

## 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

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

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

February, 2021	“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 Kraisler
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 <a href="#">Amos de-Shalit summer school for Chemistry</a>
2018	Established a special masters program in Material Science within Weizmann institute graduate school ( <a href="#">Feinberg School</a> )
2017	Initiated, tested and implemented the use of an electronic lab notebook in the Weizmann institute
2017–2019	Co-Coordinator of the <a href="#">Amos de-Shalit summer school for Chemistry</a>

**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 pf 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