Tentative list of posters

Thin films, Electronic and Optoelectronic Devices

P-TF-1 Schottky Barrier Height Formation and Electrical Characterization of Diodes Based on TiN/p-Si(100)
A. Douhin, BGU

P-TF-2 Template Growth of PbS, CdS and ZnS Nanocrystals on Polydiacetylene Langmuir Film: A GIXD Study
Y. Lifshitz, Amir Berman, BGU

P-TF-3 Morphological Characterization of PbS Thin Films Chemically Deposited on GaAs(100) Substrates
A.Osherov, BGU

P-TF-4 Polarized Near field Scanning Optical Microscopy - A Novel Method for Chirality Measurements on Surfaces
A.Landau, BIU

P-TF-5 Investigation of the Thermally Deposited VO_2 Thin Films
A. Axelevitch, HAIT

P-TF-6 Proximity Effect, Crossed Andreev Reflections and the Pseudogap in High-Temperature Superconductors
O. Yuli, HU

P-TF-7 Study of The PbS Condensate Thin Films By The Saxs Method
V. Gomozov, Kharkov Technical University

P-TF-8 Non-Gaussian Dark Current Noise in a P-type Quantum-Well Infrared Photodetectors
N. Snapi, Soreq NRC

P-TF-9 Effect of Deposition Conditions on the Characteristics of Highly Transparent and Conducting ZnO-SnO_2 Thin Films Deposited by Filtered Vacuum Arc Deposition (FVAD)
E. Çetinörgü, TAU

P-TF-10 Multiple Aspect Ratio Structural Integration (MASIS) for MOEMS (micro-opto-electro-mechanical-systems)
N. Elman, TAU

P-TF-11 Self-Assembly Process of Dipeptide-Nanotube Films
N.Hendler, N.Sidelman, TAU

P-TF-12 Carbon Nanotubes Based Ion Sensitive Field Effect Transistors for Neuronal Sensing
I. Kalifa, TAU

P-TF-13 Proton Exchange in Magnesium-Oxide-Doped Stoichiometric Lithium Tantalate
N. Sahian Amit, TAU

P-TF-14 Stable Blue-Emitting Conjugated Polymer/Inorganic Layered Compound Guest/Host Nanocomposites
E. Aharon**,** Technion

P-TF-15 The Self-Organization of Semiconducting Polymer/Mesoporous Silica Nanocomposites
S. Kirmayer**,** Technion

P-TF-16 Chemical Evolution of Quasi-Amorphous $BaTiO_3$
D. Ehre, WIS

P-TF-17 Spin-Polarized Electronic Structure of Mn-IV-V_2 Chalcopyrites
D. Naveh, WIS

P-TF-18 Chemical Bath Deposited CdS/CdSe-Sensitized Porous TiO_2 Solar Cells
O. Niitsoo, WIS

Molecular Electronic

P-ME-1 General Parameterization of Molecular I-V Curves Based on the Simmons Tunneling Model
A. Vilan, BGU

P-ME-2 From Poly (G)-Poly(C) to G4:
- Length comparison study
- Effect of metallization on the G4 morphology and polarizability
J. Ghabboun, HU

P-ME-3 Topographic and Polarizability Characterization of SP1-Protein-Gold Nanoparticle Hybrids
I. Medalsy, HU

P-ME-4 STM Characterization of Single DNA Molecules: Tunneling Spectroscopy and Contrast Inversion
E. Shapir, HU

P-ME-5 From a Single Molecular Electronics Device to a Molecular Electronics Network
N. Elman, TAU

P-ME-6 Photo and Voltage Induced Self-Assembled Monolayer of Photo-System-I Based Nanoparticles
M. Shai-li, TAU

P-ME-7 Self-Assembled DNA Based Electrical Circuits
E. Capua, WIS

P-ME-8 STM-Induced Switching of Dye Molecule Charge State on a GaAs Substrate
S. R. Cohen, WIS

P-ME-9 Raman Scattering From a Single Molecule between Two Metal Nanoparticles
T. Dadosh, WIS

P-ME-10 p-GaAs-S-Alkyl / Hg Junction
G. Nesher, WIS

P-ME-11 Odd and Even Effects of Alkyl Chain Molecules in Metal/Molecular/Semiconductor (Me/Mo/Se) Devices
O. Seitz, WIS

P-ME-12 Sequence Dependence of the Charge Transport Properties of Double Stranded DNA
C. Nogues, WIS

Nanomaterials and Nanomechanics

P-NM-1 Nanomaterials in Two Dimensions
S. Acharya, BGU

P-NM-2 Substantial Improvement of Dye sensitized Solar Cell (DSSC) Photovoltaic Characteristics by Conformal TiO_2 and/or MgO Coatings of the Titania Nanocrystalline Electrode
L. Grinis, BIU

P-NM-3 Microwave Superheating for the Synthesis of TiO_2 Rods
Vilas G. Pol, BIU

P-NM-4 The Effect of Orientation in Nanocrystallites TiO_2 Layers on Electron Transport Properties: Application to Dye Sensitized Solar Cells
S. Tirosh, BIU

P-NM-5 Deposition and Friction Properties of WS_2 Solid Lubricant Films on the Contact Surfaces
L. Rapoport, HAIT

P-NM-6 Electronic Structure of Metal-Semiconductor Nanojunctions in Gold-Tipped CdSe Nanorods
D. Steiner, HU

P-NM-7 Dynamics of Domain Growth in the Inhomogeneous Field of Atomic Force Microscope
A. Agronin, TAU

P-NM-8 Nanodomain Inversion Under Different Humidity Conditions using Atomic Force Microscopy
D. Dahan, TAU

P-NM-9 Automated Identification of Scanning Electron Micrograph Features Using Automatic Target Recognition
M. Kaplan, TAU

P-NM-10 Low Temperature Ultra High Vacuum Kelvin Probe Force Microscopy of InSb Quantum Dots
A. Schwarzman, TAU

P-NM-11 Growth and Annealing of Nanocrystalline $Cd_xZn_{1-x}S$ Films for Microelectronics
S. Stolyarova, Technion

P-NM-12 Photoelectron Spectroscopy as a Structural Probe of Intermediate Size Clusters
O. Guliamov, WIS

P-NM-13 Size-Dependent Spintronic Properties of Dilute Magnetic Semiconductor Nanocrystals
A. Makmal, WIS

P-NM-14 Inorganic Closed-cage Structures Formed by Laser Ablation
M. Bar Sadan, WIS

P-NM-15 Bending Tests of WS_2 Nanotubes
I. Kaplan-Ashiri, WIS

P-NM-16 Electric Transport Properties and NMR Study of the Fullerene-Like WS_2 Nanoparticles
F. Kopnov, WIS

P-NM-17 Fullerene-like Nanoparticles of Titanium Disulfide
A. Margolin, WIS

Surface Modification

P-SM-1 Investigation of Molten Iron Behavior in Polycrystalline SiC Heater Contacts
A. Axelevitch, HAIT

P-SM-2 Micrometer Scale Gel Patterns
E. Jakobs, TAU

P-SM-3 Versatile Layer-by-Layer Formation of Palladium Coordination-Based Organic Multilayers: Factors Controlling Optical Properties
M. Altman, WIS

P-SM-4 Polarization Study of Surface-enhanced Raman Scattering of Individual Rhodamine-6G Molecules
T. O. Shegai, WIS

Vaccum Technology

P-VT-1 Hypervelocity Impact Of Organic Fibers / Epoxy Composite Materials
S. Kats, WIS

P-VT-2 Interaction of Water Vapor with Polycrystalline Uranium Surfaces: the Low Temperature Regime
E. Tiferet, BGU

Crystal Growth And Epitaxy

P-CG-1 Nanocrystalline and Single Crystal Lead Selenide Films obtained by Chemical Bath Deposition
M. Shandalov, BGU

P-CG-2 Growth and Thermal Expansion Properties of $NaGd(WO_4)_2$ Single Crystal
S. Perets, BGU

P-CG-3 The Unique Growth Process of the Ultrathin Apatite for Bone Formation
S. Sarig, HU

P-CG-4 Carbon Nanotube Networks
Z. Abrams, TAU

P-CG-5 Production of Tungsten Carbide Powder by a Pulsed Submerged Arc
L. Glikman, TAU

P-CG-6 High Density Nanometer-Scale InSb Dots Formation Using Droplets Heteroepitaxial Growth by MOCVD
S. Shusterman, Soreq NRC and TAU

P-CG-7 Molecular Simulations of Solute/Crystal Interfaces in Protein Solution Systems
R. Gal, Technion

P-CG-8 Simulation of Pattern Formation During Czochralski Growth of GeSi Crystals
I. Rasin, Technion

P-CG-9 Role of Serum and Synovial Fluid Immunoglobulins on Monosodium Urate Monohydrate (MSUM) Crystal Formation and Deposition in Gout
J. Mahamid, WIS