Hydrothermal Methods*, C. Anastasescu, S. Mihailescu, S. Preda and M. Zaharescu, Springer Briefs in Materials, ISBN 978-3-319-32986-4 ISBN 978-3-319-32988-8 (e-Book) DOI 10.1007/978-3-319-32988-8.
20. *Advances in the Chemistry and Physics of Materials: Overview of Selected Topics*, Eds. S.J. George, C. Narayana and C.N.R. Rao, World Scientific (2019); ISBN 978-981-121-132-4.
21. *Theoretical Modeling of Inorganic Nanostructures*, 2nd Edition, R.A. Evarestov, Springer (2020), ISBN 978-3-030-42994-2 (eBook); <https://doi.org/10.1007/978-3-030-42994-2> (2020).
22. *Nanotubes and Nanowires: 3rd Edition*, C N R Rao, A Govindaraj, L Srinivas Panchakarla, RSC (2021); <https://pubs.rsc.org/en/content/ebook/978-1-78801-782-4>.
23. *Natural Minerals Materials*, H. Hashizume, NIMS Monographs-Springer (2002), ISBN 978-4-431-56924-4, <https://doi.org/10.1007/978-4-431-56924-4>

Patents

1. Photogalvanoelectrolytic Cell, R. Tenne, E. Bergmann and J.C. Courvoisier, PCT Patent, CH-8209/78 (1978) (abandoned).
2. Surface Treatment of Semiconductors for Photovoltaic and Photoelectrochemical Applications, G. Hodes, D. Cahen, J. Manassen and R. Tenne, Israeli Patent Application 58441 (1.3.1983), U.S. Patent 4,386,142 (31.5.1983).
3. Procédé d'acquisition de données bidimensionnelles par un système d'informatique, C. Lévy-Clément, R. Tenne and M.A. Ryan, NRS/YEDA, déposée 3.7.89 No. (dépot), FR-89-08-800 (abandoned).
4. Photostimulated gettering of deep bandgap impurities from semiconductors, R. Tenne. Israeli patent application 101214 (13.3.92) (abandoned).
5. Oriented Polycrystalline Thin Films of Transition Metal Chalcogenides, R. Tenne L. Margulis and G. Hodes. Israeli patent 102440 (8.7.92); 104513 (26.1.93); European patent EP 0 580 019 B1 (filing date 7.7.93; granted on 26.5.99); US patent 5,958,358 (issued 28.9.99).
6. Method and Apparatus for Preparing Inorganic Fullerene-Like Nanoparticles of Transition Metal Chalcogenides Having Predetermined Size and Shape, R. Tenne, G. Hodes, Y. Feldman, L. Margulis, and M. Homyonfer. Israeli patent application, 118378 (22.5.96), (abandoned).
7. Method for Preparation of Metal Intercalated Fullerene-Like metal chalcogenides, M. Homyonfer, R. Tenne, and Y. Feldman, Israeli patent application (28.11.96); PCT IL/97/00390 (27.11.97), WO 97 44278 (27.11.97); WO 98/23796; US 6,217,843 B1 (17.4.01); European EP 0 948 671 B1 (20.2.02).
8. Inorganic Fullerene-Like Structures of Metal Dihalides, Y. Rosenfeld-Hacohen and R. Tenne. Yeda No. 9855 (24.9.98). Abandoned.
9. Inorganic Fullerene-Like Nanocomposites, R. Tenne, A. Rothschild, J. Sloan, A.P.E. York, M.L.H. Green, and J.L. Hutchison (10.2.99). Abandoned.
10. Bulk Synthesis of Long Nanotubes of Transition Metal Chalcogenides, A. Rothschild, M. Homyonfer and R. Tenne, Isr. Patent Appl. 129718 (2.5.99). PCT/IL00/00251 (2.5.2000); US patent 6,841,142 (11.1.05); European patent No. EP 1 177 153 B1 (10.10.07).

11. Sonoelectrochemical Synthesis of Inorganic Fullerene-Like Nanoparticles of Metal-Chalcogenides, G. Hodes, R. Tenne, M. Homyonfer, and Y. Mastai, PCT WO 01/04382 A1 (18.1.01)/IL00/000408 (12.7.2000). Abandoned.
12. Hollow Nanoparticles as Solid Lubricants in Composite Metal Matrices, R. Tenne, L. Rapoport, M. Lvovsky and Y. Feldman, IL 134892 (6.3.00); PCT WO 01/66676 A2 (13.9.01); US Patent No. 6,710,020 (allowed 23.03.04); Euro. Pat. Appl. No. 01910116.1 (allowed 26.5.06); Chin. Pat. App. No. 01805881.7 (allowed 24.4.06).
13. Inorganic Fullerene-Like Tungsten Disulfide Hollow Nanoparticles and Nanotubes (Reactors for Production of Inorganic Fullerene-Like WS₂ Hollow Nanoparticles and Nanotubes), R. Tenne, Y. Feldman, A. Zak, R. Rosentsveig. 6.3.00 IL 134891 (6.3.00); PCT WO 01/66462 A2 (13.9.01); Isr. Patent Appl. No. 151094; PCT/IL01/00211; Chinese Pt. No. ZL 01806119.2 (13.4.05); European patent EP1263682B1 granted (3.1.07); US issued 7,524,481 B2 (28.4.09).
14. Method and Apparatus for Producing Inorganic Fullerene-Like Nanoparticles, R. Tenne, Y. Feldman, A. Zak and R. Rosentsveig. Euro. Patent No. 1 334 063 (16.4.05); US patent No. 7,018,606 B2 28.3.06 (original); Allowed Isr. Patent Appl. 155270 (27.1.06); Japanese patent No. 537925/02 (18.8.08); US patent 7,641,869 (allowed 5.1.10) being Continuation of US 7,018,606.
15. Closed Cage Nanostructures of Cesium Oxide and Device Used in Handling Such Structures, R. Tenne and A. Albu-Yaron. PCT WO 2006/075317 A2, filed 11.1.06. Abandoned.
16. Superconducting Structures and use Thereof in Electronic Devices, A. Johansson, D. Shahar and R. Tenne, US provisional application No. 60/663,209. Abandoned.
17. Process and Apparatus for Producing Inorganic Fullerene-Like Nanoparticles, R. Tenne, A. Margolin, R. Popovitz-Biro and L. Rapoport. US Patent No. 7,641,869- granted 5.1.2010 and US Patent No. 7,959,891-granted 14.6.11. Japanese patent No. 5179348-granted 18.1.13; WO 2006/106517 A2 (published 12.10.06). EU appl. 06728235.0-1218-IL2006000434 (6.4.06)
18. Low Friction Coatings for Use in Dental and Medical Devices, A. Katz, M. Redlich, L. Rapoport and R. Tenne (U.S. Provisional Patent Application No. 60/681,443 filed 17.05.2005); PCT/IL2006/000578; WO 2006/123336. US 9,877,806 (30.1.18).
19. Synthesis of WS₂ and MoS₂ Fullerene-Like Nanoparticles from Solid Precursors, R. Tenne and I. Wiesel, US appl. No. 61/144,792 (filed 15.1.09). Abandoned.
20. Core-Shell Inorganic Nanotubes from Layered Compounds, R. Tenne, R. Kreizman, Y.S. Hong and M.L. Deepak, U.S. Provisional Patent Application No. 61/112,795 (filed 11.08); PCT Application No. IL2009/001054 (filed 10.2.10) WO 2010/052721 A2 (14.5.2010). Abandoned.
21. Fullerene-Like Nanostructures, Their Use and Process for Their Production, R. Tenne, F.L. Deepak, H. Cohen, and S.R. Cohen, PCT WO 2009/034572 A1 (filed 19.3.09 priority date 10.9.07); Euro. Appl. No. 08808021.3; US 60/971,057. US Patent No. US 8,329,138 B2 (11.12.2012) and 8,518,364 (27.8.2013) Yeda: 2007-024.
22. Fullerene-Like Nanostructures, Their Use and Process for Their Production, R. Tenne, R. Rosentsveig and L. Yadgarov, CIP of US IL2008/001213 (PCT WO 2009/034572 A1), submitted on 10.3.10. Allowed 27.9.12 (Yeda: 2010-103). Patents issued in China, Europe (France, Germany, Italy, UK, patent no. 2 545 001) and the US (patent no. 9,496,067 B2).
23. Endodontic Files and Method of Preparation Thereof (Alleviating fatigue of root canal (NiTi) files by self-lubricating coatings), R. Tenne, A.R. Adini, Y. Feldman, M. Redlich, J. Moshonov and B. Shay, submitted on 21.6.10; Reg. No. 61/356,720. PCT/IL2011/000493; US patent 9,155,595 B2 (13.10.2015). Abandoned.
24. Controlled Doping of Fullerene-Like Hollow Cages Nanoparticles of MS₂ 2010/016 filed as CIP to 2007/024 (No. 21). 2.2.2010, US Patent 8,518,364 B2 (27.8.13) R. Tenne, R. Rosentsveig and L. Yadgarov.
25. Ordered Stacked Sheets of Layered Inorganic Compounds, Nanostructures Comprising Them, Processes for their Preparation and Uses Thereof, R. Tenne, G. Radovsky and R. Popovitz-Biro, US 61/549,358, submitted on 20.10.11. US 2014/0287264 A1, Published 25.9.14; PCT Application No. PCT/IL2012/050412 (18.11.2012 Yeda's Ref. No.; 2011-068). WO 2013/057732 on the 25.4.13. Abandoned.
26. Metal Nanoparticle Deposited Inorganic Nanostructure Hybrids, Uses Thereof and Processes for Their Preparation, R. Tenne and Y. Tsverin, U. Burghaus and M.R. Komarneni, Serial No. 61/619,080 (2.4.2012); US 9,242,231 B2 (26.1.16). Abandoned.
27. Composites of Conductive Polymers and Inorganic Nanotubes and Fullerene-Like Materials, R. Tenne, A. Voldman and D. Zbaida, US provisional (No. 61/725,750) 13.11.12; PCT/IL2013/050933, 13.11.13. Published on 22.05.2014 as WO 2014/076693. Abandoned.
28. Fullerene-Like Nanoparticles and Inorganic Nanotubes as Host Electrode Materials for Sodium Ion Batteries, R. Tenne, R. Rosentsveig, L. Yadgarov, S.Y. Hong and K.T. Lee, US No. 61/836,359 (18.6.13). PCT/IL2014/050550 (18.6.14); WO 2014/203251 A1 (24.12.14). USP201361836359. Abandoned.
29. Processes for Obtaining Inorganic Nanostructures Made of Oxides or Chalcogenides of Two Metals, R. Tenne, O. Brontvein, J. Gordon and D. Feuerman, US provisional (No. 61/693,801) 28.8.12; PCT/IL2013/050732 28.8.13. WO2014/033718 A1 6.3.14; EP13763305.3-1354 (28.3.13); US 2014/0005040 A1 (published 2.1.2014). Abandoned.

30. Attenuation of Encrustation of Urological Medical Devices Using Coatings of Inorganic Fullerene-Like Nanoparticles, R. Tenne, R. Ron, D. Zbaida, I. Kafka and I. Leibovitch. Appl. No. 61/923,841; 6.1.14. PCT No. 2322977. Published as WO 2015/102006 (9.7.15); US 11,446,413 (20.9.22).
31. Inorganic Nanomaterials, R. Tenne and L.S. Panchakarla and G. Radovsky, US Appl. No. 61989859 (EFS ID-18970696) 7.5.14. Abandoned.
32. Metal Alloy Composites, R. Tenne, S.-J. Huang and C.-H. Ho; US-No. 62/169,094 (1.6.15) and TW Application no. 104143509, filed 24.12.2015; PCT/IL2016/050563 (1.6.2016); PCT WO 2016/193974 (8.12.16). TW-Approval 5.10.17.
33. Fullerene-Like Nanoparticles and Inorganic Nanotubes as Host Electrode Materials for Sodium/Magnesium Ion Batteries, R. Tenne, S.Y. Hong, R. Rosentsveig, L. Yadgarov, K.T. Lee, CIP of WO 2014/203251 A1 (No. 28 in my list), US 14/973,152 (17.12.15). Abandoned.
34. Particles Coated by Inorganic Layered Compounds, A. (Lutin) Lavie and R. Tenne, US provisional # 62/312,486 Yeda's ref: 2016-019 (24.3.16); PCT (23.3.17). WO 2017/163250 A1 (28.9.17)
35. Electromechanical Resonators Based on Metal-Chalcogenide Nanotubes, Y. Divon, R. Levi, D. Yudilevich, A. Yaakovovitz, E. Joselevich and R. Tenne, "Yeda" Ref: 2016-055 (27.12.16); PCT/IL2017/051394 (27.12.17); P-80462-CN Allowed in China 3.2.21; US 11,411,551 (9.8.22). A Continuation application, US Appl. 17/853,987 (30.6.2022). US 2022/0337222 A1(20.10.22)
36. Metal Alloy Composites, S.-J. Huang, J.-Y. Huang and R. Tenne, Taiwanese; (original) TWA 104143509 (24.12.15); (updated) TWA 10621020240; PCT/IL2016050563; US/01.06.15/USP201562169094.
37. Hydroxyapatite Based Composition and Films Thereof, H. Shalom, L. Rapoport and R. Tenne (22/2/18). Yeda: 20180180000, US 2022/0049087 A1 (17.2.2022).
38. Nanocomposite of Biodegradable Polymers and Inorganic Nanoparticles, Methods of Preparation and Uses Thereof, H. Shalom, R. Tenne and N. Lachman-Senesh (26.12.18); US 62/924,190 (22.10.19); PCT/IL2019/051419 (26.12.19); National phase in the US; Canada and Europe (27.6.21). PCT WO 2020/136656 A1 (2.7.20). Published US2022/0073733 A1 (10.3.22).
39. Filaments for 3D Printing of Nanocomposite of Poly L-Lactic Acid with Inorganic Nanotubes of WS₂, N. Lachman-Senesh, R. Tenne, H. Shalom, Y. Meir.
40. Hydroxyapatite Based Composition and Film Thereof, R. Tenne, H. Shalom and O. Golan, US CIP to Yeda 2018-018 (US 16/970,958) from 19.8.21, Nat. Phase Appl. of PCT Int. App. PCT/IL2019/050203 from 21.2.19, based on IL. 257697 from 22.2.18.
41. Radiation Induced Radical Curing by Semiconducting Nanoparticles, S. Kenig, H. Dodiuk, Natali Yosef-Tal, R. Tenne, R. Carmielli, Appl. No 292915 (P-611869-IL), 10.5.22; PCT appl. (10.5.23).

Reports

1. The Photo-Enhanced Water Electrolysis. R. Tenne. Battelle (Geneva) Report No. 193-8314 (1979).
2. Optimization of the Internal Resistance of Lead/Acid Cells Using a Three-Dimensional Approach. R. Tenne, G. Meda, E. Bergmann, S. Amara. Battelle Report No. 6237 (1979).

Invited/keynote and plenary talks (Conferences & meetings)

1. *Charge Transfer across Cd-Chalcogenide/Aqueous Polysulfide Interface under Illumination and in the Dark*, 160th Meeting of the Electrochemical Society, Denver, Col., USA (1981).
2. *Characterization and Optimization of Polysulfide Based Photoelectrochemical Cells Using Operational Parameters Derived by Optical and Electrochemical Methods*, 160th Meeting of the Electrochemical Society, Denver, Col., USA (1981).
3. *Improved Opto-Electronic Performance of Semiconductors by Means of (Photo) Electrochemical Etching*, International Electrochemical Society, Berkely, California, USA (1984).
4. *Passivation of Recombination Centers by (Photo) Electrochemical Etching of Semiconductor Surfaces*, Electrochemical Society Meeting, Toronto, Canada (1985).
5. *Light Induced Etching of Semiconductors*, Gordon Conference, Santa Barbara (1985). Short presentation.
6. *Low Bandgap Materials for Photovoltaic Application*, 4th Bordeaux--Weizmann Meeting: Advanced Materials, Weizmann Institute of Science, Rehovot, Israel (1986).
7. *Light Induced Etching of Semiconductors: Interplay Between Kinetics and Thermodynamics*, 53rd Meeting of the Israeli Chemical Society, Ben-Gurion University.
8. *"Photoelectrodes semi-conductrices"* (GRECO), Meeting of the French Photoelectrochemistry Group, Ecole Polytechnique Massy-Palaiseau (1988).
9. *Photoconductivity Measurements of the CdTe-ZnTe Superlattices*, H. Strikman, D. Mahalu and R. Tenne, 7th International Conference on Photochemical Conversion and Storage of Solar Energy (IPS7), Chicago (1988). Short presentation.
10. *Passivation of Recombination Centers*, 40th International Electrochemical Society Meeting, Kyoto, (1989).

11. *New Process for Optical Data Recording by Photoelectrochemical Etching* (with C. Lévy-Clément), "Biochemical, Photonic and Electronic Processes of Molecular Functional Interfaces", Tokyo (1989).
12. *Morphological and Optical Aspects of Rough Semiconductor Surfaces Produced by Photoelectrochemical Etching*, in "The Chemistry and Physics of Composite Media", Symposium the Electrochemical Society Spring Meeting, Montreal, Canada (May 1990).
13. *Passivation of Semiconductor Surfaces Using Photoelectrochemical Etching*, "Frontiers in Quantum Solar Energy Conversion", Nassfeld, Austria (1990).
14. *Passivation of Recombination Centers on Isotropic and Anisotropic Semiconductors*, 1st US-Israel Energy Conversion Forum, Shores, Israel (1990).
15. *New Optical and Electronic Properties of Surface Modified WSe₂*, Symposium on "Semiconductor Photoelectrochemistry", Electrochemical Society Meeting, Washington, USA (May 1991).
16. *Preferential Etching of Impurities from Semiconductor Surfaces*, Symposium on "Electrochemical Microfabrication", Fall Meeting of the Electrochemical Society, Phoenix, USA (October 1991).
17. *Tailoring Semiconductor Surfaces for High Photoresponse*, "Frontiers of Electrocatalysis", Sapporo, Japan (September 1991).
18. *Gettering Deep Impurities from Semiconductor Surfaces Using Resonance Excitation Photoelectrochemical Etching: Fe from Cd_{0.98}Fe_{0.02}Se*, M. Homyonfer, H.-H. Strehblow, W. Girit, and R. Tenne, selected for the *Late News Session* of the II-VI-91 Conf., Okayama, Japan (September 1991). Published in *J. Cryst. Growth* **117**, 1080 (1992).
19. *Porous Si and Opto-electronic Material*, Annual Symposium of The Israeli Vacuum Society, Tel Aviv (January 1992).
20. *How to Get Impurities in and Out of Semiconductors at Room Temperature*, Symposium on Characterization of Semiconductor Thin Film and Interfaces, Fall (182th) Meeting of the Electrochemical Society, Toronto, Canada (October 1992).
21. *Vapor deposition of oriented W(Mo)S₂ thin films*, Symposium of the Israeli Association of Crystal Growth, Rehovot (November 1992).
22. In the symposium on *Synthesis in Solid State Chemistry*, a *Symposium in honor of Aaron Wold*, ACS meeting, Denver (March 1993).
23. In the symposium 5th Workshop: *Frontiers in Quantum Solar Energy Conversion*, Breil/Brigels, Switzerland (March 1993).
24. *Chemical Characterization and Opto-Electronic Properties of Porous n-Type Silicon Synthesized by Photoelectrochemical Etching*. C. Lévy-Clément, A. Lagoubi, M. Neumann-Spallart, M.A. Ryan, and R. Tenne, Symposium *Solar Energy Conversion*., Spring (183th) Meeting of the Electrochemical Society, Hawaii (May 1993).
25. *Layered metal dichalcogenide Semiconductors: From Single Crystals to Nanocrystallites*. Russia-Israel Binational symposium on Modern Materials, Tel-Aviv (January 1993).
26. *Nested Inorganic Fullerenes*. Isr. Chem. Soc. Meeting, Ben-Gurion University (February 1994).
27. *Giant Nested Fullerenes of Molybdenum and Tungsten Dichalcogenides*. R. Tenne et al., Electrochemical Society Fall Meeting, New Orleans (October 1993).
28. *Nested Fullerene-like Structures of MX₂*, R.Tenne, L. Margulis and G. Hodes, *New Trends in Photoelectrochemistry*, Tokyo, March (1994).
29. *Inorganic Fullerenes*, New England Section of the Electrochemical Society, December (1994).
30. *Inorganic Fullerenes*, Department of Physics Club, MIT, December (1994).
31. *Inorganic Fullerene-like Structures and Nanotubes of MX₂*, Symposium on Fundamental and Applied Studies of 2-D Metal Chalcogenide materials, Electrochemical Society Meeting, Chicago (1995).
32. American Chemical Society Meeting, Symposium: "Electrochemical Surface Science in the International Scene", Orlando August (1996).
33. *Inorganic fullerene-like material and nanotubes, and crystalline films on amorphous substrates*, KU-Leuven-Weizmann symposium on Surfaces and Interfaces in materials, Leuven (1996).
34. *Inorganic Fullerene-like Materials from 2-D Layered Compounds*, Euroconference: International Winter School on Fullerene and Fullerene Nanostructures, Kirchberg, March (1996).
35. *Diamond Electrochemistry*, Gordon Conference on Diamond Research, Plymouth College (New-Hampshire), August (1996).
36. *2-D Crystallization of Layered Metal Dichalcogenides on Amorphous Substrates*, in Photoeffects at Semiconductor-Liquid Interface, 211 ACS Meeting, New Orleans, March (1996).
37. *Inorganic Fullerene-like Structures and Nanotubes of MX₂ (M=W,Mo;X=S,Se)*, 1st Union of Israeli Materials Societies, Netanya, April (1996).
38. Discussion leader in 3rd *Europ. Workshop Electrochem. Processing Semiconductors*, Paris, November (1996).
39. *Semiconductor/p-type Diamond Junctions*, 192st meeting of the Electrochemical Society, Paris, September (1997) (not attended)

40. *Application of Inorganic Fullerene-like Materials as Tribological nanocomposites*, R. Tenne et al., 191st Meeting of the Electrochemical Society, Montreal, May (1997).
41. *Fundamental and Applications of Diamond Films*, Tokyo, March (1997). (not attended)
42. *Inorganic fullerene-like structures: synthesis, characterization and potential applications*, Isr. Chem. Soc. Meeting, Tel-Aviv, February (1998) *.
43. *Electrochemistry and photoelectrochemistry of inorganic fullerene-like MoS₂ (WS₂)*, 49th ISE Annual Conference, Kita Kyushu, Japan, September (1998) **.
44. *Inorganic fullerene-like materials*, Meeting of the European Network on Nanotubes, NAMITEC-NEDO, Nantes, France, October (1997).
45. *Inorganic nanotubes*, XII Intl. Winterschool, Electronic Frontier of Novel Mater., Kirchberg, Austria, March (1998).
46. *Tribological applications of inorganic fullerene-like materials*, MRS fall meeting, "5th Intl. Meeting of Dynamics in Small Confining Systems", Boston, US, December (1998).
47. *Inorganic fullerene-like materials and nanotubes*, MRS fall meeting, session on "Carbon Nanotubes, Fullerenes and Related Carbon Materials", Boston, US, December (1998).
48. *Diamond electrochemistry: a critical review*, "2nd Intl. Symp. Diamond Electrodes", Univ. Tokyo, June (1998).
49. *Fullerene-like materials and nanotubes from inorganic layered compounds*, Isr. Chem. Soc. Symp. in Honor of Wolf Prize Recipients (G. Hertel and G. Somorjai), Tel-Aviv, May (1998).
50. *Fullerene-like materials and nanotubes from inorganic layered compounds*, Slovenia-Israel meeting New Mater., Ljubljana, August (1998).
51. *Fullerene-like materials and nanotubes from inorganic layered compound***, 49th meeting Intl. Electrochem. Soc., Kitakyushu, September (1998).
52. *Fullerene-like materials and nanotubes from inorganic layered compounds: status report*, Electrochem. Ordered Interfaces, Sapporo, September (1998) **.
53. *Study of semiconductor interfaces with the Van de Graff*, Symp. for the 40th Anniversary of the Rehovot Van de Graff, Rehovot, October (1998).
54. *Fullerene-like materials and nanotubes from inorganic layered compounds: status report*, Binational Israel-Japan Symposium on Supramolecular Materials, Jerusalem, February (1999).
55. Sixth Intl. Conf. Composite Eng., ICCE/6, July (1999) Orlando, USA (not attended).
56. 3rd Intl. Mini-Symposium Diamond Electrochem. Related Topics, June, Tokyo (1999).
57. 2nd Chemsitry and Physics of Multifuntional Materials, Sant Feliu de Guixols, Spain, September 1999.
58. Photoelectrochemistry symposium of the 196th Electrochem. Soc. Meeting, Hawaii (1999) (not attended)
59. *Nanotubes*, The 9th Israeli Materials Engineering Conference (IMEC-9), Haifa, December (1999).
60. *Inorganic fullerene-like materials and inorganic nanotubes*, 18th Annual Meeting of the Isr. Vac. Soc., Weizmann Institute, November (1999).
61. *Inorganic fullerene-like materials and inorganic nanotubes*, Kirchberg Meeting, March (2000).
62. 7th Annual Intl. Conf. on Composites Engineering, Denver, July (2000).
63. *Frontier-Science Research Conference, Science and Technology of Crystal Growth and Epitaxy*, April, La Jolla, CA (2000).
64. *Fullerene-like materials and nanotubes from inorganic layered compounds*, Isr. Chem. Soc. Symp. in Honor of Wolf Prize Recipients (F. A. Cotton), Tel-Aviv, May (2000).
65. *Fullerene-like materials and nanotubes from inorganic layered compounds*, NTS, Zichron Yaakov, May (2000).
66. *Fullerene-like materials and nanotubes from inorganic layered compounds*, 5th Fullerenes and Atomic Clusters, St. Petersburg, July (2001).
67. *Hollow nanoparticles of WS₂ as superior solid lubricant*, AGIL 2000 and Mediterranean Symp. Tribology, Jerusalem, November (2000).
68. *Inorganic fullerene-like materials and inorganic nanotubes: from synthesis to applications*, Nanotube 2001, Berlin, July (2001).
69. First International Conference on Applied Statistical Physics: Molecular Engineering (ASTAPHYS-MEX-2001)" (July 2001). (not attended)
70. *Inorganic fullerene-like materials and inorganic nanotubes from layered compounds*, Symposium on the Impact of solid state and materials chemistry on current technologies of the April ACS meeting, San-Diego (2001).
71. *Inorganic fullerene-like materials and inorganic nanotubes from layered compounds*, 35th Meeting of the Isr. Micr. Soc., Technion, May (2001).
72. *Inorganic fullerene-like materials and inorganic nanotubes from layered compounds*, EPFL-ETH-WIS-UCSB meeting, Lausanne, September (2001).
73. *Inorganic fullerene-like materials and inorganic nanotubes from layered compounds*, 2nd Japan-Israel Symposium on Supramolecular Chemistry, Osaka, October (2001).

74. *Solid state synthesis and characterization of inorganic nanotubes and inorganic fullerene-like materials*, Intl. Symp. Solid State and Mater. Chem., Indian Institute of Science, Bangalore, December (2001).
75. *Inorganic fullerene-like materials and inorganic nanotubes from layered compounds*, Workshop on Advanced Materials, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, December (2001).
76. *Inorganic fullerene-like materials and inorganic nanotubes from layered compounds*, Nanotec-01 Sussex University, September (2001)**.
77. *Applications of inorganic fullerene-like materials*, 67th Isr. Chem. Soc., Jerusalem, January (2002).
78. *Inorganic fullerene-like materials and inorganic nanotubes from basic science to applications*, Symp. Am. Comm. for the Weizmann Institute, Palm Beach, January (2002).
79. *Inorganic fullerene-like materials and inorganic nanotubes from basic science to applications*, 14th US National Congress of Applied Mechanics, Virginia Tech, June (2002).
80. *Inorganic fullerene-like structures and inorganic nanotubes, new nanomaterials for electrochemistry, photoelectrochemistry and photocatalysis*, IPS-14, Sapporo, August (2002).
81. *Inorganic fullerene-like structures and inorganic nanotubes*, VIth Intl. Symp. on Self-Propagating High-Temperature Reactions, Haifa, February (2002).
82. *Inorganic fullerene-like structures and inorganic nanotubes*, Nanoparticle Symp., 201st (Centenary) Meeting of the Electrochemical Society, Philadelphia, May (2002).
83. *Tribological behavior of inorganic fullerene-like nanoparticles*, L. Rapoport and R. Tenne, Meeting of the Isr. Soc. Mater. Processing, Ramat Efal, October (2001).
84. *Recent progress in the synthesis and characterization of nanotubes and fullerene-like nanoparticles from 2-D layered compounds*, Fullerenes and Nanotubes Symp., 201st ECS Meeting, Philadelphia (2002).
85. *Inorganic fullerene-like structures and inorganic nanotubes, new nanomaterials for electrochemistry, photoelectrochemistry and photocatalysis*, Annual Meeting of the Electrochemical Soc. (Israeli Section), Bar-Ilan University, June (2002).
86. *Inorganic fullerene-like structures and inorganic nanotubes*, Elsevier 3rd Intl. Conf. Inorganic Materials, Konstanz, September (2002).
87. *Inorganic nanotubes and fullerene-like materials from layered compounds: from concept to applications*, 7th FIGIPS Conf. on Inorganic Chemistry, Lisbon, June (2003)*.
88. *Inorganic nanotubes and fullerene-like materials from layered compounds: from concept to applications*, Gordon Research Conference, Oxford, September (2003).
89. *Inorganic nanotubes and fullerene-like materials from layered compounds: from concept to applications*, World Technology Summit 2003, New York, April (2003)*.
90. *Inorganic nanotubes and fullerene-like materials*, The Gerischer Symposium (opening session), 203rd ECS Meeting, Paris, May (2003).
91. *Inorganic nanotubes and fullerene-like materials, from concept to applications**, Inter. Mater. Congress. Cancun, Mexico, August (2003)*.
92. *Inorganic nanotubes and fullerene-like materials*, Gordon Conference, "Modern Developments in Thermodynamics", Ciocco in Castelvechio Pascoli, Toscana, May (2003), (not attended)
93. *Inorganic nanotubes and fullerene-like materials*, "Nanotubes-03", Seoul, Korea, July (2003).
94. *Inorganic nanotubes and fullerene-like materials*, "NanoCenter Inaguration Symp.", Hebrew University, Jerusalem, November (2003).
95. *Inorganic nanotubes and fullerene-like materials*, The 5th Pacific Rim Intl. Conf. Adv. Mater. Process, Beijing, November (2004).
96. 3rd Singapore International Chemical Conference (SICC-3), Singapore, December 2003 (not attended)
97. *Inorganic nanotubes and fullerene-like materials*, ESF Conf., "From Clever Molecules to Smart Materials Euroconference", Tomar, Portugal, September (2004).
98. *Inorganic nanotubes and fullerene-like materials*, Germany-Israel meeting on Nanochemistry, Marburg, May (2004).
99. *New inorganic nanoparticles: from concept to applications*, Day of Science of the Weizmann Institute in the UN Headquarters, New York July (2003).
100. *New inorganic nanoparticles: from concept to applications*, Discourse for the Weizmann Friends in the UK, Royal Institution of London May (2004).
101. *Inorganic nanotubes and fullerene-like materials*, Frontiers in Chemical Physics Workshop, U. of Tennessee, February (2004).
102. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, Poland-France-Israel Meeting on Spectroscopy of Modern Materials, Poznan, September (2004).
103. *Discussion leader of the Materials Section*, World Technology Summit, San Francisco, October (2004).
104. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, Sweden-Israel Forum on Applications of Nanotechnology for Water Treatment, October (2004).

105. *Inorganic nanomaterials: from concept to applications*, “Science on Sea” (Weizmann Institute Cruise), October (2004).
106. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, The 1st Intl. Conf. on One Dimensional Nanomaterials, Taipei, January (2005).
107. *Mechanical properties of inorganic nanotubes and fullerene-like materials (IF)*, Isr Chem. Soc. Meet., Tel-Aviv, February (2005).
108. Inorganic Nanomaterials, Europ. Ceram. Soc., Portoroz, Slovenia, June (2005). (not attended)
109. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, German-Israeli Meet. Nanotubes Nanowires, Dresden, June (2005).
111. *The use of electron microscopy in the research of inorganic nanotubes and fullerene-like material.*, XII Intl. Conf. Microscop. Solids, Kazimierz Dolny, Poland, June (2005)**.
111. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, Univ. Louis Pasteur-Weizmann Institute Meet., Strasburg, September (2005)**.
112. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, Annual meeting of the Nano-Center of Tel-Aviv University, Maagan, April (2005)**.
113. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, special seminar, Univeristy of California at Los Angeles, May (2005).
114. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, Nanowires symposium, Annual meeting, Am. Inst. Chem. Eng. (AIChE), Cincinnati, October (2005).
115. *Inorganic nanotubes and fullerene-like materials: from concept to applications*, Eco-Nano Conference, Tel-Aviv University, May (2005).
116. *New nanomaterials from concept to applications*, Symposium “Research-Training in Nanosciences and Nanotechnologies: Current Status and Future Needs”, EU Headquarter, Brussels, April (2005).
117. 71st Isr. Chem. Soc. Meeting, Tel-Aviv, February (2006)*.
118. Jubilee Symposium on Nanotechnology of Bar Ilan University May (2006).
119. International Conference of Nanoscience and Technology (ICONSAT 2006), New Delhi, March (2006).
120. E-MRS, Nice, France, June (2006).
121. MRS Meeting (MRS Medal presentation), Boston, November (2005)**
122. 7th Isr. Sec. Electrochm. Soc., Bar-Ilan Univ., March (2006)*.
123. 12th Isr. Mater. Eng. Conf. (IMEC-12), March (2006)*.
124. MRS- Fall meeting, Boston, November (2006).
125. FullMat IHP network of the EU, Budapest, April (2006)*.
126. Isr. Innov. Summit, Haifa, April (2006)**.
127. Micro- to Nano-Photonics ROMOPTO Meeting, Sibiu, Romania, August (2006)*.
128. Minerva School on Biological and Bio-inspired Materials, Berlin, May (2007).
129. NATO Advanced Study Institute, Functionalized Nanoscale Materials, Devices, and Systems, Sinaia, Romania (2007).
130. IUMRS-ICAM 2007, International Conference on Advanced Materials, Bangalore, October (2007).
131. Israel-Taiwan meeting on Advanced Nanotechnologies, Jerusalem, May (2007).
132. First International Meeting on Recent Developments in the Study of Radiation Effects in Matter. Playa del Carmen, Q. Roo, México, December (2006).
133. Lectures to professors and students via Video Conferencing at the invitation of Prof. Atta-ur-Rahman, FRS Chairperson, the Higher Education Commission of Pakistan, October (2007)
134. LASERION 2007, Schloss Ringberg, Germany July (2007)
135. Israel-Germany Workshop on HRTEM, Technion City, Haifa, October (2006)
136. 4th All-Russian Kargin conference, "Polymer Science for 21st Century", Moscow, January (2007)
137. First Symposium on Transition Metal Chalcogenide Nanostructures (TMCN07), Dresden, March (2007)[#]
138. German workshop on Nanowires and Nanotubes, Fulde, June (2007)**
139. EPFL colloquium, Lausanne, October (2007)
140. 17th Symposium Cond. Matter Phys.- SFKM 2007, Serbian Physical Society, Vrsac, September (2007)[#].
141. IUPAC Workshop on Advanced Materials, Krabi, Thailand, December (2008). Conference was canceled
142. High-Accuracy Nanomechanical Research in the Nordic Countries, Helsinki University of Technology, May (2007)**
143. Ukraine-Israel binational workshop, Beer Sheva, September (2007)
144. 9th Workshop on Nanooscience and Nanotechnology, Sofia, November (2007)[#]
145. Industry-Academia Workshop on Nanotubes Applications, Technion, November (2007)[#]
146. Americas Innovation Forum (Forom Interamericano de Innovacion), Montevideo (Uruguay), April (2008).
147. FOREMOST Project semi-annual meeting, Weizmann Institute, February (2008)[#]

148. US-Airforce-MAFAT (Israel) Nanotechnology meeting, San Francisco, April (2008)
149. NanoBio Conference, NATO ARW, St. Petersburg, June (2008)
150. Legal Conference: Law meets Industry: Biosciences Patents, Haifa University, June (2008)
151. Transition Metal Chalco/ Halide Nanostructures (TMCN 2008), Portorož, Slovenia, May (2008)**
152. Society of Tribologists and Lubrication Engineers, Cleveland, OH, May (2008)
153. Molecules & Materials: New Directions, Bangalore, India, December (2008)
154. Vien-Nano 09, 3rd Vienna Intl. Conf. Nanotech, Vienna, March (2009)*
155. "1st Julius Springer Forum for App. Phys." (under the auspices of 4 Nobel Laureates) Harvard University, September (2008)
156. Israel Nano, 1st Isr. Conf. Nanosci. & Nanotech., Jerusalem, March (2009)*
157. Intl. Conf. Quantum Transport and Fluctuations Nanoscale, Montenegro, September (2008)[#]
158. 9th Intl. Fullerene Conference (IWFAC 2009), St. Petersburg, July (2009)*[#]
159. Intl. Conf. on Boundary Lubrication, Seville, April (2009)**
160. TMCN-09, Workshop on Nanostructures of Metal Chalcogenides and Halides, Taormina-Sicily, May (2009)
161. Israel Chemical Society 74th meeting, Tel-Aviv, February (2009)*
162. CM 2009 and MFPT 2009 (Mechanical Failure Analysis Conf.), Dublin, June (2009)**
163. NanoDam, Sabanci Univ., Turkey, June (2009)**
164. Israel-China Workshop on Tribology, Technion, June (2009)
165. BCEIA 2009, Beijing, November (2009)**
166. 17th Intl. Colloq. Tribol., Stuttgart, January (2010)
167. MRS Spring meeting, San Francisco, April (2010)
168. Meeting of the Ambulatory Orologists, Kfar Blum, June (2009)
169. INNT01, 1st workshop on Inorganic Nanotubes, San Sebastian, September (2009)[#]
170. CIMTEC 2010 - 12th Intl. Ceramics Cong. & 5th Forum New materials, Montecatini Term, June (2010)
171. RussNano 2nd Intl. Conference on Nanostructures, Moscow, October (2009)
172. 240th ACS National Meeting (Division of Fuel Chemistry), Boston, August (2010)**
173. NATO-ASI School on Bionanotechnology, Chisinau-Moldava, June (2010)
174. The 14th Israel Materials Engineering Conference, IMEC-14, December (2009)**
175. Colloquium at iNANO, University of Aarhus, Denmark, March 2010.
176. 7th Intl. Conf. Condition Monit. (CM2010), Stratford-upon-Avon, UK, June (2010)**
177. The 5th Intl. Conf. on Nanotech. for the Plastics Industry, Shenkar College, Ramat Gan, February (2010)[#]
178. Board of Governors Meeting, Ben-Gurion Univ., May (2010)*
179. ICONSAT 2010, Intl. Conf. Nano Sci. & Tech., Mumbai, February (2010)**
180. 1st European Inorganic Chemistry Conference (EICC), Manchester, April (2011)*
181. Colloquium of Materials Sci.& Eng., Stanford University, April (2010)
182. NMP (Nanotechnology-materials-production of FP6 and FP7) advisory board workshop, Brussels, November (2010)
183. E-MRS Symp. 11 E: From photophysics to optoelectronics of zero- and one-dimensional nanomaterials, Nice, May (2011)
184. TMCN11, Lausanne, June (2011)
185. Joint workshop at Northwestern Univ of NWU, Israel and JNC-Ceneter Jakkur-India, March (2011)[#]
186. XIX Medeleev Congress on General and Applied Chemistry, Volgograd, September (2011)**
187. The Ruđer Bošković 300th year memorial symp., Dubrovnik, May (2011)
188. MRS, Spring Meeting, San Francisco, April (2012)
189. Workshop in honor of Prashant Khamat, Univ. Pierre et Marie Curie (Paris VI), July (2011)
190. SloNano, Ljubljana, October (2011)[#]
191. The 9th Intl. Conf. Condition Monitoring Mechanics&Failure Prevent. Tech. (CM 2012), London (2012)
192. Israel Academy of Sciences entrance session, Jerusalem, December (2011)
193. PICO 2012 Symposium/70th Birthday Colloquium honoring Knut Urban, Jülich, February (2012)
194. International Federation of Nonlinear Analysts Conference (IFNA), Athens, June (2012)**
195. Nano Technology-Materials and Composites for Frontier Applications (NANOCON 012), Pune, Oct. (2012)*
196. 2nd Adriatic School on Nanoscience (ASON-2) Dubrovnik, September (2012)[#]
197. TMCN12, Mainz, July (2012)
198. Frontiers of Science- Weekend Popular Science Seminar, Maleh Hachmisha, May (2012)
199. 8th Annual Turkish Nanoscience and Nanotechnology Congress- NanoTk VIII, Ankara, June (2012)
200. Engineering Conference International meeting, Barcelona, September (2013)
201. IUMRS-ICAM conference, Qingdao, China, August (2013)*
202. 2nd EuCheMS Inorganic Chemistry Conf., Jerusalem, July (2013)**

203. "Flatlands Beyond Graphene", Jacobs University, Bremen, July (2013)[#]
204. Workshop of "COINAPO" COST action, Ercolano (Naples), March (2013)[#]
205. Symp. Z, MRS Spring meeting, San Francisco, April (2013)
206. Ort-Braude 4th Industry-Academia Conf., Carmiel, March (2013)*
207. Minerva Meeting on Nano-education, Weizmann Institute, March (2013)*
208. Convention of Urologists, Kfar Blum, May (2013)**
209. "Bangalore India Nano", Bangalore, December (2013)*
210. "Advanced Materials: Current Trends and Future Prospects", Manali (India), May (2014)
211. 15th Asian Chemical Congress (ACC), August, Singapore (2013)
212. "Enhanced Functionalities in 5d Transition Metal Compounds from Large Spin-Orbit Coupling", Telluride (US), July (2013)[#]
213. *NANO14*, Moscow, July (2014)**
214. *NanoIsrael14*, Tel Aviv, March (2014)*
215. *COMPO 2014, Nanocomposites, Biocomposites, and their Interfaces*, WIS, April (2014)
216. *Flatland Beyond Graphene*, Dublin, July (2014)
217. *Am. Phys. Soc. (APS) March meeting*, Denver, March (2014)- could not make it for technical reasons.
218. *Cambridge-JNCASR Winter School on "Frontiers in Materials Science"*, Bangalore, December (2013)
219. *Directions of Materials Science*, Bangalore, November (2013)
220. *CECAM workshop on Two-dimensional inorganic materials (2DIM): property simulations from band structure to devices*, Lausanne, January (2014)
221. *MANA Intl. Symp.*, Tsukuba, March (2014)
222. *ECAPD 2014*, Vilnius, July (2014)-
223. 7th Intl. Conf. Mater. Sci. and Cond. Matter Phys., Chisinau, September (2014)*
224. *MRS Fall meeting*, Boston, December (2014)[#]
225. *Shechtman conference*, Cancun, June (2014)
226. *The Europe-Africa Polymer Processing Society meeting*, Tel-Aviv, October (2014)*
227. *Nanomaterials: Applications & Properties*, Lviv, September (2014)
228. *MPI-Gölm-Weizmann Inst. Minerva meeting on Functional Materials*, Potsdam, November (2014)**
229. *Conference of Orthopedics*, Tel-Aviv, November (2014)
230. *Isr. Acad. Sci.-Leopoldina 50 years of cooperation*, Jerusalem, November (2015)
231. *ACNS2015, 12th Int. Conf. Adv. Carbon Nanostr.*, St. Petersburg, June (2015)*
232. *E-MRS: Symposium V: Bioinsp. Biointegrated Materials as Frontiers Nanomater.*, Lille, May (2015)
233. 80th Israel Chemical Society meeting, Tel-Aviv, February (2015)
234. 39th National Mechanical Eng., Taipei, Taiwan, November (2015)*
235. *Nanotechnology from Academia to Industry*, Holon Institute of Technology (HIT), Israel, April (2015)
236. *Symposium Honoring Ori Cheshnovsky*, Tel Aviv Univ., March (2016)
237. *Materials Chemistry Conference*, Valencia, Spain, March (2016)**
238. *Flatlands- Beyond Graphene*, Bled, Slovenia, July (2016)*
239. *Collaborative Conference on 3D and Materials Research (CC3DMR)*, Incheon, Korea, June (2016)
240. 12th *Nanoscience and Nanotechnology Conference (NANOTR-12)*, Istanbul, June (2016)[#]
241. *Topology Meets Materials*, WIS-MPI-Dresden workshop, Rehovot, February (2016)
242. *Material Technologies and Modeling Conference*, MMT-2016, Ariel University, Ariel, July (2016)*
243. *Materials Chemistry Conf.*, Berlin, July (2017)
244. *E-MRS Spring meeting: Symp.k: Bioinspired Nanomaterials*, Strasburg, May (2017)**
245. *Flatlands- Beyond Graphene-17*, Lausanne, Switzerland, August (2017)
246. 232nd *ECS Meeting*, National Harbor, Maryland, USA, October (2017)
247. "3rd *SALVE Symposium* - instrumentation and application, low-dimensional structure preparation, property calculation-", Ulm University, December (2017)[#]
248. *Dan Meyerstein 80th birthday Symp.*, Ariel University, Ariel, October (2018)
249. *Flatlands-Beyond Graphene-18*, Leipzig, Germany, September (2018)[#]
250. Special plenary lecture in *Ariel University*, Ariel, January (2018)*
251. 3rd *Erwin Schrödinger Symposium 2018* of the Erwin Schrödinger Society for Nanosciences: Progress in Interfacial Nanosciences, Dornbirn, Austria, July (2018)***
252. *Italy-Israel Meeting on Strategic Materials and Technologies for Industrial Innovation*, Catania, October (2018)
253. *Chemistry Colloquium*, Weizmann Institute of Science, April, Rehovot (2018)
254. *The 5th Intl. Conf.: Advances in Synthesis and Complexing*, RUDN University, Moscow, April (2019)*
255. 10th *International Conference on Materials for Advanced Technologies (ICMAT 2019)*, Symp X - Von Hippel Award Symposium in Honor of Prof CNR Rao FRS, Singapore, June (2019)

256. *Lecture at the Institute for Organic Solar Cells (LIOS)*, Johannes Kepler University of Linz, hosted by the *Austrian Academy of Sciences*, June (2018)
257. *The 10th Int. Conf. Mater. Tech.&Modeling (MMT-2018)*, Ariel University, Ariel, August (2018)
258. *Solution Processed Thin Films, Quantum Dots and Solar Cells, in honor of Prof. G. Hodes*, WIS, Dec. (2018)[#]
259. *10th Intl. Conf. Mater. for Adv. Tech. (ICMAT 2019)*, “*Symp X - Von Hippel Award Symp. in Honour of Prof CNR Rao FRS*”, Singapore, June (2019)^{**}
260. *APS March Meeting*, Boston, March (2019)
261. *Mini-course on 2D-Materials*, CITEC, Brno, January (2019)
262. *Perspective on 2D materials, Flatlands beyond Graphene*, Toulouse, September (2019)^{**}
263. *Winter-school on 2D-Materials*, Weizmann Institute, January (2019)
264. *Breaking Resolution Barriers in Electron Imaging*, Weizmann Institute, April (2019)
265. *Int. Union Vac. S&T Assoc. (IVC-21) Congress*, Malmo, July (2019)^{*}
266. *11th ann. Rec. Prog. Graphene and 2D Mater. Res. Conf. (RPGR2019)*, Matsui, Japan, Oct. (2019). Cancelled
267. *MMT 20 Conf. honoring 75th Michael Zinigrad birthday*, Ariel Univ., Sep. (2020), Postponed to July (2022)
268. *CIMTEC, 15th Intl. Ceramics Cong. & 9th Forum on New Mater.*, Montecatini Terme, Italy, June (2022).
269. *22nd Sede Boqer Symposium on solar energy research*, Sede Boqer, September (2019)
270. *Israel-Italy Binational Workshop on 2D-Materials*, Bar-Ilan University, November (2019)^{**}
271. *HeteroCarbNano 2020*, Benasque (Spain), December (2019)
272. *Chemistry Colloquium*, Bar-Ilan University, December (2019)
273. *Advances in Inorganic Chemistry* (www.panch2020.sci.muni.cz), Brno, June (2020)^{*}, Posponed, June (2021)
274. *The 7th Int. Workshop on Adv. Spectr. and Optical Mater. (IWASOM-20)*, Gdansk (Poland), July (2020), Cancelled
275. *Directions in Materials Research*, JNCASR Bangalore, June (2020).^{*} Cancelled
276. *SALVE 2D20*, Ulm University (Germany), Postponed from July 2020 to April (2022)
277. *The 2nd Int. Online Conf. on Crystals (IOCC)*, hosted by Crystals (MDPI Journal), November (2020)
278. *Nanotechnology based innovation in nanotechnology for the environment*, NINE2021, Salerno, March (2021), on-line www.aidic.it/nine2021/
279. *4th Online Intl. Conf. Sci.&Eng. Mater.*, Sharda Univ. (Delhi), July (2021), on-line
280. *World Nano Cong. Adv. Sci. and Tech. (WNCST-2021)*, Vellore Inst. Tech., Vellore, March (2021)^{**}, on-line
281. *Flatlands Beyond Graphene*, Lanzarote (Canary) Island, September (2022)[#]
282. *Molecules, Materials and Devices with Advanced Functionalities*, Ariel University, April (2022)
283. *Minisymposium on Inorganic Nanotube Devices*, Ben Gurion University, Beer Sheva, August (2022)
284. *Joint Royal Society-Isr. Acad. Sci. Human. Symposium on Materials*, Manchester, September (2022)
285. *Science Policy in Israel, an after-dinner talk. Joint Royal Society-Isr. Acad. Sci. Human. Symposium on Materials*, Manchester, September (2022)
286. *63rd Fullerene-Nanotube-Graphene General Symposium*, Japan, August (2022), on-line
287. *CIMTEC forum on new materials*, Perugia, June (2022)
288. *HeteroNanoCarb-2023*, Benasque, January (2023)^{*}
289. *ACS Spring Meeting*, Indianapolis, March (2023)^{**}
290. *Symp. honoring the 70th birthday of Gotthard Seifert^{*}*; Dresden, June (2023)^{*}; cancelled owing to clash of dates
291. *NINE2023- the 5th Int. Conf. Nanotech. Based Innov. Appl. Environ.*, Venice, June (2023)^{*}
292. *Flatlands Beyond Graphene*, Prague, September (2023)[#]
293. *Savle 2023*, Ulm, September (2023); cancelled due to clash of dates
294. *IEEE Nanotechnology Materials and Devices Conference*, NMDC 2023, Paestum, Italy, October (2023)^{*}; lecture given by ZOOM due to the war.
295. *Recent Advances in Materials (RAM-90)*, JNCASR, Jakkur, India, December (2023). Trip cancelled due to the war
296. *Int. Symp. on Dielectric Materials and Appl., 8th edition*, Orlando, Florida, May (2024)^{**#}
297. *HeteroCarboNano-2025*, Benasque, January (2025)
298. *Flatlands Beyond Graphene*, Wroclaw, September (2024)[#]
299. *57th Meeting of the Israel Society of Microscopy*, Ben Gurion University, May (2024)^{*}
300. *Symp. honoring Prof. Yoram Shapira 80th birthday*, Tel Aviv Univ., June (2024)[#]
301. *Symp. Honoring the retirement of Dr. Hagai Cohen*, Weizmann Institute, September (2024)
302. *The Kanatzidis International Symposium on Materials/Solid State Chemistry and Nanoscience for Sustainable Development*, Heraklion, October (2024) (attended via ZOOM)
303. *HeteroNanoCarb 2025*, Benasque, January (2025). Cancelled for personal reasons
304. *Advances in Solid State Physics and New Materials*, Belgrade, May (2025)^{*}
305. *Winter School, Frontier of Materials Science*, JNCASR Bangalore, December (2024). Cancelled for personal reasons
306. *Int. Conf. on Funct. Nanomater. and Nanodevices (NANOMAT 2025)*, Zagreb, September (2025)^{*}
307. *NanoteC25* (<https://nanotec25.univie.ac.at/>), Faculty of Physics, Vienna University, August (2025)^{**}

- 308. *Flatlands beyond Graphene 2025*, Milan, September (2025), Declined due to coinciding event
- 309. *Modern Trends in Civil Engineering and Materials Science (MTCEMS 2025)*, Ariel Univ., September (2025)*
- 310. *Int. Conf. on Layered Mater. and Devices: From Atoms to Chips*, INL – Int. Iberian Nanotech. Lab., Braga, November (2025)*
- 311. *Int. Winterschool in Solid State 2025*, JNCASR, Bangalore, December (2025).**
- 312. *70th Birthday Symp. Sidney Cohen*, WIS, June (2026).

* Plenary talk

** Keynote speaker

Opening session

Advisory boards of international and national meetings

1. 69th *Israel Chemical Society Meeting*, Tel-Aviv, February (2004)
2. *E-MRS Symposium: Current Trends in Nanoscience-from Materials to Applications*, Strasburg, June (2005)
3. *Union of Mater. Res. Soc.-Intl. Conf. on Adv. Mater.* (IUMRS-ICAM), Bangalore, October (2007)
4. *Nanotubes and Nanowires symposium*, E-MRS, Strasburg, May (2007)
5. *ASI-NATO School*, Sinaia, June (2007)
6. 72th *Israel Chemical Society Meeting*, Tel-Aviv, February (2007)
7. *E-MRS Symposium: Science and Technology of Nanotubes and Nanowires*, Strasburg, June (2007)
8. *TMCN series, Transition Metal Chalcogenide/Halide Nanostructures* annual meetings series, (2007-2011)
9. *Intl. Conf. Nano Science & Technology, ICONSAT 2010*, IIT, Bombay, February (2010)
10. *UK Condition Monitoring Series, Intl. Conf. on NDT*, June (2009-2011)
11. *NanoIsrael 2009*, Jerusalem, March (2009)
12. *COST action COINAPO final meeting*, Heraklion, October (2013)
13. *Directions in Materials Science*, Bangalore, November (2013)
14. *International Conference on Nanoscience + Technology 2014 (ICN+T 2014)*, Vail (CO), July (2014)
15. *Intl. Conf. Nano Sci. Tech. (ICONSAT-14)- India Nanosci. Conf.*, Chandigarh, March (2014)
16. Co-convener a session on nanocomposites in *Nano 14*, Moscow, July (2014)
17. *HeteroNanoCarb 2015*, Benasque (Aragon), December (2015)
18. *Flatlands- Beyond Graphene series* (2012-)
19. *Nanoparticles at the Interface Between Biology and the Materials World*, Weizmann Inst., July (2015)
20. Program committee, *NanoIsrael2016*, February (2016)
21. *ACNS2015, 12th Intl. Conf. Adv. Carbon Nanostr.*, St. Petersburg, June (2015)
22. *Adv. Mater. Energy, Environ. and Health (ICAM 2016)*, Ind. Inst. Tech. Roorkee, India, March (2016)
23. *Adv. Mater., Manufact., Manage. and Thermal Sci.* (AMMMT-2016), Siddaganga Inst. Tech., Tumkur, India, April (2016)
24. *HeteroNanoCarb 2017*, Benasque (Aragon), December (2017)
25. *Materials Chemistry Conf.*, Berlin, July (2017)
26. *Nanocon 18, 4th Intl. Conf. Nanotech....*, Bharati Vidyapeeth Univ., Pune, India, Oct. (2018).
27. *ChemPhysMat 2019 Conf. Honoring the 85th birthday of CNR Rao*, Bangaluru, India, February (2019).
28. *HeteroNanoCarb 2019*, Benasque (Aragon), December (2019)
29. *NANOCON 020*, Bharati Vidyapeeth University, Pune, India, October (2020)
30. 2nd (Online) *Turkey-Israel meeting on Nanosciences*, October (2020)
31. *Int. Conf. on Nanomater. in Biomedical and It's Appl.*, Bharath University, Chennai. India, June (2021)
32. *HeteroNanoCarb-2023*, Benasque, January (2023)
33. *HeteroCarboNano-2025*, Benasque, January (2025)
34. *Advances in Solid State Physics and New Materials*, Belgrade, May (2025)
35. *AIDIC 19th*, Salerno, September (2025)

Conference (co-) chairperson

1. 4th *Bordeaux--Weizmann Institute Annual Meeting: Advanced Materials*, Co-Chair with Prof. O. Kedem, Weizmann Institute (1986)
2. As active member of the board of the *Israeli Vacuum Society* and its president I chaired a number of annual meetings and workshops of this society between 1992 to 1996
3. *Weizmann Institute-ETH (Zurich)/EPFL (Lausanne) Forum on Advanced Materials*, Rehovot (February, 2000)
4. *ETH (Zurich)/EPFL (Lausanne)-UC Santa-Barbara- Weizmann Institute Forum on Advanced Materials*, Lausanne (September, 2001). Co-chairing with Prof. N. Setter (EPFL)

5. *The Gerischer Symposium*, Electrochem. Soc. Meet., Paris (April 2003), Co-Chair with C. Levy-Clement, P. Kamat, W. Jaegermann
6. *Italy-Israel Meeting. Adv. Topics Mater. Res.*, Co-Chair with L. Addadi and D. Cahen, Weizmann Institute, November (2003)
7. *German-Israeli Symp. Nanotubes and Nanowires*, Co-Chair with Prof. Dr. G. Seifert, Dresden (June, 2005)
8. *Minerva School on Biological and Bio-inspired Materials*, Harnack Haus, Berlin, with P. Fraztl, H. Juergeren-Butt, and M. Gottlieb, May (2007)
9. *First symposium on Transition metal chalcogenide nanostructures (TMCN07)*, Dresden, with D. Tomanek and G. Seifert, March (2007)
10. Symp. Honoring the 80th Birthday of Prof. Moshe Levy (November 2007)
11. *TMCN10*, Transition Metal Chalcogenide Nanostructures, Weizmann Institute, April (2010)
12. *NanoIsrael 2012*, Tel-Aviv, March (2012)
13. *China-Israel meeting on Nanoscience and Nanotechnology*, Tel-Aviv, March (2012)
14. Minisymposium in honor of the 85th Birthday of Prof. E. Grunbaum, Weizmann Institute, March (2012)
15. *COINAPO* (COST action) workshop “inorganic-polymer nanocomposites”, Weizmann Institute, November (2012)
16. Symposium O- *Beyond Graphene*, MRS Spring meeting, San Francisco, April (2013)
17. *IUMRS-ICIAM13*, D1. Low-dimensional Nanomaterials for Nanodevices, Qingdao, September (2013)
18. Israel-Greece Symp. *Nanoscience, nanophotonics and bionanotechnology*, Weizmann Inst., October (2014)
19. MRS 2013 Fall meeting, Co-chair of Symp. *Beyond Graphene: 2D Atomic Layers and van der Waals Solids*, Boston, December (2013)
20. *Nanoparticles at the Interface Between Biology and the Materials World*, (satellite event to *Flatlands beyond Graphene 2015*) Weizmann Institute, July (2015)
21. *2nd Nanotechnology from Academia to Industry-2016*, Holon Institute of Technology, May (2016)
22. *Israel-India Workshop on Nanoscience and Nanotechnology*, Weizmann Institute, February (2016)
23. *2nd Israel-Greece Joint Meeting on Nanotechnology and Bionanoscience*, Heraklion, October (2016)
24. *1st Israel-Turkey Joint Meeting on Nanoscale Sci. and Nanotech.*, Weizmann Institute, December (2017)
25. *3rd Meeting on Nanotechnology: from Academia to Industry (NATI)*, Holon Institute of Technology, May (2017)
26. Memorial lecture in honor of the late Prof. Mildred S. Dresselhaus by S. Iijima, Weizmann Institute, May (2017)
27. *4th Meeting on Nanotechnology: from Academia to Industry (NATI)*, Holon Institute of Technology, May (2018)
28. Co-chair, *Winter-school on 2D Materials*, Weizmann Institute, January (2019)
29. *Workshop on New Accelerators in Israel*, Israel National Academy of Sciences, Jerusalem, May (2019)
30. *5th Nanotechnology from Academia to Industry-2019*, Holon Institute of Technology, June (2020)
31. *Advanced Microscopy and Spectroscopic of Nanostructures*, Weizmann Institute, September (2020)
32. *The 2nd International Online Conference on Crystals*, MDPI publishing group-Basel, November (2020)
33. *The 2nd Turkey-Israel meeting on Nano* (on-line), November (2020)
34. *5th Nanotechnology from Academia to Industry-2022*, Holon Institute of Technology, August (2022)
35. Royal Soc. (UK)-*Isr. Academy of Sci. & Humanities joint meeting on Materials*, Manchester, September (2022)
36. *6th Nanotechnology from Academia to Industry-2023*, Holon Institute of Technology, June (2023)

Session chairperson

1. *2nd International Conference on II--VI Compounds*, Aussois, March (1985).
2. Symposium on *Semiconductor-Electrolyte Interfaces* at the Electrochemical Society Meeting, Montreal, May (1985).
3. Panel Member- *Photoelectrochemical Cells*, 6th International Conference on Photochemical Conversion and Storage Solar Energy (IPS6), Paris (1986).
4. *Photoelectrodes Semiconductrices* (GRECO), Ecole Polytechnique, Massy-Palaiseau (1988).
5. European Workshop on “*Electrochemical Processing of Semiconductors*”, Berlin (1989).
6. Symposium on “*Fractals and Porous Surfaces*”, Electrochemical Society Meeting, Montreal, May (1990).
7. Symposium on “*Photoelectrochemistry*”, Electrochemical Society Meeting, Washington, May (1991).
8. Symposium on “*Characterization of Thin Film Semiconductors and Interfaces*”, Electrochemical Society Meeting, Toronto, October (1992).
9. “*New Trends in Photoelectrochemistry*”, Tokyo, March (1994).
10. Symposium on *Fundamental and Applied Studies of 2-D Metal Chalcogenide materials*, Electrochemical Society Meeting, Chicago, October (1995).
11. *Israel Chemical Society session in the AGIL* (Union of Materials Societies of Israel), Jerusalem, May (1996).
12. *Sde Boker conference on Solar Energy Conversion*, March (1996).
13. *International symposium on Fullerenes*, Jerusalem, May (1996).
14. *3rd Intl. Meeting on New Trends in Photoelectrochemistry*, Estes Park, USA, May (1997).

15. *Fullerene Symposium*, 191th Electrochemical Society Meeting, Montreal, May (1997).
16. *4th FGIPS Meeting in Inorganic Chemistry*, Korfu, October (1997).
17. *Israeli Vacuum Society/Israeli Association of Crystal Growth* joint meeting (Fall 1997).
18. *Inorganic nanotubes*, XII Intl. Winterschool, Electronic Frontier of Novel Mater., Kirchberg, Austria, March (1998).
19. *49th ISE Annual Conference*, Kita Kyushu, Japan, September (1998).
20. *10th Intl. Conf. Vapor Growth and Epitaxy (ICVGE-10)*, Jerusalem (1998) and *12th Intl. Crystal Growth Conf (ICCG-12)*, Jerusalem (1998) (plenary and regular sessions).
21. *Diamond electrochemistry: a critical review*, "2nd Intl. Symp. Diamond Electrodes", Univ. Tokyo, June (1998).
22. *49th Intl. Electrochem. Soc. Meeting*, Kitakyushu, September (1998).
23. *Binational Israel-Japan Symposium on Supramolecular Materials*, Jerusalem, February (1999).
24. *64th Israel Chemical Society Meeting*, Bar-Ilan University, March (1999).
25. *65th Israel Chemical Society Meeting*, Ben-Gurion University, February (2000).
26. *Annual Conf. Isr. Mechanical Eng.*, Beer-Sheva, June (2000).
27. *66th Israel Chemical Society Meeting*, Tel-Aviv, February (2001).
28. *20th Isr. Vacuum Soc. Annual Meeting*, Tel-Aviv, February (2001).
29. EPFL-ETH-WIS-UCSB meeting, Lausanne, September (2001).
30. Israel Vacuum Soc. annual meeting, Tel-Aviv, June (2001).
31. *5th Fullerenes and Atomic Clusters*, St. Petersburg, July (2001).
32. NT01, Potsdam, July (2001)
31. *XIIth International Symposium on Supramolecular Chemistry (ISSC XII)*, Israel, Summer (2002).
32. *Nanotec-01*, Sussex University, September (2001)
33. ETH (Zurich)/EPFL (Lausanne)-UC Santa-Barbara- Weizmann Institute Forum on Advanced Materials, Lausanne (September, 2001). Co-charing with Prof. N. Setter (EPFL)
34. *XXII Intl. Union Cryst. Cong.*, Geneva, August (2002)
35. Opening session (with C. Lévy Clement), *The Gerischer Symposium*, 203rd ECS Meeting, Paris, May (2003)
36. Opening session, IUUSTA-Isr. Sci. Found. Workshop, *Electronic Processes and Sensing on the Nanoscale*, Weizmann Institute-Eilat, May (2003)
37. Opening session, *Annual Meeting of the Isr. Vacuum Soc.*, Tel-Aviv, October (2003)
38. Plenary Session, IMEC-11, Israel Materials Engineering Conference, Haifa, December (2003)
39. Opening Session, *Italy-Israel Meeting. Adv. Topics Mater. Res.* Weizmann Institute, November (2003)
40. Opening plenary session, *69th Isr. Chem. Soc. Meeting*, Tel-Aviv, February (2004)
41. *Poland-France-Israel Meeting on Spectroscopy of Modern Materials*, Poznan, September (2004)
42. *The 5th Pacific Rim Intl. Conf. Adv. Mater. Process*, Beijing, November (2004)
43. *Scanning Probe Microscopy Israel 2005*, Holon Inst. Tech., June (2005)
44. NT-06, Nagano, June (2006)
45. *First Intl. Meeting on Recent Developments in the Study of Radiation Effects in Matter*, Playa del Carmen, Q. Roo, México, December (2006)
46. *MRS Fall Meeting*, "Nanotubes and Nanowires" symposium, Boston, November (2006)
47. *Bioinspired Materials*, Minerva sponsored school, Berlin, May (2007)
48. *LaserIon 2007*, Schloss Ringberg, near Munich, July (2007)
49. *IMEC-13, Isr. Mater. Eng. Conf.*, Haifa, December (2007)*
50. *Holland-Israel Symp. on Adv. Mater.*, Weizmann Institute., November (2007)*
51. *Isr. Vacuum Soc. Meeting*, Tel Aviv, October (2008)
52. *74th Isr. Chem. Soc.*, Tel-Aviv, February (2009)
53. *Jacob Klein 60th Anniversary Symp.*, Weizmann Inst., June (2009)
54. *17th Intl. Colloq. Tribology*, Stuttgart, January (2010)
55. *1st workshop on Inorganic Nanotubes (INT-1)*, San Sebastian, September (2009)
56. *6th and 7th Intl. Conf. Condition Monit.* (CM2009 and 2010), Dublin & Stratford-upon-Avon, UK, June (2010)**
57. *IMEC-14, 14th Israel Mater. Eng. Conf.*, Tel Aviv, December (2009)
58. *ICONSAT 2010*, Intl. Conf. Nano Sci. & Tech., Mumbai, February (2010)
59. *240th ACS National Meeting* (Division of Fuel Chemistry), Boston, August (2010)*
60. *LaserIon 2010*, Schloss Ringberg, July (2010)
61. *NanoIsrael 2010*, Tel-Aviv, November (2010)
62. *76th Isr. Chem. Soc. Meeting*, Tel-Aviv, February (2011)
63. *Nanocon12*, Pune, India, October (2012)
64. *MRS meeting (Beyond graphene-O symp.)*, March (2013)
65. *COINAPO meeting*, Ercolano, March (2013)
66. *2nd EuCheMS, Inorganic Chemistry Conf.*, Jerusalem, July (2013)**

67. *Nanowires-13*, Weizmann Institute, November (2013)*
68. *Directions in Materials Science*, Bangalore, November (2013)
69. Memorial session to Prof. E. Grünbaum, *Isr. Soc. Microscopy* annual meeting, May (2014)
70. *COMPO2014*, Weizmann Institute, May (2014)
71. *ECAPD 2014*, Vilnius, July (2014)
72. MRS Fall meeting, Boston, December (2014)
73. *Coherence and Control in the Quantum World*, Weizmann Institute, December (2014)
74. *E-MRS: Symposium V: Bioinsp. Biointegrated Materials as Frontiers Nanomater.*, Lille, May (2015)
75. *ACNS2015, 12th Int. Conf. Adv. Carbon Nanostr.*, St. Petersburg, June (2015)*
76. *Flatlands- Beyond Graphene*, Bar-Ilan University, July (2015)
77. *Nanoparticles at the Interface Between Biology and the Materials World*, Weizmann Institute, July (2015)
78. *HeteroNanoCarb 2015*, Benasque (Aragon), December (2015)
79. *NanoIsrael 2016*, Tel Aviv, February (2016)
80. *Israel-India Workshop on Nanoscience and Nanotechnology*, Weizmann Institute, February (2016)
81. *Flatlands- Beyond Graphene*, Bled, Slovenia, July (2016)*
82. Materials Chemistry Conference, Valencia, Spain, March (2016)
83. *2nd Greece-Israel meeting in Nanotechnology and Nanobiosciences*, Heraklion, October (2016)
84. *E-MRS Spring meeting: Symp.k: Bioinspired Nanomaterials*, Strasburg, May (2017)
85. *82nd Annual Israel Chemical Society Meeting*, Tel-Aviv, February (2017)
86. *3rd Meeting on Nanotechnology: from Academia to Industry*, Holon Institute of Technology, May (2017)**
87. *The Grand Challenges in the Chemical Sciences*, Symp. Hosted by the Isr. Academy of Sci.&Humanities for the 70th birthday of Israel, Jerusalem, June (2018)**
88. *3rd Erwin Schrödinger Symposium*, Dornbirn, Austria (2018)
89. *Italy-Israel Meeting on Materials Science*, Catania, October (2018)
90. *Winter-school on 2D Materials*, Weizmann Institute, January (2019)
91. *Flatlands Beyond Graphene*, Toulouse, September (2019)*
92. *Symp. commemorating G. M. J. Schmidt's 100th birthday anniversary*, Weizmann Institutue, October (2019)
93. Israel-Italy workshop *Nanomaterials for the Future*, October (2020), <https://italia-israel.glueup.com/event/nanomaterials-for-the-future-26512/>
94. *The 2nd Int. Online Conf. on Crystals (IOCC)*, hosted by Crystals (MDPI Journal), November (2020)
95. *The 2nd Turkey-Israel meeting on Nano* (on-line), November (2020)
96. Symp. FI, *CIMTEC Conf.*, Perugia, June (2022)
97. *Flatlands Beyond Graphene*, Lanzarote Island, September (2022)
98. *Royal Soc.-IAS&H meeting on Materials*, Manchester, September (2022)
99. *HeterNonoCarb23*, Benasque, January (2023)
100. *NINE 23*, Venice, June (2023)
101. *Flatlands beyond Graphene 23*, Prague, September (2023)
102. *Symposium honoring Prof. Gershom Martin*, WIS (Rehovot), December (2024)
103. *Int. Conf. on Layered Mater. and Devices: From Atoms to Chips*, INL – Int. Iberian Nanotech. Lab., Braga, November (2025)*

* Opening session

** Plenary session

Organizing committee of conferences and symposia

1. *Bat-Sheva Seminar on Metal Electrolyte and Semiconductor Electrolyte Interfaces*, Ein-Gedi (1981)
2. *World Energy Conference*, Tiberias, (1988)
3. *54th Annual Meeting of Israel Chemical Society*, Weizman Institute (1989)
4. *1st US-ISRAEL Energy Forum*, Shores (1990)
5. *Japan -Israel Symposium "Organized Molecular Structures"*, Weizmann Institute, (1991)
6. *New Trends in Photoelectrochemistry 2 (NTP-2)*, Tokyo, Japan (1994)
7. *UK-Israel binational symposium "Frontiers in Surface Science"*, Tel-Aviv, (1994)
8. *7th Israel Materials Engineering Conference*, Haifa, (1994)
9. *International symposium on Fullerenes*, Jerusalem, (1996)
10. *Israel-India Materials Symposium*, Jerusalem, (1996)
11. *3rd Intl. Meeting on New Trends in Photoelectrochemistry (NTP-3)*, Estes Park, USA (1997)

12. *10th Intl. Conf. Vapor Growth and Epitaxy (ICVGE-10)*, Jerusalem (1998) and *12th Intl. Crystal Growth Conf. (ICCG-12)*, Jerusalem (1998)
13. *4th Intl. Meeting New Trends in Photoelectrochemistry (NTP-4)*, Nice, France (1999)
14. *66th Annual Meeting Isr. Chem. Soc.*, Tel-Aviv, February (2001)
15. *Supramolecular Chemistry (ISSC XII)*, Tel-Aviv (2002)
16. *IMEC-11, Israel Materials Engineering Conference*, Haifa, December (2003)
17. *Eco-Nano*, Tel-Aviv Univ., May (2005)
18. *IMEC-12*, Beer Sheva, March (2005)
19. *72th Annual Meeting Isr. Chem. Soc.*, Tel-Aviv, February (2006)
20. *Electrochem. Micro and Nanosystem Technologies- EMNT-2008*, Dead Sea, September (2008)
21. *RBNI Winter School of the Technion: Topics in Nanoscience and Nanotechnology*, Dead Sea, February (2008)
22. *NanoIsrael*, Jerusalem, February (2009); Tel-Aviv, November (2010); Tel-Aviv March (2014)
23. *Beyond Graphene and Carbon Nanotubes: 1D and 2D Systems...*, *MRS Spring Meeting*, San Francisco, April (2013)
24. *1D Nanomaterials for Nanodevices symp., IUMRS-ICAM 2013*, Qingdao, August (2013)
25. *Nanocomposites and Hybrid Nanomaterials*, Nano 2014, Moscow, July (2014)
26. *COINAPO (COST-action) final meeting* (<http://www.coinapo-crete.eu/Events/Details>), Heraklion, Oct. (2013)
27. *Flatlands beyond graphene15*, Bar-Ilan Univ., July (2015)
28. *ACNS2015, 12th Int. Conf. Adv. Carbon Nanostr.*, St. Petersburg, June (2015)
29. *Turkey-Israel 2nd Nano-Meeting* (2020)