

---

## Poster Program – Session 1

---

### Board no.

1. **Electric Conduction in Amyloid  $\beta$ - Based Peptide Nanostructures**  
**Moran Amit**  
Ben Gurion University of the Negev, Israel
2. **Dynamics of Redox Events in Molecular Junctions**  
**Rani Arielly**  
Tel Aviv University, Israel
3. **First Principles Based Computations of the Scattering of Ar from a Room Temperature LiF(100) Surface [1]**  
**Asaf Azuri**  
Weizmann Institute of Science, Israel
4. **Precursor Configurations, Molecule Assisted Chain Formation, and Post-Rupture Evolution in Metal-Carbon Monoxide-Metal Single Molecule Junctions**  
**Zoltán Balogh**  
Budapest University of Technology and Economics, Hungary
5. **Charge Transport in Cyclic Peptide Molecular Junctions**  
**Nahum Bomshtein**  
Ben Gurion University of the Negev, Israel
6. **Charge Transport in Pt-doped Fe<sub>2</sub>O<sub>3</sub>**  
**Maytal Caspary Toroker**  
Technion- Israel Institute of Technology, Israel
7. **Image Effects in Transport at Metal-Molecule Interfaces**  
**Jose Arturo Celis Gil**  
Delft University of Technology, Netherlands
8. **Towards Accurate Energy Level Alignment at Molecule-Metal Interfaces from a Density Functional Theory-Based Approach**  
**David A. Egger**  
Weizmann Institute of Science, Israel
9. **Numerical Calculations of Spectroscopic Processes in Molecular Systems**  
**Noa Freifeld**  
Tel Aviv University, Israel
10. **Enhanced Detection using Plasmonic Structures**  
**Matan Galanty**  
The Hebrew University of Jerusalem, Israel

11. **Effect of Amino Acid Sequence on Electron Transport on Peptide**  
**Cunlan Guo**  
Weizmann Institute of Science, Israel
12. **Effects of Substituents on the Dihydroazulene/Vinylheptafulvene Photoswitch**  
**Mia Harring Hansen**  
University of Copenhagen, Denmark
13. **Coherent Quantum Transport through a Single-Molecule Junction under Time-Periodic Fields**  
**Liang-Yan Hsu**  
Princeton University, USA
14. **Molecular Opto-Electronics with Colloidal Quantum Dots Embedded within Nanoantennas Junctions**  
**Iftach Ilisar**  
Tel Aviv University, Israel
15. **Dynamic Breaking of single Au-Au Bond**  
**Anders Jensen**  
University of Copenhagen, Denmark
16. **Switching Quantum Interference on and off in a Single Molecule**  
**Max Koole**  
Delft University of Technology, Netherlands
17. **Electronic Energy Level Alignment in Molecular Junctions with Standard DFT Approaches, Hybrid Functionals, and Model GW Calculations**  
**Michele Kotiuga**  
University of California and Lawrence Berkeley National Laboratory, USA
18. **A Statistical Approach to Simulation**  
**Kasper Primdal Lauritzen**  
University of Copenhagen, Denmark
19. **Bath Correlation Effects on Length-Independent Transport Rates in Biomolecules by Quantum Mechanical Unfurling**  
**Ariel David Levine**  
Technion- Israel Institute of Technology, Haifa, Israel
20. **Probing the Binding Mechanics of Single-Molecule Junctions Using Atomic Force Spectroscopy**  
**András Magyarkuti**  
Columbia University, USA and Budapest University of Technology and Economics, Hungary

21. **A Hemibiquinone Chemisorbed Monolayer Rectifies by Unimolecular plus Growing Schottky Barrier Mechanisms: A Cautionary Tale**  
**Robert Melville Metzger**  
University of Alabama, USA
22. **Langmuir-Blodgett Monolayer Rectifiers Based on a Perylenebisimide Electron Acceptor**  
**Robert Melville Metzger**  
University of Alabama, USA
23. **Magnetic Field and Chirality Effects on Electrochemical Charge Transfer Rates: Spin Dependent Electrochemistry**  
**Prakash Chandra Mondal**  
Weizmann Institute of Science, Israel
24. **Time-Resolved Conductance Measurements of Junctions with Molecular Monolayers**  
**Nirit Nachman**  
Tel Aviv University, Israel
25. **Nano Scale Charge Separation using Chiral Molecules**  
**Nir Peer**  
The Hebrew University of Jerusalem, Israel
26. **Simulating Single-Molecule Pulling Experiments: Coupling Transport and Molecular Dynamics Simulations**  
**Alessandro Pirrotta**  
University of Copenhagen, Denmark
27. **Protein Electronic Conductors: Heme-Substrate Bonding Dictates Transport Mechanism and Efficiency across Myoglobin**  
**Sara Raichlin**  
Weizmann Institute of Science, Israel
28. **Electron-Vibration Interaction in Presence of a Switchable Kondo Resonance**  
**David Rakhmilevich**  
Weizmann Institute of Science, Israel
29. **Evidence for Enhanced Electron Transfer by Multiple Contacts Between Self-Assembled Organic Monolayers and Semiconductor Nanoparticles**  
**Partha Roy**  
Weizmann Institute of Science, Israel
30. **1-Alkene Adsorption via C–O–In(Sn) Linkage – an Efficient Passivator of ITO Surface States?**  
**Hela Sasson**  
Ben Gurion University of the Negev, Israel

31. **Exploring Quantum Dynamics of Laser-Driven Atoms from a Time-Frequency Analysis Perspective**  
**Yae-lin Sheu**  
Toronto University, Canada
32. **Interference Enhanced Thermoelectricity in Quinoid Type Structures**  
**Mikkel Strange**  
University of Copenhagen, Denmark
33. **1G0 Gold Quantum Point Contact as a Nanoscale Thermometer for Plasmonic Hot-Spots**  
**Michal Vadai**  
Tel Aviv University, Israel
34. **Theoretical Studies of Charge Transport in Novel Terpyridine Based Molecular Junctions: Molecular Conformation and Electrode-Molecule Linkage Dependent Modulation of Conductance**  
**Ravindra Venkatramani**  
Tata Institute of Fundamental Research, India
35. **Probing Molecular Transport by Multiple Andreev Reflections**  
**David Weber**  
University of Konstanz, Germany
36. **Electron-Phonon Interaction in the Solid-State Electron Transport through Proteins: the Case of Azurin**  
**Xi Yu**  
Weizmann Institute of Science, Israel
37. **State Representation Approach for Atomistic Time-Dependent Transport Calculations in Molecular Junctions**  
**Tamar Zelovich**  
Tel Aviv University, Israel