

POSTERS

Tuesday, May 31, 2016

13:30-14:30 Poster Session A

Hall A

Life Sciences: PA-1 - PA-17

Materials Science: PA-18 - PA-36

Device Fabrication Competition: PA-37 - PA-40

Micrograph Competition: PA-41 - PA-54

Life Sciences

- PA-1 VISUALIZING ESCRT MEDIATED ABSCISSION DURING EARLY DEVELOPMENT IN LIVE ZEBRAFISH EMBRYOS
Shai Adar, Ramon Birnbaum, Natalie Elia
Ben-Gurion University of the Negev, Beer-Sheva, Israel
- PA-2 3D VISUALIZATION OF BIOLOGICAL TISSUES FROM MICROMETER TO NANOMETER SCALE USING CRYO-FIB-SEM
Anat Akiva¹, Netta Vidavsky¹, Lia Addadi¹, Steve Weiner¹, Andreas Schertel²
¹*Weizmann Institute of Science, Rehovot, Israel*
²*Carl Zeiss Microscopy GmbH, Oberkochen, Germany*
- PA-3 TRACKING shRNA-MEDIATED INHIBITION OF mRNA TRANSCRIPTIONAL ACTIVITY IN THE NUCLEUS OF SINGLE CELLS
Shira Avivi¹, Amir Mor¹, Iris Dotan², Dani Canaani², Yaron Shav-Tal¹
¹*Bar-Ilan University, Ramat-Gan, Israel*
²*Tel Aviv University, Tel Aviv, Israel*
- PA-4 COMPUTERIZED CELL FLOW-PROPERTIES ANALYZER (CFA) – INSTRUMENT AND METHODOLOGY FOR VISUALIZATION AND CHARACTERIZATION OF RED BLOOD CELL FLOW PROPERTIES
Gregory Barshtein, Felix Tsipis, Saul Yedgar
The Hebrew University of Jerusalem-Medical School, Jerusalem, Israel
- PA-5 THE LOCATION AND INTERACTIONS OF NXF1/Tap DURING mRNA EXPORT EXAMINED AT HIGH RESOLUTION WITHIN INDIVIDUAL NUCLEAR PORES
Rakefet Ben-Yishay, Amir Mor, Amit Shraga, Asaf Ashkenazy, Yuval Garini, Yaron Shav-Tal
Bar-Ilan University, Ramat-Gan, Israel

Poster Session A (continued)

- PA-6 MULTI-SCALE CHARACTERIZATION OF PLATELET-MATRIX ADHESION
Melanie Bokstad Horev¹, Tova Volberg¹, Revital Zarka¹, Sharon Wolf¹, Hagit Hauschner², Uri Seligsohn², Benjamin Geiger¹
¹*Weizmann Institute of Science, Rehovot, Israel*
²*Sheba Medical Center, Tel-Hashomer, Israel*
- PA-7 DETECTION OF ISOLATED METAL ATOMS ON PROTEIN BY CRYO-SCANNING TRANSMISSION ELECTRON MICROSCOPY
Nadav Elad, Giuliano Bellapadrona, Lothar Houben, Irit Sagi, Michael Elbaum
Weizmann Institute of Science, Rehovot, Israel
- PA-8 IMAGING INTRACELLULAR MINERAL PHASES IN ALGAE USING CRYO-X-RAY TOMOGRAPHY
Assaf Gal^{1,2}, André Scheffel¹, Damien Faivre²
¹*Max-Planck Institute of Molecular Plant Physiology, Potsdam, Germany*
²*Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany*
- PA-9 IS THE ESCRT COMPONENT VPS4 A MICROTUBULE BINDING PROTEIN?
Ofir Gershony, Ofer Shapira, Mehtap Abu-Qarn, Inbar Segal, Dikla Nachmias, Leah Gheber, Natalie Elia
Ben-Gurion University of the Negev, Beer-Sheva, Israel
- PA-10 A MODEL SYSTEM FOR THE RECONSTITUTION OF THE CELLULAR ACTIN CORTEX
Or Gill, Anne Bernheim-Groswasser
Ben-Gurion University of the Negev, Beer-Sheva, Israel
- PA-11 RESOLVING MIXED MECHANISMS OF MOLECULAR SUB-DIFFUSION AT THE PLASMA MEMBRANE OF LIVE T-CELLS BY SINGLE PARTICLE TRACKING
Yonatan Golan, Eilon Sherman
The Hebrew University of Jerusalem, Jerusalem, Israel
- PA-12 DECIPHERING THE STRUCTURAL ORGANIZATION OF THE ESCRT COMPLEX DURING CYTOKINETIC ABSCISSION AT NANO SCALE
Inna Goliand¹, Shachar Sherman¹, Dikla Nachmias¹, Tali Dadosh², Natalie Elia¹
¹*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
²*Weizmann Institute of Science, Rehovot, Israel*
- PA-13 BIOGENIC LIGHT INDUCED TUNEABLE PHOTONIC CRYSTALS
Dvir Gur¹, Ben Leshem¹, Viviana Farstey², Dan Oron¹, Steve Weiner¹, Lia Addadi¹
¹*Weizmann Institute of Science, Rehovot, Israel*
²*The Interuniversity Institute for Marine Sciences, Eilat, Israel*

Poster Session A (continued)

- PA-14 INTRACELLULAR DYNAMICS AND LOCALIZATION OF β -CATENIN IN RESPONSE TO WNT SIGNALING DURING THE CELL CYCLE
Sarah Hasenson, Pinhas Kafri, Yaron Shav-Tal
Bar-Ilan University, Ramat-Gan, Israel
- PA-15 SUPER RESOLUTION MICROSCOPY ELUCIDATES THE INTERACTION BETWEEN ANAEROBIC RESPIRATORY COMPLEX II AND THE FLAGELLAR MOTOR
Anna Koganitsky, Tali Dadosh, Vladimir Kiss, Michael Eisenbach
Weizmann Institute of Science, Rehovot, Israel
- PA-16 SEARCH FOR COMPOUNDS STIMULATING MITOCHONDRIAL TURNOVER FOR TREATING TYPE 2 DIABETES
Noga Kozer², Fernanda Cerqueira¹, Orian Shirhai¹
¹*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
²*Weizmann Institute of Science, Rehovot, Israel*
- PA-17 SILICA DEPOSITION IN SORGHUM SILICA CELLS TAKES PLACE IN VIABLE CELLS
Santosh Kumar¹, Yonat Milstein², Yaniv Brami², Rivka Elbaum¹
¹*The Hebrew University of Jerusalem, Rehovot, Israel*
²*B-nano Ltd., Rehovot, Israel*

Materials Science

- PA-18 INNOVATIVE PROCEDURES IN PARTICLE ANALYSIS: THE CORRELATIVE MICROSCOPY APPROACH
Uri Admon¹, Ernesto Chinea-Cano², Aryeh Weiss³, Naida Dzidal², Itzhak Halevy¹, Eli Boblil¹
¹*Nuclear Research Center Negev, IAEC, Beer-Sheva, Israel*
²*IAEA, Vienna, Austria*
³*Bar-Ilan University, Ramat-Gan, Israel*
- PA-19 CRYOGEL TEMPLATED TITANIA ALIGNED NANOSTRUCTURES PITTED WITH HIERARCHIAL ASSEMBLED NANOPOCKETS FOR GREEN CHEMISTRY APPLICATION
Snejana Bakardjieva¹, Jan Šubrt¹, Robert Klie²
¹*Institute of Inorganic Chemistry AS CR, Prague, Czech Republic*
²*UIC Chicago, Chicago, IL, USA*
- PA-20 PHASE-TRANSITION ANALYSIS OF BaTiO₃ NANOCRYSTALS
Maya Barzilay, Yachin Ivry
Technion-Israel Institute of Technology, Haifa, Israel

Poster Session A (continued)

- PA-21 VACUUM RABI SPLITTING IN A PLASMONIC CAVITY AT THE SINGLE QUANTUM EMITTER LIMIT
Ora Bitton¹, Kotni Santhosh¹, Lev Chuntonov², Gilad Haran¹
¹*Weizmann Institute of Science, Rehovot, Israel*
²*Technion-Israel Institute of Technology, Haifa, Israel*
- PA-22 REALIZING ULTRASENSITIVE LIVE CELL ATOMIC FORCE IMAGING WITH FUNCTIONAL GLASS PROBES
Aaron Brahami¹, Efrat Zlotkin-Rivkin¹, Benjamin Aroeti¹, Oleg Fedoseyev², Aaron Lewis^{1,2}
¹*The Hebrew University of Jerusalem, Jerusalem, Israel*
²*Nanonics Imaging, Jerusalem, Israel*
- PA-23 MAPPING THE ELECTROSTATIC POTENTIAL IN HETEROJUNCTIONS OF PbS/CdS CORE-ARM NANOSTRUCTURES BY OFF-AXIS ELECTRON HOLOGRAPHY
Rajesh Chalasani¹, Alex Pekin², Alex Rabkin², Yuval Golan², Amit Kohn¹
¹*Tel Aviv University, Tel Aviv, Israel*
²*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
- PA-24 EBSD - EXTENDING THE CAPABILITY OF SEM EDS ANALYSIS AND DELIVERING QUANTITATIVE MICROSTRUCTURE ANALYSIS
Keith Dicks
Oxford Instruments NanoAnalysis, High Wycombe, UK
- PA-25 TEXTURE ANALYSIS AND CHARACTERIZATION OF ANNEALED ELECTROLESS PLATED Re-Ni FILMS
Alla Duhin, Zahava Barkay, Alexandra Inberg, Noam Eliaz, Eliezer Gileadi
Tel Aviv University, Tel Aviv, Israel
- PA-26 CONTROLLING THE SHORT-RANGE ORDER OF AMORPHOUS OXIDES BY NANOMETER SIZE
Yael Etinger-Geller, Alexander Katsman, Boaz Pokroy
Technion-Israel Institute of Technology, Haifa, Israel
- PA-27 CHEMICAL BATH DEPOSITION AND CHEMICAL EPITAXY OF CADMIUM SULFIDE THIN FILMS ON GaAs SUBSTRATE
Ofir Friedman, Alex Upcher, Tzvi Tempelman, Vladimir Ezersky, Yuval Golan
Ben-Gurion University of the Negev, Beer-Sheva, Israel
- PA-28 PARTIALLY AGGLOMERATED METALLIC THIN FILMS FORMED BY ANNEALING OF SOLID SOLUTION NANOPARTICLES AT LOW HOMOLOGICAL TEMPERATURES
Nimrod Gazit, Leonid Klinger, Eugen Rabkin
Technion-Israel Institute of Technology, Haifa, Israel

Poster Session A (continued)

- PA-29 USING DUAL BEAM FIB FOR WIRE BONDING MODIFICATION OF MICROELECTRONIC COMPONENTS
Gilad Hemo¹, Eddie Redmard¹, Yafit Fleger²
¹*SanDisk, Omer, Israel*
²*Bar-Ilan University, Ramat-Gan, Israel*
- PA-30 TRANSMISSION KIKUCHI DIFFRACTION IN THE SCANNING ELECTRON MICROSCOPE FOR IMAGING OF REVERTED AUSTENITE IN CUSTOM 465® STAINLESS STEEL
Sigalit Ifergane^{1,2}, Zahava Barkay¹, Ofer Beeri², Noam Eliaz¹
¹*Tel Aviv University, Tel Aviv, Israel*
²*Nuclear Research Center Negev, Beer-Sheva, Israel*
- PA-31 CATION EXCHANGE COMBINED WITH KIRKENDALL EFFECT IN THE PREPARATION OF SnTe/CdTe AND CdTe/SnTe CORE/SHELL NANOCRYSTALS
Youngjin Jang, Diana Yanover, Richard Karel Capek, Arthur Shapiro, Nathan Grumbach, Yaron Kauffmann, Aldona Sashchiuk, Efrat Lifshitz
Technion-Israel Institute of Technology, Haifa, Israel
- PA-32 DIRECT IMAGING OF CARBON NANOTUBES IN SUPER ACID SOLUTIONS AND LIQUID CRYSTALLINE PHASES
Olga Kleinerman, Yachin Cohen, Yeshayahu Talmon
Technion-Israel Institute of Technology, Haifa, Israel
- PA-33 “TRANSROTATIONAL” MICROCRYSTALS AND NANOSTRUCTURES DISCOVERED BY TRANSMISSION ELECTRON MICROSCOPY IN CRYSTALLIZING AMORPHOUS FILMS
Vladimir Yu. Kolosov
Ural Federal University, Ekaterinburg, Russia
- PA-34 SPACE CHARGE REGION AND DIFFUSION LENGTH OF CsPbBr₃ SOLAR CELLS
Michael Kulbak, Nir Kedem, Gary Hodes, David Cahen
Weizmann Institute of Science, Rehovot, Israel
- PA-35 SYNTHESIS OF CORE-SHELL MoS₂ FULLERENE-LIKE INCORPORATING GOLD NANOPARTICLE Au@IF-MoS₂
Anna Lavie, Lothar Houben, Ronit Popovitz-Biro, Reshef Tenne
Weizmann Institute of Science, Rehovot, Israel
- PA-36 THE EFFECT OF CARBON NANOTUBE PARAMETERS ON THEIR PHASE BEHAVIOR IN SUPER-ACID SOLUTIONS
Lucy Liberman, Olga Kleinerman, Yeshayahu Talmon
Technion-Israel Institute of Technology, Haifa, Israel

Wednesday, June 1, 2016

13:15-14:15 Poster Session B

Hall A

Life Sciences: PB-1 - PB-16

Materials Science: PB-17 - PB-37

Device Fabrication Competition: See Tuesday, Poster Session A, PA-37 - PA-40

Micrograph Competition: See Tuesday, Poster Session A, PA-41 - PA-54

Life Sciences

- PB-1 POINT SPREAD FUNCTION ESTIMATION FROM PROJECTED SPECKLE ILLUMINATION
Nizan Meitav, Erez N. Ribak, Shy Shoham
Technion-Israel Institute of Technology, Haifa, Israel
- PB-2 THE AAATPase VPS4 SHAPES EARLY STEPS IN CILIA FORMATION AND ALTERS CENTRIOLAR SATELLITES AND THE PERICENTRIOLAR MATERIAL
Dikla Nachmias¹, Carolyn Ott², Shai Adar¹, Shachar Sherman¹, Jennifer Lippincott-Schwartz², Natalie Elia¹
¹*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
²*National Institute of Child Health and Human Development, Bethesda, MD, USA*
- PB-3 IMMUNOGOLD LABELING OF PHOSPHATIDYLSERINE BY ANNEXIN V IN CRYO-TEM SPECIMENS
Maayan Nir-Shapira, Naama Koifman, Yeshayahu Talmon
Technion-Israel Institute of Technology, Haifa, Israel
- PB-4 MINERAL SCAFFOLDS ENABLE THE MORPHOGENESIS OF BACTERIAL BIOFILMS
Yaara Oppenheimer-Shaanan, Vlad Brumfeld, Ilana Kolodkin-Gal
Weizmann Institute of Science, Rehovot, Israel
- PB-5 ULTRASTRUCTURE STUDY OF BIOLOGICAL MICRO-INJECTION SYSTEM
Gady Piriatskiy, Jonathan Ben David, **Yulia Pollak**, Tamar Lotan
University of Haifa, Haifa, Israel
- PB-6 PROBING THE MECHANICS OF THE HIV CAPSID
Ruben Ramalhu¹, Sanela Rankovic¹, Jing Zhou², Christopher Aiken², Itay Rouso¹
¹*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
²*Vanderbilt University School of Medicine, Nashville, Tennessee, USA*
- PB-7 REVERSE TRANSCRIPTION MECHANICALLY INDUCES HIV-1 UNCOATING
Sanela Rankovic¹, Ruben Ramalho¹, Christopher Aiken², Itay Rouso¹
¹*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
²*Vanderbilt University School of Medicine, Nashville, Tennessee, USA*

Poster Session B (continued)

- PB-8 IMPROVEMENT OF THE DECALCIFICATION PROCESS FOR ALL TYPES OF HARD MATERIAL IN THE ROUTINE HISTOLOGY
Ute Schmidt, Daniela Grabis
Merck KGaA, Darmstadt, Germany
- PB-9 TAG-FREE LABELING OF CELLULAR PROTEINS IN LIVE CELLS WITH FLUORESCENT ORGANIC DYES
Tomer Schwartz, Noa Alush, Sarit Cohen, Dikla Nachmias, Eyal Arbely, Natalie Elia
Ben-Gurion University of the Negev, Beer-Sheva, Israel
- PB-10 A CORRELATIVE STUDY OF OSTEOCLAST ADHESION TO BONE SURFACES
Michal Shemesh¹, Sefi Addadi², Yonat Milstein², Lia Addadi¹, Benny Geiger¹
¹*Weizmann Institute of Science, Rehovot, Israel*
²*B-nano Ltd., Rehovot, Israel*
- PB-11 STOMATAL CELL WALL CRYSTALLINITY: DISTINCTIVE STRUCTURAL PATTERNS IN DIVERSE PHYLOGENETIC GROUPS
Ilana Shtein^{1,2}, Yaniv Shelef², Ziv Marom², Benny Bar-On², Zoë A. Popper³, Einat Zelinger¹, Amnon Schwartz¹, Smadar Harpaz-Saad¹
¹*The Hebrew University of Jerusalem, Rehovot, Israel*
²*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
³*National University of Ireland Galway, Galway, Ireland*
- PB-12 CORRELATIVE CRYO-SOFT X-RAY TOMOGRAPHY AND STORM STUDY OF CHOLESTEROL CRYSTAL EARLY FORMATION IN CELLS
Neta Varsano¹, Sergey Kapishnikov², Tali Dadosh¹, Eva Pereiro³, Xueting Jin⁴, Howard Kruth⁴, Leslie Leiserowitz¹, Lia Addadi¹
¹*Weizmann Institute of Science, Rehovot, Israel*
²*Helmholtz-Zentrum Berlin, Berlin, Germany*
³*ALBA Synchrotron Light Source, Barcelona, Spain*
⁴*National Institutes of Health, Bethesda, Maryland, USA*
- PB-13 3D VISUALIZATION OF BIOLOGICAL TISSUES FROM MICROMETER TO NANOMETER SCALE USING CRYO-FIB-SEM
Netta Vidavsky¹, Anat Akiva¹, Lia Addadi¹, Steve Weiner¹, Andreas Schertel²
¹*Weizmann Institute of Science, Rehovot, Israel*
²*Carl Zeiss Microscopy GmbH, Oberkochen, Germany*
- PB-14 IMAGING NEONATAL CARDIOMYOCYTE FATE - REDUCED MATRIX RIGIDITY PROMOTES DEDIFFERENTIATION, CYTOKINESIS AND CLONAL EXPANSION
Yfat Yahalom-Ronen, Dana Rajchman, Rachel Sarig, Benjamin Geiger, Eldad Tzahor
Weizmann Institute of Science, Rehovot, Israel

Poster Session B (continued)

PB-15 AN INSIGHT INTO THE UNKNOWN TERRAIN OF SPERM STORAGE IN DROSOPHILA FEMALE USING CORRELATIVE MICROSCOPY

Einat Zelinger¹, Vlad Brumfeld², Katya Rechav², Yael Heifetz¹

¹*The Hebrew University of Jerusalem, Rehovot, Israel*

²*Weizmann Institute of Science, Rehovot, Israel*

PB-16 MOLECULAR INTERACTIONS UNDERLYING SYMMETRY REDUCTION AND NON-HELICAL PERTURBATIONS IN THE BACTERIAL FLAGELLAR FILAMENT

Yair Ben Shaul, Shlomo Trachtenberg

The Hebrew University of Jerusalem-Hadassah Medical School, Jerusalem, Israel

Materials Science

PB-17 INTRODUCING A NEW EDS DETECTOR DESIGN CAPABLE OF SUB 10NM ANALYTICAL SPACIAL RESOLUTION AND HIGH EDS SURFACE SENSITIVITY IN A FEG SEM

John Maddock, Simon Burgess, X. Li, James Holland

Oxford Instruments NanoAnalysis, High Wycombe, UK

PB-18 CHARACTERIZATION OF ALUMINA FIBERS

Rachel Marder¹, Miri Gandman¹, Galit Atiya¹, Carmen Cerecedo^{2,3},

Víctor Valcárcel^{2,3}, Wayne D. Kaplan¹

¹*Technion-Israel Institute of Technology, Haifa, Israel*

²*Neiker S.L. Spain, Coruña, Spain*

³*Tsinghua Innovation Center, Dongguan, China*

PB-19 MAXIMIZING THE POTENTIAL OF LAYERED COMPOUNDS FOR HYDROGEN PRODUCTION

Oren Meiron¹, Lothar Houban², Maya Bar Sadan¹

¹*Ben-Gurion University of the Negev, Beer-Sheva, Israel*

²*Weizmann Institute of Science, Rehovot, Israel*

PB-20 THE INFLUENCE OF SOLUTES ON GRAIN BOUNDARY MOBILITY IN ALUMINA

Ruth Moshe, Wayne D. Kaplan

Technion-Israel Institute of Technology, Haifa, Israel

PB-21 COMPOUND ELECTROSTATIC-MAGNETIC FINAL LENS SEM IMAGING FOR INCREASED VERSATILITY

Daniel Phifer, Ernst Jan Vesseur

FEI Company, Eindhoven, Netherlands

PB-22 RETRACTABLE PROJECTION LENS FOR STEM IN SEM; CONTINUING THE EVOLUTION OF LOW VOLTAGE STEM WITH THE HELIOS G4 FX

Daniel Phifer

FEI Company, Eindhoven, Netherlands

Poster Session B (continued)

- PB-23 IMPROVING THERMAL CONDUCTIVITY OF HYDROGENATED MAGNESIUM COMPACTS WITH THE AID OF CARBON NANOPARTICLES
Larisa Popilevsky, Vladimir Skripnyuk, Yaron Amouyal, Eugen Rabkin
Technion-Israel Institute of Technology, Haifa, Israel
- PB-24 A METHOD OF RELIABILITY ASSESSMENT OF EFUSE ROM (READ ONLY MEMORY) IN CMOS BASED ASIC MICRO CONTROLLERS
Eddie Redmard, Gilad Hemo
SanDisk, Kfar Saba, Israel
- PB-25 MICROSTRUCTURE EVOLUTION OF THE HAVAR ALLOY DURING COLD WORK
Sergei Remennik², Shlomo Haroush^{1,2}, Vladimir Ezersky², Daniel Moreno³, Ido Silverman³, Yaniv Gelbstein², Roni Zvi Shneck²
¹*Nuclear Research Center Negev, Beer-Sheva, Israel*
²*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
³*Nuclear Research Center Soreq, Yavne, Israel*
- PB-26 THE GENERATION AND REGENERATION OF BIOLOGICAL WAX IN REGARDS TO SURFACE WETTABILITY ON PLANT LEAVES
Benjamin Rich, Boaz Pokroy
Technion-Israel Institute of Technology, Haifa, Israel
- PB-27 PRECESSION ELECTRON DIFFRACTION TOMOGRAPHY AS A ROUTINE METHOD FOR STRUCTURE SOLUTION OF ALLUMINIDES
Shmuel Samuha^{1,2}, Benjamin Grushko^{3,4}, Louisa Meshi¹
¹*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
²*Nuclear Research Center Negev, Beer-Sheva, Israel*
³*Forschungszentrum, Jülich, Germany*
⁴*Material-Technologie & Kristalle, Jülich, Germany*
- PB-28 TEM STUDIES OF Ni AND Mn FULL CONCENTRATION GRADIENT MATERIALS AS CATHODES FOR Li ION BATTERIES
Hadar Sclar¹, Judith Grinblat¹, Evan Erickson¹, Hana Bouzaglo¹, Florian Schipper¹, Chandan Ghanty¹, Boris Markovsky¹, Yang-Kook Sun², Doron Aurbach¹
¹*Bar-Ilan University, Ramat-Gan, Israel*
²*Hanyang University, Seoul, South Korea*
- PB-29 TRIPLE BEAM MULTI-MODAL ANALYSIS OF LITHIUM ION BATTERIES
Rostislav Vana, Jiri Dluhos, **Libor Sedlacek**
TESCAN BRNO, s.r.o., Brno, Czech Republic
- PB-30 3D SHAPING OF ELECTRON BEAMS
Roy Shiloh, Ady Arie
Tel Aviv University, Tel Aviv, Israel

Poster Session B (continued)

- PB-31 STEPS AT INTERFACES IN SrTiO₃ AND THEIR ROLE IN KINETIC PROCESSES
Hadas Sternlicht¹, Wolfgang Rheinheimer², Alex Mehlmann¹, Avner Rothchild¹,
Michael J. Hoffmann², Wayne D. Kaplan¹
¹*Technion-Israel Institute of Technology, Haifa, Israel*
²*Karlsruhe Institute of Technology, Karlsruhe, Germany*
- PB-32 HIERARCHICAL CRYSTALLIZATION OF MEDICINES FROM NANOMICELLES
Tanya Turovsky¹, Dganit Danino¹, Yechezkel Barenholz²
¹*Technion-Israel Institute of Technology, Haifa, Israel*
²*The Hebrew University of Jerusalem-Hadassah Medical School, Jerusalem, Israel*
- PB-33 MECHANISTIC INSIGHTS INTO CRYSTALLIZATION. PERYLENE DIIMIDE BASED
ORGANIC NANOCRYSTALS IN AQUEOUS MEDIA
Haim Weissman, Yael Tsarfati, Shaked Rossene, Boris Rybtchinski
Weizmann Institute of Science, Rehovot, Israel
- PB-34 OPTICAL CHARACTERIZATION OF A SINGLE WS₂ NANOTUBE
Lena Yadgarov^{1,2}, Eitam Vinegrad¹, Michael Mrejen², Ori Cheshnovsky¹,
Haim Suchowski²
Tel Aviv University, Tel Aviv, Israel
- PB-35 THE GEOMETRY AND MECHANICS OF SELF-ASSEMBLED CHIRAL NANOSTRUCTURE
Mingming Zhang¹, Doron Grossman¹, Luba Kolik², Dganit Danino², Eran Sharon¹
¹*The Hebrew University of Jerusalem, Jerusalem, Israel*
²*Technion-Israel Institute of Technology, Haifa, Israel*
- PB-36 PHASE TRANSFORMATIONS IN EQUIATOMIC Al-Co-Cr-Fe-Ni HIGH ENTROPY ALLOY
Yatir Linden¹, Shai Salhov², Abraham Munitz², Malki Pinkas², Louisa Meshi¹
¹*Ben-Gurion University of the Negev, Beer-Sheva, Israel*
²*Nuclear Research Center Negev, Beer-Sheva, Israel*
- PB-37 THE GENESIS OF ADIABATIC SHEAR BAND
Peri Landau¹, Shmuel Osovski², Arie Venkert³, Viera Gartnerova⁴, Daniel Rittel²
¹*Nuclear Research Center Negev, Beer-Sheva, Israel*
²*Technion-Israel Institute of Technology, Haifa, Israel*
³*Nuclear Research Center Negev, Beer-Sheva, Israel*
⁴*Institute of Physics, Prague, Czech Republic*

DEVICE FABRICATION COMPETITION

Tuesday, May 31, 2016 13:30 – 14:30

Hall A

- PA-37 DAVID (MICHELANGELO) NONLINEAR METAMATERIALS FOR HOLOGRAPHY
Ora Bitton, Euclides Almeida, Yehiam Prior
Weizmann Institute of Science, Rehovot, Israel
- PA-38 OUR GROUP INVESTIGATED THE ELECTRICAL AND MECHANICAL PROPERTIES OF THE P(VDF-TRFE-CFE) ELECTRO ACTIVE POLYMER AND DEVELOPED CUSTOM PROCESSING TOWARDS INTEGRATING WITH CONVENTIONAL FABRICATION TECHNOLOGIES
Moti Ben-David, Leeya Engel, Ramon Axelrod, Yosi Shacham-Diamand, Slava Krylov
Tel Aviv University, Tel Aviv, Israel
- PA-39 A PARALLEL AND SIMPLE FABRICATION OF MULTIPLE PHOTODETECTORS BASED ON GUIDED GROWTH OF ZnSe NANOWIRES
Eitan Oksenberg, Ernesto Joselevich
Weizmann Institute of Science, Rehovot, Israel
- PA-40 FROM MICRO TO NANO: TOWARDS ELECTRICAL BIASING EXPERIMENTS
Roy Shiloh, Ady Arie
Tel Aviv University, Tel Aviv, Israel

MICROGRAPH COMPETITION

Hall A

- PA-41 THE MICROTUBULES HIGHWAY MESH OF THE CELLULAR MILIEU
Tali Dadosh, Liran Ben Yaakov
Weizmann Institute of Science, Rehovot, Israel
- PA-42 EXPERIMENTAL ELECTRON RONCHIGRAM AT THE EDGE OF A BN 001 CRYSTAL SHOWING KIKUCHI LINES WHEN THE PROBE IS WELL UNDERFOCUSED
Vladimir Ezersky
Ben-Gurion University of the Negev, Beer-Sheva, Israel
- PA-43 DO YOU WANT TO BUILD A NANO SNOWMAN?
Youngjin Jang
Technion-Israel Institute of Technology, Haifa, Israel
- PA-44 CARDIOMYOCYTE SHOWING COMPLEX SARCOMERIC PROTEIN NETWORK
Yair Lewis, Izhak Kehat
Technion-Israel Institute of Technology, Haifa, Israel
- PA-45 MICROSCOPIC WONDERLAND
Ilana Shtein
Ben-Gurion University of the Negev, Beer-Sheva, Israel
- PA-46 EVOLUTION IN THE MERISTEM
Einat Zelinger, Leor Williams-Eshed
The Hebrew University of Jerusalem, Rehovot, Israel
- PA-47 ACTING FILAMENTS OF THE GIANT AMOEBA
Liran Ben Yaakov
Weizmann Institute of Science, Rehovot, Israel
- PA-48 LITTLE SHOP OF HORRORS (CARNIVOROUS PLANT)
Ofir Friedman
Ben-Gurion University of the Negev, Beer-Sheva, Israel
- PA-49 THE MICRO BRITISH ISLAND
Nimrod Gazit, Eugen Rabkin
Technion-Israel Institute of Technology, Haifa, Israel
- PA-50 TAKE A GLASS OF WINE AND LETS CELEBRATE ISM'S 50TH ANNIVERSARY!
Gilad Hemo, Eddie Redmard
SanDisk, Omer, Israel
- PA-51 BIG OR SMALL THEY ALL HAVE POWERS, ROSSES, DAISIES OR NANOFLOWERS
Oren Meiron
Ben-Gurion University of the Negev, Beer-Sheva, Israel

MICROGRAPH COMPETITION (continued)

PA-52 REVERSE CONNECTION

Maria Koifman Khristosov

Technion-Israel Institute of Technology, Haifa, Israel

PA-53 SCIENTIFIC VOLCANO (IN THE NIGHT)

Vladimir Yu. Kolosov

Ural Federal University, Ekaterinburg, Russia

PA-54 **HAMANTASHEN**

Hadar Nahor, Wayne D. Kaplan

Technion-Israel Institute of Science, Haifa, Israel

FEI PROFILE (B/W)

FEI AD (1) COLOR

FEI AD (2) COLOR

AVBA (B/W)

AVBA AD (1) COLOR

AVBA AD (2) COLOR

PICOTECH B/W

PICOTECH AD 1 - COLOR

PICOTECH AD 2 - COLOR

DANYEL BIOTECH – AD - COLOR

IDEA GROUP – AD - COLOR