

Conference Program

IVS Student 2021

July 15 | ONLINE

READY FOR A DOSE OF SCIENCE?

Click on the respective [link button](#) below to join the sessions

Opening Remarks

[Click here for the Zoom link >>](#)

9:15 Prof. Daniel Nessim (IVS President)

Parallel Sessions I

9:30	Energy and Sustainability: Mechanism Investigation Chair: Shira Haber (WIS) Zoom link >>	Soft and Biological Matter I Chair: Kusha Sharma (BIU) Zoom link >>	Nanomaterials I Chair: Lev Rovinsky (TAU) Zoom link >>	Nanoelectronics and Spintronics Chair: Rajashree Konar (BIU) Zoom link >>
9:30	Isaac Buchine (BIU) <i>How Does Humidity Influence the Mechanical Behavior of Halide Perovskite?</i>	Shiran Ziv Sharabani (TAU) <i>Messy to Ordered: The Role of Fiber Diameter in Determining the Shape Morphing Behavior of 2D Networks Constructed of Mesoscale Responsive Fibers</i>	Gal Michaely (BGU) <i>Mixed Dimensionality: High Robust and Multifunctional Carbon-based Composites</i>	Ieva Vaibrathė Adereth (TAU) <i>Soft Organic Neural Interface for Recording and Stimulating the Intact Retina</i>
9:50	Sreelakshmi Anil (IISER, India) <i>Insights into the Role of Ion-Solvent Complex on the Mechanism and Kinetics of Reductive Decomposition of Electrolytes for Lithium Ion Batteries and Post-Lithium Ion Batteries</i>	Sara Battista (AQ, Italy) <i>Physicochemical Properties, Antibacterial Activity and Synergistic Combination With Antibiotics of Structurally Related Liposomes</i>	Din Zelikovich (HUJI) <i>Shell-Matrix Interaction in Nanoparticle Imprinted Matrices (NAIMs)</i>	Daniel Nikiforov (Technion) <i>Intra-Island Coulomb Correlations in PEDOT:PSS Thin Films: Saturation of Spin Polarization Magnetoresistance</i>

10:10 Break

Plenary Session I

[Click here for the Zoom link >>](#)

10:20 **Organic Semiconductors – Why Do They Work?**
Prof. Sir Richard Friend (University of Cambridge)

11:00 Break

Parallel Sessions II

11:10	Electrocatalysis Chair: Iris Berg (HUJI) Zoom link >>	Spectroscopy and Microscopy I Chair: Shir Abramovich (BGU) Zoom link >>	Nanomaterials II Chair: Madina Telkhozhayeva (BIU) Zoom link >>	Soft and Biological Matter II Chair: Kusha sharma (BIU) Zoom link >>
11:10	Dima Azaiza-Dabbah (WIS) <i>Electrocatalytic Reduction of CO₂ and Oxidation of CO Catalyzed by Polyoxometalates</i>	Shani Har Lavan (BGU) <i>Investigating Decomposition Mechanisms in Cold Plasma with In-situ Optical Diagnostics</i>	Ella Sanders (WIS) <i>Remanent Polarization and Strong Photoluminescence Modulation by an External Electric Field in Epitaxial Halide Perovskite Nanowires</i>	Shiri Dishon (WIS) <i>Surface Piezoelectricity and Pyroelectricity in Centrosymmetric α-glycine</i>
11:30	Melina Zysler (BIU) <i>Carbon Supported Pt-Ni Octahedral Electrocatalyst As a Model to Follow Nickel Corrosion and Particle Detachment</i>	Matan Menahem (WIS) <i>Strongly Anharmonic Octahedral Tilting in 2D Hybrid Halide Perovskites</i>	Lior Asor (HUJI) <i>Doped InAs Nanocrystals: from Structure to Functionality in All-Nanocrystal-Based Electronic Devices</i>	Dana Cohen-Gerassi (TAU) <i>Phase Transition and Crystallization Kinetics of a Supramolecular System in a Microfluidic Platform</i>



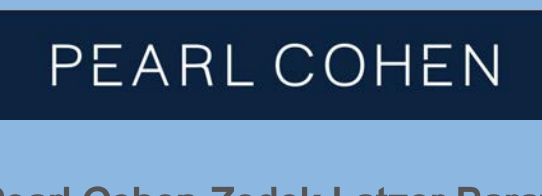


11:50 Break

Round Table Discussion: Career Path Choices

- Intel - Dr. Alexander Strikovsky
- Pearl Cohen Zedek Latzer Baratz - Dr. Rivi Steinhart
- 3DBattery - Yehuda Buganim
- ScienceAbroad - Nadav Douani (CEO), Dr. Hannah Noa Barad (Max Planck Institute for Intelligent Systems), Dr. Ronen Gottesman (Helmholtz-Zentrum Berlin)
- Academia - Prof. Elad Gross (HUJI), Dr. Michal Leskes (WIS)

[Zoom link >>](#)

Company Designated Rooms

 Intel Zoom link >>	 3DBATTERY Zoom link >>	 PEARL COHEN Pearl Cohen Zedek Latzer Baratz Zoom link >>
 ScienceAbroad Zoom link >>	 Academia Zoom link >>	

13:20 Break

Parallel Sessions III

13:30	Catalysis and Sustainability Chair: Iris Berg (HUJI) Zoom link >>	Spectroscopy and Microscopy II: Magnetic Resonance Chair: Maor Asher (WIS) Zoom link >>	Nanomaterials III Chair: Lev Rovinsky (TAU) Zoom link >>	Energy Storage Materials Chair: Nital Arbell (Technion) Zoom link >>
13:30	Ashish Prajapti (BGU) <i>Broadband Absorption with Arrays of Subwavelength Trumpet Non-imaging Light Concentrators</i>	Asya Svirinovsky-Arbell (WIS) <i>Monitoring Dendrites Growth in Composite Electrolytes by Solid-State NMR Spectroscopy</i>	Faris Horani (Technion) <i>II-VI Anisotropic Nanocrystals and Core/Shell Colloidal Semiconductor Nanoplatelets: Room-Temperature Synthesis, Physical Characterizations, and Exotic Optical Properties</i>	Gayathri Peta (BIU) <i>The Electrochemical Performance of NaPF₆-P(EO)₁₆-TiO₂ Composite Electrolytes for Na-ion Batteries</i>
13:50	Nagaprasad Reddy Samala (BIU) <i>Approaches for Controlling the Mechanism of Molecular Catalysts Towards ORR</i>	Nir Dayan (Technion) <i>Electron Paramagnetic Resonance Measurements of Micro-crystals and Subnanoliter Liquids</i>	Avia Ohayon-Lavi (BGU) <i>Compression-Enhanced Thermal Conductivity of Carbon-loaded Polymer Composites</i>	Adva Shpatz Dayan (HUJI) <i>Study of Selective Contacts in Inverted Perovskite Solar Cells</i>

14:10 Break

Flash Talks Session

Materials Characterization Techniques Chair: Nital Arbell (Technion) Zoom link >>	Soft and Biological Matter Chair: Kusha Sharma (BIU) Zoom link >>	Spectroscopy and Microscopy Chair: Maor Asher (WIS) Zoom link >>	Nanomaterials Chair: Madina Telkhozhayeva (BIU) Zoom link >>	Nanoelectronics and Spintronics Chair: Rajashree Konar (BIU) Zoom link >>	Energy Materials: Modifications Chair: Shira Haber (WIS) Zoom link >>
14:20 Flash Talks Session					
Paz Stein (BGU) <i>Synthesis and Characterization of Nickel-Based Solid Oxide Fuel Cell Anode by Inkjet Printing</i>	Yuval Segal (BGU) <i>Nanofabricated Patterns for the Control of T-cell Receptor Clustering</i>	Guy Reuveni (WIS) <i>Effect of The Organic A-site Cation in Lead Halide Bromides</i>	Jyoti Jaiswal (Rajiv) <i>Growth of Vertically Aligned Nanocrystalline MoS₂ Thin Films by DC Sputtering: Microstructural, Optical and Electrical Properties</i>	Subhajt Sarkar (BGU) <i>Theory of Hot Carriers and Carrier Heating in Semiconductors</i>	Anagha Usha Vijayakumar (BIU) <i>Combinatorial Synthesis and Screening of a Ternary NiFeCoO_x Library for the Oxygen evolution Reaction</i>
14:30 Flash Talks Session					
Chen Oppenheim (WIS) <i>Investigation of the Ceramic-Polymer Interface in composite Electrolyte by DNP-NMR Spectroscopy</i>	Hani Burham (TAU) <i>Functional Decoration of Biocompatible Venerite Mesoporous Nanoparticles for Targeted Drug Delivery: Tailored Properties for in-situ Theragnostic</i>	Bharathi Rajeswaran (BIU) <i>Exploring Dielectric Stacks for Raman Enhancement in Exfoliated CVD-grown 2D Nanosheets of Transition Metal Dichalcogenides</i>	Lucas and Luciano Cullari (BGU) <i>Trapped and Alone: Clay-assisted Aqueous Graphene Dispersions</i>	Nitzan Shauloff (BGU) <i>Sniffing Bacteria with a Carbon-Dot Artificial Nose</i>	Eilran Evenstein (BIU) <i>Li Batteries Cathode Material Stabilization Using ALD Synthesis of Artificial Cathode Electrolyte Interphase (ACEI) for Medical Applications</i>
14:40 Flash Talks Session					
Asmita Dutta (Ariel) <i>Laser Carbonization of Carbon Composite for Flexible Electronics</i>	Gal Yosefi (BGU) <i>Time Matters for Macroscopic Membranes Formed by Alginate and Cationic β-sheet Peptides</i>	Tamir Yeshurun (TAU) <i>Method for Extraction of Spatial External Luminescence Efficiency in Solar Cells Using Photoluminescence Measurements and Optical Modeling</i>	Gal Finkelstein Zuta (TAU) <i>Energy Harvesting by Piezoelectric Peptides for Biocompatible Power Solutions</i>	Itamar Eyal (TAU) <i>"All Electric" Ion Pumps for Artificial Cell Membranes</i>	Sivan Tzadka (BGU) <i>Direct Nanoprint on Chalcogenide Glasses Substrate for Optical Applications</i>

14:50 Break

Plenary Session II

[Click here for the Zoom link >>](#)

15:00 **The World of 2D Carbides and Nitrides (MXenes)**
Prof. Yury Gogotsi (Drexel University)

15:40 Break

Closing Remarks & Awards

[Click here for the Zoom link >>](#)

Eight prizes (two prizes sponsored by Intel and Pearl-Cohen)



Top 3 Flash Talk PRIZES











Top 3 Oral Presentation PRIZES

(2nd prize sponsored by Pearl-Cohen)



2 Female PRIZES (laptops) by Intel

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