

**Personal Information**

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**Education**

2007–2012 Ph.D. at the Weizmann Inst. of Science, Dept. of Materials & Interfaces.  
Supervised by Prof. David Cahen  
2005–2007 M.Sc. in chemical engineering, Ben Gurion University [*summa cum laude*]  
Supervised by Prof. Armand Bettelheim  
2001–2005 B.Sc. in chemistry and B.Sc. in chemical engineering (dual-degree program), Ben Gurion University [*cum laude*]

**Current Position**

2017– Senior Scientist (Assistant Professor)  
of Chemical and Biological Physics, Weizmann Institute of Science, Israel

**Previous Positions**

2014–2017 Marie Curie IOF fellow at Columbia University and the Technion, Israel. Hosts:  
Louis Brus, Tony Heinz and Nir Tessler  
2012–2014 EFRC fellow at Columbia University. Hosts: Prof. Louis Brus and Prof. Tony Heinz

**Fellowships, Awards and External Grants**

2022 Invited to contribute to ACS Materials Au Rising Stars special issue  
2021–2025 ISF individual grant, 209/21  
2021–2024 BSF with Dr. Jaramillo Rafael (MIT), 2020270  
2019–2024 ERC starting grant, 850041 - ANHARMONIC  
2017–2021 ISF individual and equipment grant, 1861/17  
2017–2020 NSF-BSF grant with Prof. Andrew Rappe, 2016650  
2017–2019 BSF startup grant with Prof. Timothy Berkelbach, 2016362  
2015 Speaker in the “Rising stars” chemistry symposium in U. Chicago  
2014–2017 FP7 Marie Curie Grant, PIOF-GA-2013-622653  
2014 Weizmann institute, John F. Kennedy Prize  
2009–2012 Azrieli fellows program

**Invited Talks**

November, 2022	Material Research Society fall meeting, Boston, USA
September, 2022	Electron and phonon dynamics in soft optoelectronic materials, Technical University of Munich, Germany.
July, 2022	Telluride Science Research Center - 'Electronic and Structural Dynamics in Hybrid Perovskites: Theory Meets Experiment'.
June, 2022	Fritz Haber seminar, Hebrew University, Israel
May, 2022	GRC - Electronic and Photonic Materials and Phenomena, Barcelona, Spain
May, 2022	Material Research Society spring meeting, virtual, USA
April, 2022	Schottky Seminar Series, Technical University of Munich, Germany
March, 2022	Quantsol Winter workshop, Rauris, Austria
March, 2022	'From 2D to 3D crystals' International Solvay Institutes, Belgium
December, 2021	IMEC, Israel
September, 2021	Deutsche Physikalische Gesellschaft, Germany
May, 2021	CPOS, center Seminar, UCSB, USA
May, 2021	Departmental Seminar, Cavendish Laboratory, Cambridge, UK
April, 2021	Chemistry Departmental Seminar, Tel Aviv University, Israel
March, 2021	Chemical Engineering Departmental Seminar, Yale University , Virtual
March, 2021	Chemical Engineering Departmental Seminar, Ben Gurion University , Virtual
October, 2020	NanoGe, Virtual
February, 2020	NanoGe NIPHO20 meeting, Seville, Spain
December, 2019	Material Research Society Fall meeting, Boston, USA
September, 2019	Flatlands, Toulouse, France
August, 2019	Metal halide perovskite semiconductors, workshop, Lund University, Sweden
August, 2019	Electrical Engineering Departmental Seminar, Princeton University, USA
August, 2019	Chemistry Departmental Seminar, University of Pennsylvania, USA
March, 2019	International Winter school on Electronic Properties of Novel Materials, Kirchberg, Austria
March, 2019	Quantsol Winter workshop, Rauris, Austria
February, 2019	Israel Chemical Society, Tel Aviv, Israel
November, 2018	International workshop on spectroscopy in Halide Perovskites, Paris, France
September, 2018	Israel Vacuum Society meeting, Ramat Gan, Israel
July, 2018	International Conference on the Physics of Semiconductors (ICPS2018), Montpellier, France
June, 2018	Institut Photovoltaïque d'Île de France (IPVF), Palaiseau, France
April, 2018	Material Research Society spring meeting, Phoenix, USA
July, 2017	International Conference on Nanophotonics (ICNP10), Recife, Brazil
April, 2017	Hamburg Photon Science Colloquium, Hamburg, Germany
August, 2016	SPIE Optics and Photonics, San Diego, USA

**Organization of Scientific Meetings**

- September, 2022 “Electron and phonon dynamics in soft optoelectronic materials”, Technical University of Munich, Germany. Co-organizer
- February, 2020 Materials Physics session at the Israel Physics Society, Weizmann Institute. Co-organizer with Dr. Eli Kraiser
- October, 2019 “Contemporary Crystal Engineering and Solid-State Chemistry: Symposium commemorating G. M. J. Schmidt’s 100th birthday anniversary”, Weizmann Institute, Israel. Leading organizer with Prof. Rafal Klajn
- February, 2019 “Structural and Electronic dynamics in soft semiconductors”, Weizmann Institute, Israel. Leading organizer
- October, 2017 “Low-energy structural and electronic dynamics in soft semiconducting materials”, Royal Society International Seminar, UK. Co-organizer

**Teaching**

- 2020– “Spectroscopy for chemistry teachers”, The Rothschild-Weizmann Program
- 2018 – “Optical Properties of Solids”, Feinberg Graduate School, Weizmann Institute of Science
- 2017 “Solid State Physics”, Feinberg Graduate School, Weizmann Institute of Science

**Institutional Responsibilities and Initiatives**

- 2020 Principle coordinator of the [Amos de-Shalit summer school for Chemistry](#)
- 2018 Established a special masters program in Material Science within Weizmann institute graduate school ([Feinberg School](#))
- 2017 Initiated, tested and implemented the use of an electronic lab notebook in the Weizmann institute
- 2017–2019 Co-Coordinator of the [Amos de-Shalit summer school for Chemistry](#)

**Commissions of Trust**

- 2018 Reviewer for the Israel science foundation (ISF)
- 2017 Reviewer for SLAC National Accelerator Laboratory at Stanford University
- 2015– Reviewer for international journals including: Physical Review Letters, Physical Review X, Physical Review B, Nature, Nature Materials, Nature photonics, Nature communications, Journal of Physical Chemistry and ACA structural dynamics

**Memberships of scientific societies**

- 2008–2019 Material Research society
- 2011– American Physical Society

**Major Collaborations**

- 2019– Dr. Olle Hellman, theory (MD and DFT) of structural dynamics in oxide perovskites and lead salts, Linköping University
- 2019– Prof. Yves Geerts, International Solvay Institutes for Physics and Chemistry, Brussels, Belgium
- 2016– Prof. Andrew Rappe, theory (MD and DFT) of structural dynamics in halide perovskites and relaxor ferroelectrics, U. Penn
- 2014– Prof. Timothy Berkelbach, theory (coupled-cluster, many-body Green’s functions and DFT) of electronic excitations in organic crystals and their dynamics, Columbia University
- 2016– Prof. Mercouri Kanatzidis, inorganic chemistry, material synthesis and structural characterization, Northwestern Univ.
- 2014– Dr. David Egger, theory (MD and DFT) of structural dynamics in low-dimensional Halide perovskites, Technical University of Munich
- 2017– Dr. Tsachi Livneh, Raman measurements at high-pressure, NRC
- 2019– Dr. Eran Shterer, High pressure physics, NRC