

## **POSTERS & LUNCH 13:00-14:50**

# # 1-31 FLOOR 2 | NANO BUILDING

i	#	Name	Abstract Title	Affiliation	Sess
	1	Michael Gerasimov	Radiation Propagation Analysis of an Advanced Israeli FEL	Ariel U.	PS
	2	Amnon Fruchtman	Mass-separation by Standing Waves Near the Cyclotron Frequency	HIT	PS
	3	Miri Chachashvili	Adhesion improvement of boron carbide coating on aluminum substrates	NRC	PS
,	4	Oleg Belozerov	Investigation of High-Power Microwave Radiation from an Axial Output Compact S-Band A6	Technion	PS
		J	Segmented Magnetron Powered by a Linear Induction Accelerator		
ļ	5	Ron Grikshtas	Electrical properties of different materials at extreme conditions	Technion	PS
(	6	Or Rahumi	Engineering of solid oxide fuel cell's electrode containing a heterogeneous catalyst for	Ariel U.	ES
			simultaneous ammonia synthesis and energy conversion		
	7	Jonathan Prilusky	Superior photocatalytic activity of cesium lead bromide/tungsten disulfide hybrid nanocomposite	Ariel U.	ES
:	8	Achiad Goldreich	Nanoparticles of WS2 towards Stabilization of Halide Perovskite Solar Cells	Ariel U.	ES
9	9	Yair Ayalon	Control System for a Novel Hydrogen Generator	Ariel U.	ES
	10	Asmita Dutta	Innovative N-doped carbon coated WS2 nanotubes for efficient hydrogen evolution reaction	Ariel U.	ES
	11	Ritesh Kant Gupta	Dual-Passivation Strategy for Improved Ambient Stability of Perovskite Solar Cells	BGU	ES
	12	Said Kassou	Efficient and stable perovskite solar cells enabled by amino acids additives	BGU	ES
	13	D. Kishore Kumar	Stability of Perovskite Solar Cells with Copper Thiocyanate as Hole-Transport Material	BGU	ES
		Adi Kama	Combinatorial Vacuum-Deposition of Wide Bandgap Perovskite Films and Solar Cells	BIU	ES
	-	Michal Mizrahi	Developments of Transition multi-Metal Oxide catalysts for Alkaline Electrolyzers	BIU	ES
	16	Rifael Zvi Snitkoff-Sol	Quantifying the electrochemical active site density of precious metal-free catalysts in situ in fuel	BIU	ES
	17	Or Rimon	Investigating The Effect Of PGM-Free Catalysts' Loading On The ORR Activity In PEFC	BIU	ES
	18	Manoj	Dual atom electrocatalysts for hydrogen oxidation and oxygen reduction reaction	BIU	ES
		Shanmugasundaram		5	
	19	Yeela Persky	Synergistic Effect of Copper Corrole and Iron Porphyrin in Porphyrrole Aerogel for the	BIU	ES
			Electrocatalysis of Oxygen Reduction Reaction		
	20	Hadar Sclar	Stabilizing High-Voltage Lithium-Ion Battery Cathodes Using Functional Coatings of 2D Tungsten Diselenide	BIU	ES
	21	Gayathri Peta	Solid electrolyte membrane preparation using casting in different solvents	BIU	ES
	22	Akanksha Joshi	High entropy: an emerging prospect for design of Na-ion battery cathode	BIU	ES
	23	Yakir Kabalo	The effect of the amount of residual sodium in the active material NMC 532 after an innovative recycling process	BIU	ES
	24	Ananya Maddegalla	AZ31 Magnesium Alloy Foils as Thin Anodes for Rechargeable Magnesium Batteries	BIU	ES
	25	Anagha Usha	A combinatorial approach to the exploration of multi-metallic gradient libraries for the oxygen	BIU	ES
		Vijayakumar	evolution reaction		
:	26	Nevo Cohen	A Study Towards Preventing The Shuttle Effect of Polysulfides in Sulfur Aqueous Batteries: The	HUJI	ES
			Detection of Polysulfides via Scanning Electrochemical Microscopy (SECM)		
	27	Bikash Jana	Carbon nanodots for all-in-one photo(electro)catalytic performance	Technion	ES
	28	Michal Lahav	Unusual Surface Texture: Multidomain Single Crystal and Chirality	WIS	ES
		Guy Reuveni	Static and Dynamic Disorder in Formamidinium Lead Bromide Single Crystals	WIS	ES
	30	Adi Cohen	Diverging expressions of anharmonicity in halide perovskites	WIS	ES
	31	Naveen Malik	Electrochromic Metallo-Organic Films: Spray-Coating, On-Surface Self Assembly, and Laminated	WIS	ES
			Devices		

### **SESSIONS**

- PS: Plasma Science
- ES: Energy and Sustainability: Materials, Methods, and Breakthroughs
- NS: Nanoscience for future quantum technologies: novel materials, devices, and characterizations
- BI: Bio Applied Surfaces and materials
- NM: Nanomaterials
- NP: Frontiers in nanophotonics
- SS: Surface science
- SM: Smart and multifunctional materials and devices: transducers, sensors and actuators
- CM: Computational modeling and data science for new materials



#### POSTERS & LUNCH 13:00-14:50

# # 32-81 FLOOR 5 | NANO BUILDING

#	Name	Abstract Title	Affiliation	Seco
	Brhane Amha	Laser-induced graphene-Titanium (IV) oxide composite for adsorption enhanced photodegradation of	BGU	NM
	Sivan Tzadka	Self-Assembly Based Fabrication of Optical Sub-Wavelength Structures	BGU BGU	NM
	Haeyoung Park	Laser-induced 3D Patterned Graphene Composites on Curved Surfaces for Fog Harvesting	BIU	NM NM
36	Melina Zysler	Hollow Palladium Nanosheets: a Synthetic Study  Combined nanofiltration and advanced oxidation processes with bifunctional carbon nanomembranesl.	BIU	NM
	•	·		
37	•	Fabrication of Fluorescent Thin films Using Nanobead Emitters  Asiatronic Microparticles through Pariodic Autofragmentation of Amphiphilic Triblack Capalymer	BIU TAU	NM NM
	Nicole Edelstein-Pardo	Anisotropic Microparticles through Periodic Autofragmentation of Amphiphilic Triblock Copolymer		
	Yuexing Chen	Tunable Copper Nanocrystals Deposited on Seeded Nanorods	Technion	NM
40	Inbal Weisbord	On the Development and Atomic Structure of ZnO Crystals Grown in Polymers from Vapor Phase	Technion	NM
41	Tuoke Cai	Block Copolymer Templated HfOx Nanostructures – from Fundamental Understanding to Rational	Technion	NM
	Hila Shalom	FDTD simulations of exciton-polariton resonances in WS <sub>2</sub> nanotubes	Ariel U.	NP
43	Neena Prasad	Synthesis and formation mechanism of different phases and morphologies of polar ZnS nanostructures:	Ariel U.	NP
		morphology identification using Raman spectroscopy		
	Sivan Tzadka	Highly effective anti-reflective structures for polymer optics	BGU	NP
	Alon Krause	Nanoscopy of Aluminum Plasmonic Cavities by Cathodoluminescence and Second Harmonic Generation	BIU	NP
	Hodaya Klimovsky	Characterization of nanometric thin films with far-field light	BIU	NP
48	Anna Yuchnovsky Nathali Gower	Switching of photocurrent polarity in electrochemical cells with light via an excited state proton  Investigating the effect of doping concentration on the performance of Terahertz Quantum Cascade	Technion BIU	NP NS
	Shiran Levy	Novel split-well resonant-phonon terahertz quantum cascade laser structure	BIU BGU	NS SM
	Meghna Khadka Dayananda Desagani	Elastin Like Peptides-Modified Electrodes for Per-and Polyfluoroalkyl substances (PFAS) Detection Lactate Analysis using Flexible non-Enzymatic Electrochemical Sensor	BGU	SM
	Mohamed Hamode	Plasmonic based Sensor for Quantification of Chemical Pollutants in Water and its Improvement By	BIU	SM
	Nivedita Lalitha Raveendran	Optimization of highly magnetostrictive layer for efficient magnetoelectric heterostructures	Technion	SM
54	Aya Mrar	Fabrication and characterization of Ni/Si Schottky diodes	Technion	SM
55	Nitai Arbell	Enantioselective Photocatalysis: A Novel Method for Enantiomeric Enrichment Via Chiral Imprinting	Technion	SM
56	Noga Levinson	Diverting Electron Flow in Electrochromic Metal-Organic Assemblies	WIS	SM
57	Yuliy Yuferov	Synthesis of aluminum oxide surface using plasma electrolytic oxidation in ternary eutectic molten salt	Ariel U.	SS
58	Maurício N. Kleinberg	Elucidating the mechanisms involved in Cr(VI) removal by activated carbon cloth	BGU	SS
59	Avi Huri	Complexation of Platinum on the Surface of Shape-defined Plasmonic Nanoparticles	BIU	SS
60	Hadar Shema	Nanospectroscopy mapping of supported molecular catalyst for CO <sub>2</sub> electroreduction to methanol	HUJI	SS
	Ahmad Nawaz	Electron induced chemistry of nitrous oxide-water co-adsorbed film (N <sub>2</sub> O@H <sub>2</sub> O) as a model study of	HUJI	SS
	Mazal Kostan	Structure and poisoning effects on hydrogen sorption affinity in single Pd nanoparticles	HUJI	SS
	Lihi Rikanati	Identifying reactivity variations on different facets in single Au nanocrystals.	HUJI	SS
	Kamira Cohen-Weinfeld	X-Ray Photoelectron Spectroscopy for Surface Characterization: Interesting new results	Technion	SS
	Gilad Sasson	Enhancement of Polymer Thin Film Solvent Resistance Using Sequential Infiltration Synthesis	Technion	SS
	Dawod Muhamed Brian Welch	Determination of the Diffusion Coefficients of Silver in Thermoelectric Lead Telluride Compounds Polymer Thin Films: What is Happening During Molecular Layer Deposition?	Technion Technion	SS SS
	Miguel A. Andrés	X-ray photoelectron spectroscopy of solid-liquid interfaces under electrochemical control	WIS	SS
	Roey Ben David	CO <sub>2</sub> Activation on Ni(111): A Competitive Adsorption between Carbon Monoxide and Atomic Oxygen	WIS	SS
	Leah Fuhrman Javitt	Electro-freezing of water as induced by hydrated Al and Mg ions without supercooling	WIS	SS
71	Chetan Prakash Sharma	Photo and electrically activated antibacterial and antiviral laser-induced graphene surfaces and	BGU	ВІ
72	Carlos Ureña Martín	Mechanism of stiffness induced contact guidance	BGU	ВІ
73	Brit Maman	Lithographic platform for reference-free traction force microscopy	BGU	ВІ
74	Shagufta Naaz	Nanofabricated patterns for the control of T cell receptor clustering	BGU	ВІ
	Oriya Belous Maruani	Electrochemical Exploration of Biofilm Using Micro Electrodes Array	BGU	ВІ
	Esti Toledo	Molecular Scale Spatio-Chemical Control of the Activating-Inhibitory Signal Integration in NK Cells	BGU	ВІ
	Vijay Bhooshan Kumar	Experimental and computational design of hybrid peptide self-assembled universal nanocarriers for	TAU	BI
	Nir Kampf	Lubrication by PClated Polymers, Assemblies and Gels	WIS	ВІ
	Or Shafir	Physics-aware Deep Learning Networks for High Accuracy Electronic Properties and Forces Prediction	BIU	CM
	Ofir Rudich	Band Gap Engineering of Lead Titanate Perovskite Oxide	BIU	CM
81	Margarita Shepelenko	Polymorphism, Structure, and Nucleation of Cholesterol·H <sub>2</sub> O at Aqueous Interfaces and in Pathological Media: Revisited from a Computational Perspective	WIS	CM
82	Guy Ohad	Accurate band gaps and optical spectra of halides and oxides from a non-empirical, localization based	WIS	CM
		optimal tuning of a screened range-separated hybrid functiona		