



# **POROUS SEMICONDUCTORS – SCIENCE and TECHNOLOGY**

**PSST 2014 Conference Program**

**9-14 March 2014, Hotel Melia Benidorm  
Alicante-Benidorm, SPAIN**

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# PSST 2014 PROGRAM

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SUNDAY, 09.03.2014

	<b>INTRODUCTORY SHORT COURSE (TUTORIALS)</b> Chair – Prof. Andres Cantarero, University of Valencia, Spain
14:30-15:00	"SURVEY OF FABRICATION TECHNIQUES AND CURRENT APPLICATIONS OF POROUS SEMICONDUCTORS", Dr. Leigh Canham, Psi Vida, UK
15:15-15:45	"POROUS SILICON – ELECTRONIC & OPTOELECTRONIC APPLICATIONS", Prof. Nobuyoshi Koshida, Tokyo University, Japan
15:45-16:15	Coffee break
16:15-16:45	"BIOMEDICAL AND SENSOR APPLICATIONS OF POROUS SEMICONDUCTORS", Prof. Michael Sailor, San Diego University, USA
17:00-17:30	"ENERGY CONVERSION, PHOTOCATALYSIS AND STORAGE WITH POROUS SEMICONDUCTORS", Prof. Thierry Djenizian, University of Aix-Marseille, France
19:00-20:00	WELCOME PARTY for the PSST 2014 Participants
20:00-22:00	Dinner

END of the DAY

## MONDAY, 10.03.2014

SESSION	Time	WEB number	Present. number	AUTHORS; TITLE
	09:00-9:20			<b>PSST 2014 INAUGURATION</b>
Session 01 – ECE and MACE	09:20-9:40	35	01-O-01	Kurt W Kolasinski, William Brett Barcaly MECHANISM CHANGES CAUSED BY METAL CATALYST DURING SILICON ETCHING
	9:40-10:00	83	01-O-02	Roey Elnathan, Hashim Alhmoud, Bahman Delalat, Nico Voelcker ENGINEERING SILICON NANOWIRE ARRAYS FOR DELIVERING BIOMOLECULAR CARGOS TO MAMMALIAN CELLS
Session 02 – Pore filling	10:00-10:20	180	02-O-01	Kata Hajdu, Jessica Marquez, Laszlo Zimanyi, Csilla Gergely, Vivechana Agarwal, Gabriela Palestino, Laszlo Nagy REDOX INTERACTION IN RC/PSiMc BIO-NANOCOMPOSITE
	10:20-10:40	198	02-O-02	Mark-Daniel Gerngross, Jürgen Carstensen, Helmut Föll MAGNETIC METAL DEPOSITION IN ULTRA-HIGH ASPECT RATIO INP MEMBRANES – FFT-IS OF THE GROWTH PROCESS AND MAGNETIC PROPERTIES
	10:40-11:00	Coffee break		
Session 03 - Luminescence and Microphonics	11:00-11:40	251- inv.	03-I-01	Hariharsudan Sivaramakrishnan Radhakrishnan, Jan Van Hoeymissen, Ivan Gordon, Robert Mertens, Jef Poortmans DESIGN CONSIDERATIONS FOR THE IMPLEMENTATION OF A POROUS SILICON-BASED BRAGG REFLECTOR IN EPITAXIAL SILICON SOLAR CELLS
	11:40-12:00	125	03-O-02	Neta Arad-Vosk, Amichai Ron, Rotem Beach, Na'ama Rozenfeld, Amir Sa'ar INFLUENCE OF SURFACE CHEMISTRIES ON THE RADIATIVE AND THE NONRADIATIVE RELAXATION PROCESSES IN POROUS SILICON
	12:00-12:20	136	03-O-03	Giovanni Polito, Salvatore Surdo, Valentina Robbiano, Giulia Tregnago, Franco Cacialli, Giuseppe Barillaro PHOTOLUMINESCENT LIGHT SOURCE ARRAYS BY SINERGIC INTEGRATION OF CONJUGATED LUMINESCENT POLYMERS AND THREE-DIMENSIONAL SILICON MICROSTRUCTURES
Session 04 - Electronic applications	12:20-12:40	200	04-O-01	Panagiotis Sarafis, Androula Galiouna Nassiopoulou, Jean-Pierre Raskin, Markku Aberg RF PROPERTIES OF POROUS SILICON BETWEEN 140-210 GHz
	12:40-13:00	40	04-O-02	Samuel Menard DIELECTRIC BEHAVIOR OF POROUS SILICON GROWN FROM P-TYPE SUBSTRATES
	13:00-15:00	Lunch		
Session 05 - Emerging applications	<b>15:00-15:30</b>	158	05-I-01	Angela Longo, Lucanos M Strambini, Giuseppe Barillaro A VERSATILE ROUTE FOR THE FABRICATION OF SILICON MICRONEEDLES FOR TRANSDERMAL APPLICATIONS BY ELECTROCHEMICAL MICROMACHINING TECHNOLOGY
	<b>15:30-16:00</b>	43	05-O-02	Nicolas H. Voelcker NANOSTRUCTURED SILICON IN SURFACE-ASSISTED LASER DESORPTION/IONISATION MASS SPECTROMETRY: A WAR OF ACRONYMS
	16:00-16:20	138	05-O-03	Tero Jalkanen, Vicente Torres-Costa, Ermei Mäkilä, Martti Kaasalainen, Ryo Koda, Tetsuo Sakka, Yukio H Ogata, Jarno Salonen SELECTIVE OPTICAL RESPONSE OF HYDROLYTICALLY STABLE STRATIFIED POROUS SILICON RUGATE FILTERS TO LIQUID INFILTRATION

	16:20-16:40	Coffee break		
Session 05 - Emerging applicatio ns	16:40-17:00	205	05-O-04	Petra Granitzer, Klemens Rumpf, Roberto Gonzalez, Jeffery Coffey, Michael Reissner MAGNETIC PROPERTIES OF SUPERPARAMAGNETIC NANOPARTICLES LOADED INTO SILICON NANOTUBES
	17:00-17:20	255	05-O-05	Jan Grym COMPLIANT SUBSTRATES BASED ON POROUS GaAs FOR EPITAXIAL GROWTH
	17:20-17:40	72	05-O-06	Taryn M Guinan, Paul Kirkbride, Maurizio Ronci, Hilton Kobus, Nicolas Voelcker DIRECT DETECTION OF ILLICIT DRUGS FROM SALIVA USING POROUS SILICON MICROPARTICLE LASER DESORPTION/IONIZATION MASS SPECTROMETRY
Talk of the day voting				
	18:00-21:00	<b>POSTER SESSION I (56)</b>		
	18:30-19:00	Coffee and water service		
	20:00-21:00	After poster session meeting		
Session 01 -  ECE and MACE  (16 Posters)		9	01-P1-03	SeifEddine Belhadj NEW METHOD WITH LOW-COST TO MC-SI NANOSTRUCTURE
		107	01-P1-04	Angélique Fèvre, Samuel Ménard, Thomas Defforge, Gaël Gautier POROUS SILICON FORMATION BY HOLE INJECTION FROM BACK SIDE P/N JUNCTION IN LOW DOPED N-TYPE SILICON FOR ELECTRICAL INSULATION
		120	01-P1-05	Stefanie Greil, Lars Korte, Jorg Rappich, Bern Rech, Stephane BASTIDE METAL ASSISTED CHEMICAL ETCHING OF AMORPHOUS SILICON
		139	01-P1-06	Stefanie Greil, Lars Korte, Jorg Rappich, Bern Rech, Stephane BASTIDE METAL-ASSISTED CHEMICAL ETCHING OF SILICON UNDER INHOMOGENEOUS ILLUMINATION
		141	01-P1-07	Sofia Rodichkina, Liubov Osminkina, Alexander Pavlikov, Andrey Zoteev, Victor Timoshenko RAMAN SPECTROSCOPY STUDY OF LIGHT-INDUCED HEATING OF SILICON NANOWIRES FORMED BY METAL-ASSISTED CHEMICAL ETCHING
		143	01-P1-08	Alexandra Efimova, Aleksandr Tkachev, Kirill Gonchar, Lubov Osminkina, Leonid Golovan, Victor Timoshenko, Dmitry Petrov, A. Popov, V. Multian, Vladimir Gaivoronsky NEW EVIDENCE OF NON-RAYLEIGH TYPE OF LIGHT SCATTERING IN SILICON NANOWIRE ARRAYS FORMED BY METAL-ASSISTED CHEMICAL ETCHING
		152	01-P1-09	Ekaterina Vladimirovna Astrova ANISOTROPY EFFECTS IN MESOPOROUS SILICON
		165	01-P1-10	Ouertani Rachid STRUCTURAL INVESTIGATIONS OF SINWs SHAPED IN SI POWDER
		171	01-P1-11	Daeyoon Jung, Bomin Cho, Honglae Sohn FABRICATION AND CHARACTERIZATION OF POROUS SILICON NANOWIRES
		187	01-P1-12	Hashim Alhmoud, Taryn Monique Guinan, Roey Elnathan, Hilton Kobus, Nicolas Voelcker SURFACE-ASSISTED LASER DESORPTION IONIZATION MASS SPECTROMETRY USING ORDERED SILICON NANOWIRE ARRAYS

	194	01-P1-13	Masato Enomoto, Shinji Yae, Naoki Fukumuro, Susumu Sakamoto, Hitoshi Matsuda STRUCTURE CONTROL OF CATALYTIC NANOPORES ON SILICON FOR ELECTROLESS FORMATION OF ADHESIVE METAL FILM
	218	01-P1-14	Stefan L Schweizer MACE NANOWIRES FROM UPGRADED METALLURGICAL MULTI-CRYSTALLINE SI
	222	01-P1-15	Diego Chiabrando, Alessandro Cultrera, Emanuele Enrico, Luca Boarino POROUS SILICON NANOWIRES FABRICATION BY METAL-ASSISTED ETCHING, STRUCTURAL AND ELECTRICAL CHARACTERIZATION
	234	01-P1-16	Marwa Karim, Roberto Martini, Hariharsu Sivaramakrishnan, Valerie Depauw, Wegdan Ramadan, Kris Nieuwenhuysen, Ivan Gordon, Jef Poortmans TUNING OF STRAIN AND ROUGHNESS OF POROUS SILICON LAYERS FOR HIGHER-QUALITY SEEDS FOR EPITAXIAL GROWTH
	265	01-P1-17	Sergii Tutashkonko MESOPOROUS GERMANIUM BY BIPOLAR ELECTROCHEMICAL ETCHING
	266	01-P1-18	Sergii Tutashkonko SINTERING OF MESOPOROUS GERMANIUM LAYERS
Session 02 – Pore filling (8 Posters)	16	02-P1-03	Najla Majoul APTES – FUNCTIONALIZATION BEHAVIOR OF POROUS SILICON
	60	02-P1-04	Claudia de Melo, Vicente Torres-Costa, J. Santoyo-Salazar, Moni Behar, Johnny Ferraz-Dias, Guillermo Santana, Osvaldo de Melo ENHANCING ZnTe INFILTRATION INTO POROUS SILICON BY ICSS FOR WHITE LUMINESCENCE STRUCTURES
	112	02-P1-05	Luca de Stefano PDFI-CN2 MODIFIED POROUS SILICON OPTICAL TRANSDUCERS FOR BIOCHEMICAL SENSING
	118	02-P1-06	Luisina Forzani, Felipe Andrés Garcés, Pablo Marcelo Rodi, Ana María Gennaro, Roberto Román Koropeccki LIPID BILAYER FORMATION WITHIN PORES IN MACROPOROUS SILICON
	150	02-P1-07	Joanna Wang, Rachel H Bisiewicz, Gha Y Lee, Xiaoyu C Cao, Jennifer S Park, Andrea Potocny, Michael J Sailor INFILTRATION OF POLYSTYRENE INTO POROUS SILICON RUGATE FILTER TEMPLATES
	193	02-P1-08	Thierry Djenizian HIGHLY CONFORMAL ELECTRODEPOSITION OF POLYMER ELECTROLYTE INTO SMOOTH TITANIA NANO-TUBES FOR ALL-SOLID-STATE LI-ION MICROBATTERIES
	201	02-P1-09	Vitaly Bondarenko, Hanna Bandarenka, Serghei Prischepa, Alexandr Shapel, Marco Balucani NANOSTRUCTURED MATERIALS FORMED BY DEPOSITION OF METALS IN POROUS SILICON: FORMATION FEATURES, PROPERTIES AND APPLICATIONS
	225	02-P1-10	Nicholas L Dmitruk POROUS DIELECTRICS SiO2 AND Al2O3 FOR OPTICAL SENSORS INCLUDING SURFACE PLASMON EFFECT IN INCORPORATED NANOPARTICLES
Session 03 –	26	03-P1-04	Clare Puttick, Ana Andres-Arroyo, Peter John Reece DISPERSION CONTROL IN POROUS SILICON PHOTONIC STRUCTURES
	28	03-P1-05	Estela Gomez-Barojas, G Santamaria-Juarez, Jose Alberto Luna Lopez, Rutilo Silva Gonzalez, Enrique Sanchez Mora

Luminescence and Microphotonics  (13 Posters)			STUDY OF THE FLUORESCENT PROPERTIES OF FLUORESCEIN DEPOSITED ON POROUS SILICON DIELECTRIC MIRRORS
	50	03-P1-06	Alessandro Virga, Paola Rivolo, Francesca Frascella, Angelo Angelini, Emiliano Descrovi, Francesco Geobaldo, Fabrizio Giorgis SINGLE MOLECULE DETECTION IN RESONANT SERS REGIME IN METAL-DIELECTRIC NANOSTRUCTURES BASED ON POROUS SILICON
	75	03-P1-07	Alyena Fedorovna Dyadenchuk QUANTUM DOTS GaN ON THE POROUS SEMICONDUCTOR GaAs BY NITRIDATION
	77	03-P1-08	Néstor David Espinosa-Torres, José Francisco Javier Flores-Gracia, José Alberto Luna-López, Diana Elizabeth Vázquez-Valerdi EVALUATION OF OPTICAL AND ELECTRONIC PROPERTIES OF SILICON NANO-AGGLOMERATES APPLYING DENSITY FUNCTIONAL THEORY
	91	03-P1-09	Vitaly Borisovich Pikulev, Svetlana Vladimirovna Loginova, Valery Alekseevich Gurtov 'WRAPAROUND' MODEL OF LOCALISATION OF SILICON NANOPARTICLES IN CELLULOSE MATRIX
	121	03-P1-10	Luca de Stefano FUNCTIONALIZATION OF ZINC OXIDE HYDROTHERMAL NANOWIRE FOR OPTICAL BIOSENSING
	153	03-P1-11	Ekaterina Vladimirovna Astrova OPTICAL PROPERTIES OF A COMPOSITE MICROCAVITY BASED ON MACROPOROUS SILICON
	235	03-P1-12	Natalia Ivanivna Berezovska STUDY OF LOCAL MODIFICATIONS OF POROUS III-V SEMICONDUCTORS
	237	03-P1-13	L.A. Golovan NONLINEAR-OPTICAL RESPONSE OF SILICON NANOWIRE ARRAYS: THIRD-HARMONIC GENERATION AND COHERENT ANTI-STOKES RAMAN SCATTERING
	242	03-P1-14	José A. Luna Lopez COLLOIDAL SILICON NANOCRYSTAL SYNTHESIS FROM POROUS SILICON
	267	03-P1-15	Aleksandr Lenshin, Vladimir Kashkarov, Pavel Seredin, Boris Agapov, Dmitriy Minakov, Evelina Domashevskaya THE STUDY OF PHOTOLUMINESCENCE DEGRADATION IN POROUS SILICON KEPT IN THE ATMOSPHERE
	217	03-P1-16	Nawel Chiboub STABILIZATION OF POROUS SILICON LUMINESCENCE BY POLYANILINE GRAFTING
	Session 04 –  Electronic applications  (6 Posters)	85	04-P1-03
98		04-P1-04	Didac Vega MACROPOROUS SILICON FOR HIGH-CAPACITANCE DEVICES USING METAL ELECTRODES
130		04-P1-05	Marie Capelle, Jerome Billoue, Joel Concord, Patrick Poveda, Gael Gautier MONOLITHIC INTEGRATION OF EMI FILTERS WITH ESD PROTECTION ON SILICON / POROUS SILICON HYBRID SUBSTRATES
146		04-P1-06	Marie Capelle, Jerome Billoue, Patrick Poveda, Gaël Gautier STUDY OF POROUS SILICON SUBSTRATES FOR THE INTEGRATION OF RADIOFREQUENCY CIRCUITS
169		04-P1-07	Gauhar Kalizhankyzy Mussabek, Kadyrjan Dikhanbayev

			LED STRUCTURES FORMED BY NITRIDING NANOPOROUS GAP BY ION IMPLANTATION
	<b>186</b>	04-P1-08	R. Suda, M. Yagi, A. Kojima, R. Mentek, B. Gelloz, N. Mori, J. Shirakashi, and N. Koshida APPLICATION OF BALLISTIC HOT ELECTRON EMISSION FROM NANOCRYSTALLINE POROUS SILICON TO THIN FILM DEPOSITION OF Si, Ge, AND SiG
Session 05 – Emerging applications (13 Posters)	<b>22</b>	05-P1-07	Maha AYAT IMMOBILIZATION OF ENZYME ON POROUS SILICON BY ELECTRON BEAM LITHOGRAPHY
	<b>23</b>	05-P1-08	Anouar HAJJAJI HAJJAJI PHOTOCATALYTIC ACTIVITY OF Cr-DOPED TiO <sub>2</sub> NANOPARTICLES DEPOSITED ON POROUS MULTICRYSTALLINE SILICON FILMS
	<b>48</b>	05-P1-09	Jianmin Wu, Jie Tan, Tong Li VISUALIZATION OF LATENT FINGERPRINTS IMAGE ON ELECTROCHEMILUMINESCENT POROUS SILICON
	<b>78</b>	05-P1-10	Maha AYAT Formation of Nanostructured Silicon surfaces by Stain Etching
	<b>88</b>	05-P1-11	Chiara Novara, Francesco Petracca, Alessandro Virga, Paola Rivolo, Francesco Geobaldo, Samuele Porro, Fabrizio Giorgis SERS ACTIVE SILVER NANOPARTICLES IN MESOPOROUS SILICON SYNTHESIZED BY INKJET PRINTING
	<b>97</b>	05-P1-12	Josep Ferre-Borrull EFFECT OF THE NUMBER OF CYCLES AND OF THE ANODIZATION TEMPERATURE ON NANOPOROUS ANODIC ALUMINA CYCLIC ANODIZATION
	<b>103</b>	05-P1-13	Guido Mula, Lucy Loddo, Michele Mascia, Simonetta Palmas, Roberta Ruffilli, Andrea Falqui VOLTAGE TRANSITORY EFFECTS AND THE EFFECTIVENESS OF THE ER DOPING OF POROUS SILICON
	<b>127</b>	05-P1-14	Jinmyoung Joo, Jose F Cruz, Michael J Sailor FACILE SYNTHESIS OF HIGHLY LUMINESCENT CORE-SHELL POROUS SILICON/SILICON OXIDE NANOPARTICLES
	<b>161</b>	05-P1-15	Alexey Dolgiy, Sergej Prischepa MAGNETIC PROPERTIES OF NI NANOWIRES IN POROUS SILICON
	<b>177</b>	05-P1-16	Daria Deygen, Alexander Vorontsov, Elizaveta Konstantinova EPR STUDY OF CARBON-DOPED POROUS TITANIUM DIOXIDE
	<b>220</b>	05-P1-17	Aliaksandr Smirnov CONTROLLABLE ULTRATHIN NANOPOROUS SILICON FILM'S FABRICATION PROCESS FOR A "LAB-ON-SI CHIP" BIOSENSING PLATFORM
	<b>245</b>	05-P1-18	Zorayda Lazcano, Octavio Meza, Jesus Arriaga LOCALIZATION OF ACOUSTIC MODES IN PERIODIC POROUS SILICON STRUCTURES
	<b>246</b>	05-P1-19	Klemens Rumpf, Petra Granitzer, Nobuyoshi Koshida, Peter Poelt, Michael Reissner MAGNETIC INTERACTIONS BETWEEN METAL NANOSTRUCTURES WITHIN POROUS SILICON

END of the DAY

## TUESDAY, 11.03.2014

SESSION	Time	WEB number	Present. number	Authors; TITLE
Session 06 – Medical diagnostics, Imaging and Therapy	09:00-09:20	239	06-O-01	Liubov Andreevna Osminkina, Vladimir Sivakov, Grigory Mysov, Ulyana Natashina, Florian Talkenberg, Kirill Gonchar, Valery Solovyev, Andrey Kudryavtsev, Victor Timoshenko EVALUATION OF CYTOTOXICITY, PHOTOLUMINESCENCE AND BIOIMAGING PROPERTIES OF NANOPARTICLE SUSPENSIONS PREPARED FROM NONPOROUS AND POROUS SILICON NANOWIRES
	9:20-9:40	49	06-O-02	Adi Tzur-Balter, Jonathan M. Young, Lisa M. Bonanno-Young, Ester Segal MODELING AND PREDICTION OF DRUG RELEASE KINETICS FROM POROUS SI CARRIERS
	9:40-10:20	276- inv.	06-I-03	Victor Timoshenko POROUS SILICON FOR CANCER THERANOSTIC APPLICATIONS
	10:20-10:40	145	06-O-04	Mohammad-Ali Shahbazi, Chang-Fang Wang, Patrick V. Almeida, Ermei Mäkilä, Martti Kaasalainen, Anu Airaksinen, Mirkka Sarparanta, Jarno Salonen, Jouni Hirvonen, Hélder A. Santos NOVEL POROUS SILICON NANOCOMPOSITES FOR CANCER THERAPY
	10:40-11:00	124	06-O-05	Valeriy Antonovich Skryshevsky, Tetiana SERDIUK, Sergey alekseev, vladimir lysenko, Alain Geloën APPLICATION OF ELECTROCHEMICALLY ETCHED SIC FOR FLUORESCENT BIOIMAGING AND THERAPY
	11:00-11:20	coffee break		
Session 06 – Medical diagnostics, Imaging and Therapy	11:20-12:00	114- inv.	06-I-06	Emilie Secret, Jean-Olivier Durand, Frederique Cunin, Nicolas Voelcker ANTIBODY-FUNCTIONALIZED POROUS SILICON NANOPARTICLES
	12:00-12:20	148	06-O-07	Kelsey R Beavers, Jeremy W Mares, Caleb M Swartz, Yiliang Zhao, Sharon M Weiss, Craig L Duvall POROUS SILICON FUNCTIONALIZATION FOR DRUG DELIVERY AND BIOSENSING BY IN SITU PEPTIDE NUCLEIC ACID SYNTHESIS
	12:20-12:40	181	06-O-08	Lluís Marsal pH-RESPONSIVE DRUG DELIVERY SYSTEM BASED ON HOLLOW SILICON DIOXIDE MICROPILARS COATED WITH POLYELECTROLYTE MULTILAYERS
	12:40-13:00	248	06-O-09	Yazad Irani, Yuan Tian, Mengjia Wang, Sonja Klebe, Nicolas Voelcker, Keryn Williams, Jeffery Coffey POROUS SILICON-POLYCAPROLACTONE FIBER COMPOSITES AS DUAL-PURPOSE OPHTHALMIC IMPLANTS
	13:00-14:40	Lunch		
Session 06 – Medical diagnostic, Imaging and Therapy	14:40-15:20	277- inv.	06-I-10	B. R. Horrocks SILICON QUANTUM DOTS FROM POROUS SILICON: PROPERTIES AND APPLICATIONS IN BONE BIOLOGY
	15:20-15:40	17	06-O-11	Ciro Chiappini, Carina Almeida, Paola Campagnolo, Lesley Chow, Molly M Stevens POROUS SILICON NANONEEDLES: A PLATFORM FOR INTRACELLULAR SENSING
	15:40-16:00	109	06-O-12	Pierre-Yves Collart-Dutilleul, Fran Harding, Marta Martin, Ivan Panayotov, Csilla Gergely, Frédérique Cunin, Nico Voelcker, Frédéric Cuisinier INFLUENCE OF PORE DIAMETER ON STEM CELLS ADHESION, SPREADING AND OSTEODIFFERENTIATION ON POROUS SILICON



				SCAFFOLDS
	16:00-16:20	228	06-O-13	Liubov Andreevna Osminkina, Svetlana Shevchenko, Igor Shilovsky, Galina Kornilaeva, Maxim Gongalsky, Konstantin Tamarov, Musa Khaitov, Edward Karamov, Victor Timoshenko POROUS SILICON NANOPARTICLES VERSUS DANGEROUS VIRUSES
	16:20-16:40	coffee break		
Session 06 - Medical diagnostics, Imaging and Therapy	16:40-17:20	31- inv.	06-I-14	Adi Tzur-Balter, Margarita Beckerman, Natalie Artzi, Ester Segal TRACKING AND UNRAVELLING THE EROSION MECHANISM OF NANOSTRUCTURED POROUS SI CARRIERS IN NEOPLASTIC STATE
	17:20-17:40	240	06-O-15	Yuan Tian, Roberto Gonzalez, Giridhar R Akkaraju, Jeffery L Coffey SILICON NANOTUBE-BASED GENE DELIVERY
	17:40-18:00	129	06-O-16	Arnaud Chaix ONE AND TWO-PHOTON ACTIVATION OF PORPHYRIN-FUNCTIONALIZED POROUS SILICON NANOPARTICLES FOR IMAGING AND PHOTODYNAMIC THERAPY
	18:00-18:20	46	06-O-17	Jianmin Wu, Xiao Li, Jie Tan ENHANCMENT OF MALDI SIGNAL ON GOLD MODIFIED POROUS SILICON FOR DIRECT SERUM PEPTIDE ANALYSIS
Talk of the day voting				
	18:30-21:30	POSTER SESSION II (48)		
	18:30-19:00	coffee and water service		
	20:30-21:30	After poster session meeting		
Session 06 - Medical diagnostics, Imaging and Therapy  (24 Posters)	32		06-P2-18	Adi Tzur-Balter, Neta Zilony, Orit Shefi, Ester Segal BOMBARDING CANCER: BIOLISTIC DELIVERY OF THERAPEUTICS USING POROUS SI CARRIERS
	47		06-P2-20	Guo-Hui Pan, Alexandre Barras, Luc Boussekey, Xuesong Qu, Rabah Boukherroub ALKYLATED SILICON NANOCRYSTALS: PREPARATION, CHARACTERIZATION AND ENCAPSULATION IN LIPID AND SILICA NANOPARTICLES
	64		06-P2-21	Denis Terin THE BEHAVIOR OF SILICON NANOSTRUCTURES IN WATER AND BIOLOGY ACTIVE MEDIA
	65		06-P2-22	Morteza Hasanzadeh Kafshgari, Alex Cavallaro, Bahman Delalat, Steven McInnes, Ermei Mäkilä, Martti Kaasalainen, Jarno Salonen, Krasi Vasilev, Nicolas Voelcker BACTERIAL GROWTH INHIBITED BY NITRIC OXIDE RELEASING POROUS SILICON NANOPARTICLES
	66		06-P2-23	Ciro Chiappini, Mathew Hembury, Sergio Bertazzo, Tammy Kalber, Glenna Drisko, Simon Walker-Samuel, Ollie Ogunlade, Sai K Krishna, Challa S S R Kumar, Alexandra Porter, Mark Lythgoe, Cedric Boissere, Clement Sanchez, Molly M Stevens AU@SI NANORATTLES FOR CANCER THERANOSTICS
71		06-P2-24	Alessandro Virga, Alessandro Chiadò, Serena Ricciardi, Francesca Frascella, Chiara Novara, Paola Rivolo, Francesco Geobaldo, Fabrizio Giorgis Ag/pSi SERS PLATFORMS AS BIOSENSORS FOR OLIGONUCLEOTIDES/miRNA DETECTION	

73	06-P2-25	Katherine Webb, Dinesh Nadarassan USE OF HPLC IN THE ASSESSMENT OF MESOPOROUS SILICON AND SILICA SURFACE REACTIVITY
101	06-P2-26	Morteza Hasanzadeh Kafshgari, Bahman Delalat, Steven McInnes, Ermei Mäkilä, Martti Kaasalainen, Fran Harding, Jarno Salonen, Nicolas Voelcker OLIGONUCLEOTIDE RELEASE FROM CHITOSAN-FUNCTIONALIZED POROUS SILICON NANOPARTICLES
116	06-P2-27	Ilaria Rea, Annalisa Lamberti, Immacolata Ruggiero, Nicola Martucci, Paolo Arcari, Monica Terracciano, Ivo Rendina, Rosarita Tatè, Luca De Stefano BIOSILICA NANOVECTORS FROM DIATOMITE FOR DRUG DELIVERY IN CANCER CELLS
147	06-P2-28	Heidi Leonard, Sanahan Vijayakumar, Michael Sailor SYNTHESIS OF FLEXIBLE COMPOSITE POROUS SILICON-POLYMER FIXTURES AS POTENTIAL IMPLANTABLE DEVICES
157	06-P2-29	Lluís Marsal EFFECTS OF MACRO- VERSUS NANOPOROUS SILICON SUBSTRATES ON HUMAN AORTIC ENDOTHELIAL CELL BEHAVIOR
172	06-P2-30	Roberto Gonzalez Rodriguez, Jeffery L Coffey SILICON NANOTUBES: LOADING OF SUPERPARAMAGNETIC FE <sub>3</sub> O <sub>4</sub> NANOPARTICLES AND SURFACE FUNCTIONALIZATION
174	06-P2-31	Nancy Wareing, Giridhar Akkaraju, Yuan Tian, Roberto Rodriguez, Armando Loni, Leigh Canham, Jeffery Coffey IN VITRO ANALYSIS OF SURFACE MODIFIED STAIN-ETCHED POROUS SILICON MICROPARTICLES
184	06-P2-32	Roshan Bharath Vasani, Endre Szili, Nicolas Hans Voelcker STIMULUS-RESPONSIVE PLASMA POLYMER CAPS FOR CONTROLLED DRUG RELEASE FROM POROUS SILICON
185	06-P2-33	Caroline Morello, Roshan Bharath Vasani, Bahman Delalat, Stephanie Pace, Nicolas Hans Voelcker THERMALLY CONTROLLED REVERSIBLE CELL ADHESION ON POLY(N-ISOPROPYLACRYLAMIDE) MODIFIED POROUS SILICON SURFACES
191	06-P2-34	Maria Ariza Avidad MONITORING OF DEGRADATION OF POROUS SILICON PHOTONIC CRYSTALS USING DIGITAL PHOTOGRAPHY
212	06-P2-35	Martti Henrik Kaasalainen PEPTIDE LOADING ON POROUS SILICON NANOPARTICLES: EFFECTS OF SURFACE CHEMISTRY AND PEPTIDE PROPERTIES
213	06-P2-36	Alexander Kharin NANOPARTICLES PREPARED FROM POROUS SILICON CARBIDE FOR BIOIMAGING AND ULTRASOUND THERAPY APPLICATIONS
233	06-P2-37	Maxim Bronislavovich Gongalsky, Marina Kuimova, Victor Yur'yevich Timoshenko PHOTOLUMINESCENCE TRANSIENTS FOR PHOTOSENSITIZED GENERATION OF SINGLET OXYGEN BY POROUS SILICON MEASURED IN BROAD TIME SCALE
264	06-P2-38	Andrey P Sviridov, Luibov A Osminkina, Victor Yu Timoshenko, Valery G Andreev POROUS SILICON NANOPARTICLES AS EFFICIENT SONOSENSITIZERS FOR ULTRASOUND HYPERTHERMIA
59	06-P2-39	Konstantin Tamarov, Victor Timoshenko, Liubov Osminkina, Julia Kargina, Vladimir Nikiforov, Sergey Zinovyev, Andrey Ivanov HYPERTHERMIA EFFECT OF RADIOFREQUENCY RADIATION ON POR-

			SILICON NANOPARTICLES DISPERSED IN AQUEOUS SOLUTIONS
	122	06-P2-40	Luke Harry Batchelor, Armando Loni, Dinesh Naderassan, Leigh Canham GAS ADSORPTION/DESORPTION AND THERMOPOROMETRY ANALYSIS OF MILLED MESOPOROUS SILICON MICROPARTICLES FOR DRUG DELIVERY
	140	06-P2-41	Simo Näkki, Jussi Rytönen, Tuomo Nissinen, Joakim Riikonen, Paul Ek, Hongbo Zhang, Hélder Santos, Wujun Xu, Vesa-Pekka Lehto ENHANCED COLLOIDAL STABILITY OF THERMALLY OXIDIZED MESOPOROUS SILICON BY DUAL PEGYLATION
	164	06-P2-42	Daniel Wolverson MAGNETIC FIELD DEPENDENCE OF SINGLET OXYGEN GENERATION BY NANOPOROUS SILICON
Session 07 - GENERAL  (24 Posters)	6	07-P2-01	Eugenia Matveeva POROUS SILICON AS A CHOICE FOR A TECHNOLOGY TRANSFER FROM ACADEMIA TO INDUSTRY
	18	07-P2-02	Amel Slimani, Jean-Noël Chazalviel, François Ozanam, Mathis Plapp, Hervé Henry MACROPOROUS FORMATION IN P-TYPE SILICON:
	24	07-P2-03	Sonia Ben Salem, Zahra Ben Achour, Kamel Thamri, Oualid Touayar STUDY AND CHARACTERISATION OF POROUS COPPER OXYDE PRODUCED BY ELECTROCHEMICAL ANODIZATION FOR RADIOMETRIC HEAT ABSORBER
	38	07-P2-04	Riccardo Rurali THEORETICAL MODELLING OF NANOSTRUCTURED SILICON: ARE NANOWIRES THE GRANDCHILDREN OF POROUS SILICON?
	45	07-P2-05	Denis Terin ELECTROPHYSICAL AND PHOTOELECTRICAL PROPERTIES OF POROUS SILICON WITH IRON
	87	07-P2-06	Amer Melhem, Domingos De Sousa Meneses, Caroline Andreatza, Thomas Defforge, Gael Gautier, Nadjib Semmar STRUCTURAL, OPTICAL AND THERMAL INVESTIGATIONS OF MESOPOROUS SILICON SUBSTRATES PREPARED BY ELECTROCHEMICAL ETCHING
	93	07-P2-07	Alessandro Cultrera, Luca Croin, Luca Boarino, Carlo Lamberti, Giampiero Amato SPACE CHARGE LIMITED CURRENT TRANSPORT IN UNFILLED MESOPOROUS NANOCRYSTALLINE TiO <sub>2</sub> FILMS
	100	07-P2-08	Diana Elizabeth Vazquez Valerdi, Jose Alberto Luna López, Jesús Carrillo López, Godofredo García Salgado, Alfredo Benitez Lara, Nestor Espinosa Torres COMPOSITIONAL AND OPTICAL PROPERTIES OF SiO <sub>x</sub> AND SiO <sub>x</sub> /SiO <sub>x</sub> FILMS DEPOSITED BY HFCVD
	166	07-P2-09	Guillaume Gommé, Gael Gautier, Marc Portail, Daniel Alquier, Fabrice Semond, Yvon Cordier ALN GROWN BY MBE ON SILICON-ON-POROUS SILICON SUBSTRATE
	178	07-P2-10	Alessio Palavicini, Pedro Alfaro, Chumin Wang OXYGEN ADSORPTION IN POROUS SILICON: AN INFRARED STUDY
	199	07-P2-11	Ruth Fabiola Balderas Valadez, Alma Gabriela Palestino Escobedo, Vivechana Agarwal POROUS SILICON FUNCTIONALIZATION FOR POSSIBLE ARSENIC ABSORPTION

219	07-P2-12	Sana Ben Amor A STUDY OF CHANGE IN STRUCTURAL AND OPTOELECTRONIC PROPERTIES ACCOMPANIED BY THE TREATMENT OF POROUS NC-Si:H LAYERS BY LIBR SOLUTION
241	07-P2-13	Yuri Strzheimchny, Puskar Chapagain, Petra Granitzer, Klemens Rumpf SURFACE PHOTOVOLTAGE SPECTROSCOPY ON Ni-FILLED POROUS SILICON PERFORMED IN VARIOUS GASES
247	07-P2-14	Pedro Valdes, Zorayda Lazcano, Diosdado Villegas, Jesus Arriaga, Rolando Perez-Alvarez TUNNELING TIMES OF ACOUSTIC PHONON PACKETS THROUGH A DISTRIBUTED BRAGG REFLECTOR
252	07-P2-15	Enrique Sanchez-Mora, Jesus Ivan Peña-Flores, Cesar Márquez-Beltrán, Estela Gómez-Barojas, Felipe Pérez-Rodríguez Fe EFFECT IN POROUS TiO <sub>2</sub> SUPPORTED ON SiO <sub>2</sub> OPALS
254	07-P2-16	Ridha Daik PURIFICATION OF THE TUNISIAN PHOSPHATE ROCK POROUS POWDER VIA CHEMICAL ATTACK FOLLOWED BY THERMAL TREATMENT AND GUETTERING EFFECT
256	07-P2-17	Zeuz Montiel, Salvador Escobar, Rocío Nava, J. Antonio Del Río, Julia Tagüeña SPECTROELLIPSOMETRIC STUDY OF DIFFERENT MICROSTRUCTURES OF POROUS SILICON LAYERS
257	07-P2-18	Oscar Marin, Raul Urteaga, David Comedi, Roberto Roman Koropecki DIODE FORMING EFFECT IN Al/POROUS SILICON/Al DEVICES
261	07-P2-19	Mario Enrique Rodriguez García A STUDY OF THE OPTICAL PROPERTIES OF POROUS SILICON MULTILAYER SYSTEMS BY USING A SUMMATION TECHNIQUE
262	07-P2-20	Padmavati Sahare, Vivechana Agrawal, Marcela Ayala Aceves, Rafael Vazquez Duhalt IMMOBILIZATION OF PEROXIDASE ENZYME ON MESOPOROUS SILICON
270	07-P2-21	Nikolay Le, Elizaveta Konstantinova, Pavel Kashkarov, Alexander Kokorin PROCESSES OF PARAMAGNETIC CENTER RECHARGE IN NITROGEN-DOPED POROUS TITANIUM DIOXIDE
271	07-P2-22	Tatiana Perova, Vladimir A. Tolmachev, Anna Baldycheva COUPLED SILICON-AIR FABRY-PEROT RESONATORS WITH TUNABLE TRIPLET MODES
273	07-P2-23	Mario Culebras SURFACE MORPHOLOGY EFFECT ON ELECTRICAL PROPERTIES IN CONDUCTING POLYMERS
274	07-P2-24	H Gammoudi, S. Helaly, R. Chtourou OPTICAL AND MORPHOLOGICAL CHARACTERIZATION OF THE PYRAMID / POROUS / SILANE / CARBON NANOTUBE STRUCTURE FOR THE APPLICATION OF SOLAR CELLS

END of the DAY

## WEDNESDAY, 12.03.2014

SESSION	Time	WEB number	Present. number	Authors; TITLE
Session 08 - Energy conversion and Batteries	9:00-9:40	231-inv.	08-I-01	Kestutis Grigoras, Jari Keskinen, Elina Uli-Ranta, Sampo Laakso, Hannu Välimäki, Pertti Kauranen, Jouni Ahopelto, Mika Prunnila ALD MODIFIED POROUS SILICON ELECTRODES FOR SUPERCAPACITORS
	9:40-10:00	142	08-O-02	Enrique Quiroga-Gonzalez SCALABLE PROCESSING AND CAPACITY OF SI MICROWIRE ARRAY ANODES FOR LI ION BATTERIES
	10:00-10:20	76	08-O-03	Erwann Luais, Ghamouss Fouad, Jérôme Wolfman, Sébastien Desplobain, Gaël Gautier, François Tran-Van, Joe Sakai ANODES BASED ON POROUS SILICON FILMS TRANSFERED ONTO FLEXIBLE METALLIC CURRENT COLLECTORS FOR LITHIUM-ION MICROBATTERIES
Session 09 - Microsyst. engineering	10:20-11:00	232-inv.	09-I-01	Salvatore Surdo, Lucanos M Strambini, Francesca Carpignano, Sabina Merlo, Giuseppe Barillaro HIGH-ASPECT-RATIO PHOTONIC CRYSTALS FOR CAPILLARY OPTOFLUIDICS: TOWARDS DROP-AND-MEASURE PLATFORMS
	11:00-11.20	coffee break		
Session 10 - Novel structures and Fabrication techniques	11:20-11:40	99	10-O-01	Luca Boarino, Natascia De Leo, Giulia Aprile, Luca Croin, Michele Laus, Katia Sparnacci, Federico Ferrarese Lupi, Gabriele Seguini, Michele Perego ORDERED MESOPORES THROUGH A DIBLOCK COPOLYMERS MASK
	11:40-12:00	117	10-O-02	Kiyoung Lee, Robert Hahn, Marco Altomare, Patrik Schmutk HIGHLY EFFICIENT PHOTOCATALYTIC H <sub>2</sub> PRODUCTION BY SELF-DECORATED NOBLE METAL PARTICLES ON TiO <sub>2</sub> NANOTUBE
	12:00-12:20	208	10-O-03	Hideki Masuda FABRICATION OF POROUS SILICON SPHERES BY ELECTROCHEMICAL ETCHING OF SILICON
	12:20-12:40	110	10-O-04	Lionel Santinacci BEYOND THE LIMITS OF ANODIC ALUMINA OXIDE: A NEW METHOD TO GROW SUB-10 NM NANOPOROUS MEMBRANE.
	12:40-13:00	144	10-O-05	Joshua D Winans, Jon-Paul S DesOrmeaux, Sarah Wayson, Tejas Khire, Christopher C Striemer, Thomas R Gaborski, James L McGrath A NOVEL METHOD USING POROUS NANOCRYSTALLINE SILICON TO FABRICATE NANOPOROUS SILICON NITRIDE MEMBRANES
	13:00-13:20	250	10-O-06	Emanuel Elizalde, Felipe Andres Garcés, Raúl Urteaga, Claudio Berli, Roberto Koropecski OPTOFLUIDIC PORE OPENING CONTROL IN NANOPOROUS ALUMINA
Talk of the day voting				
	13:30-15:00	Lunch; Advisory Board Meeting		
	15:00-19:00	ALICANTE SIGHTSEEING EXCURSION		
	19:00-20:00	Free time		
	20:00-22:00	Reception at tapas area in Alicante		
	22:30/23:00	Arrival to the Melia Benidorm Hotel		

END of the DAY

## THURSDAY, 13.03.2014

SESSION	Time	WEB number	Present. number	AUTHORS; TITLE
	9:00-12:00			<b>POSTER SESSION III (56)</b>
	11:00-11:30			coffee and water service
	12:00-12:20			After poster session meeting
Session 11 – Sensors	12:20-13:00	89- inv.	11-I-01	Gilberto A. Rodriguez, John D Lonai, Sharon M. Weiss POROUS SILICON BLOCH SURFACE AND SUB-SURFACE WAVE STRUCTURE FOR SIMULTANEOUS DETECTION OF SMALL AND LARGE MOLECULES
	13:00-13:20	36	11-O-02	Giorgi Shtenberg, Ester Segal REAL-TIME DETECTION AND QUANTIFICATION OF HEAVY METALS IN WATER BY OPTICAL BIOSENSORS
	13:20-15:00			Lunch
Session 11 - Sensors	15:00-15:20	92	11-O-03	Katharina Urmann, Johanna Gabriela Walter, Thomas Scheper, Ester Segal HIGHLY GENERIC APTAMER-BASED POROUS SI OPTICAL BIOSENSORS
	15:20-15:40	137	11-O-04	Eitan Edrei, Amit Nahor, Samuel Goldstein, Elena Tenenbaum, Naama Massad-Ivanir, Ester Segal, Amir Sa'ar RAPID OPTICAL SENSING OF BACTERIA AND CELLS USING POROUS SILICON BASED, PHOTONIC PHASE GRATINGS
	15:40-16:00	211	11-O-05	Gilles Scheen, Margherita Bassu, Antoine Douchamps, Chao Zhang, Marc Debliquy, Laurent Francis FUNCTIONALIZED MACROPOROUS SILICON CHEMIRESTOR FOR THE MINIATURIZATION OF HYDROGEN SENSORS
	16:00-16:20	162	11-O-06	Stephanie Pace, Sciacca Beniamino, Roshan Vasani, Tanya Monroe, Nicolas Voelcker POROUS SILICON COUPLED TO OPTICAL FIBRE FOR SENSING PH AND TEMPERATURE IN WOUND FLUID
	16:20-16:40			coffee break
Session 11 - Sensors	16:40-17:00	167	11-O-07	Vardan Galstyan NIOBIUM-TITANIUM NANOTUBULAR OXIDES FOR ENVIRONMENTAL MONITORING
	17:00-17:20	215	11-O-08	Tero Jalkanen, Anni Määttänen, Ermei Mäkilä, Jaani Tuura, Martti Kaasalainen, Vesa-Pekka Lehto, Petri Ihalainen, Jouko Peltonen, Jarno Salonen PRINTED SENSORS BASED ON POROUS SILICON PARTICLES
	17:20-17:40	82	11-O-09	Taryn M Guinan, Cedric Godefroy, Nicole Lautredou, Stephanie Pace, Pierre-Emmanuel Milhiet, Nicolas Voelcker, Frederique Cunin INTERACTION OF ANTIBIOTICS WITH LIPID VESICLES ON THIN FILM POROUS SILICON USING REFLECTANCE INTERFEROMETRIC FOURIER TRANSFORM SPECTROSCOPY
	17:40-18:00	275	11-O-10	Yannick Coffinier SILICON NANOSTRUCTURES MADE BY METAL ASSISTED ETCHING FOR DETECTION OF PEPTIDES BY MASS-SPECTROMETRY
				Talk of the day, of the Best Conference and Best Poster(s) voting
	18:30-20:00			Free time
	20:00-23:00			GALA DINNER and PRIZES (celebration at the Melia Benidorm Hotel)

END of the DAY

		9:00-12:20		POSTER SESSION III	
Session 08 – Energy conversion and Batteries  (12 Posters)	7	08-P3-04	Eugenia Matveeva MAKING A LITHIUM-ION BATTERY WITH NANOSTRUCTURED SILICON AS AN ANODE MATERIAL – ADVANTAGES, PROBLEMS AND PERSPECTIVES, A SMALL REVIEW		
	42	08-P3-05	Soundarrajan Chandrasekaran, Thomas Macdonald, Yatin Mange, Nicolas Voelcker, Thomas Nann WATER SPLITTING ON A QUANTUM DOT SENSITIZED POROUS SILICON PHOTOCATHODE		
	58	08-P3-06	Lee Bar-on, Michael Zenou, Amit Nahor, Inna Luybina, Micha Asscher, Roey Sagj, Gil Toker, Ora Eli, Irit Chen-Zamero, Evgeny Pikhay, Yakov Roizin, Zvi Kotler, Amir Sa'ar LOCAL ISOLATION OF HIGH-VOLTAGE PHOTOVOLTAIC SOLAR CELLS USING BURIED LAYERS OF OXIDIZED POROUS SILICON		
	168	08-P3-07	Mussabek Kalizhankzy OPTICAL AND PHOTOVOLTAIC PROPERTIES OF POROUS SILICON FILMS FORMED BY METAL-ASSISTED CHEMICAL ETCHING		
	108	08-P3-08	Lionel Santinacci ATOMIC LAYER DEPOSITION OF PD NANOPARTICLES ON TiO <sub>2</sub> NANOTUBES FOR ETHANOL ELECTROOXIDATION		
	123	08-P2-09	Ma. Estela Calixto, Samuel De La Luz-Merino, Antonio Méndez-Blas, Bernabé Marí-Soucase ELECTRODEPOSITION OF CuInSe <sub>2</sub> ON POROUS SILICON TEMPLATES FOR PHOTOVOLTAIC APPLICATIONS		
	151	08-P3-10	Romain Mentek, Daihei Hippo, Bernard Gelloz, Nobuyoshi Koshida PHOTOVOLTAIC EFFECT IN NANOCRYSTALLINE POROUS SILICON MEMBRANE CELLS WITH LARGE OPEN-CIRCUIT-VOLTAGE		
	192	08-P3-11	Thierry Djenizian SILICON NANOTUBE ARRAYS FOR HIGH PERFORMANCE LI-ION BATTERIES		
	195	08-P3-12	Amit Nahor, Itai Shalev, Shlomo Yitzchaik, Amir Saar OPTICAL AND PHOTOVOLTAIC PROPERTIES OF POROUS SILICON-CONJUGATED POLYMERS COMPOSITE STRUCTURES		
	202	08-P3-13	Sarah Kajari-Schröder, Manuel Stratmann, Jörg Käsewieder, Jan Hensen, Rolf Brendel IMPACT OF PICO-SECOND LASER PULSES ON BURIED THERMALLY REORGANIZED POROUS LAYERS		
	207	08-P3-14	Roberto Martini, Jan Sermeus, Kris Vanstreels, Bert Verstraeten, Mario Gonzalez, Valerie Depauw, Kris Van Nieuwenhuysen, Ivan Gordon, Christ Glorieux, Jef Poortmans ON THE ELASTIC RESPONSE OF SINTERED POROUS SILICON LAYERS		
	224	08-P3-15	Katerina Valalaki, Androula Galiouna Nassiopoulou THERMAL CONDUCTIVITY OF HIGHLY POROUS SILICON IN THE TEMPERATURE RANGE 5-350K		
Session 09 – Microsystems  (4 Posters)	126	09-P3-02	Ben Cheah MICROMACHINING OF POROUS SILICON USING MICROFLUIDIC FLOW		
	86	09-P3-03	Marie Capelle, Jérôme Billoué, Patrick Poveda, Gael Gautier EVALUATION OF THE STRAIN IN MESOPOROUS SILICON SUBSTRATES FOR RF CIRCUITS INTEGRATION		

	149	09-P3-04	Xiao Sun, Adrian Keating, Giacinta Parish RELEASED MICROMACHINED BEAMS UTILIZING LOW STRESS, UNIFORM POROSITY POROUS SILICON
	263	09-P3-05	Ulrich Mescheder, Isman Khazi, Andras Kovacs, Alexey Ivanov TUNABLE OPTICAL FILTERS WITH WIDE WAVELENGTH RANGE BASED ON POROUS MULTILAYERS
Session 10 – Novel Structures and Fabrication Techniques  (21 Posters)	10	10-P3-07	Eugenia Matveeva MESO-POROUS SILICON PARTICULATES WITH CONTROLLED THICKNESS AND POROSITY AND A SCALABLE METHOD TO FABRICATE THEREOF
	15	10-P3-08	Sören Schäfer, Sarah Kajari-Schröder, Rolf Brendel LITHOGRAPHY-FREE FORMATION OF ORDERED MACROPOROUS SILICON
	33	10-P3-09	Frédéric Blaffart, Abderraouf Boucherif, Vincent Aimez, Richard Arès, Laurent Francis CONTROL OF MESOPOROUS SILICON INITIATION BY CATHODIC PASSIVATION
	62	10-P3-10	Fedor N Dultsev KINETICS OF PORE SEALING IN LOW-K SIOCH FILMS UNDER VUV RADIATION
	81	10-P3-11	Lilia Zighed, Salah Rahmouni STUDY OF THE INFLUENCE OF ELECTROMAGNETIC FIELD ON THE PREPARATION OF POROUS SILICON
	94	10-P3-12	Marius Nabuurs, Roberto Martini, Valerie Depauw, Hariharsudan Sivaramakrishnan Radhakrishnan, Jun Qian, Ivan Gordon CUSTOM TABLE-TOP ANODISATION CELL FOR POROSIFICATION OF LARGE SILICON WAFERS
	102	10-P3-13	Thomas Defforge, Ioan Iurcut, Damien Valente, Gaël Gautier FORMATION OF HIGH ASPECT RATIO, HIGH DENSITY ZnO NANOWIRES BY POLYCRYSTALLINE ZINC FOIL ANODIZATION
	119	10-P3-14	Patrik Schmuki TiO <sub>2</sub> NANOTUBES: RECENT STRUCTURES AND APPLICATIONS
	133	10-P3-15	Anca Valentina Mazare, Jung Park, Patrik Schmuki NANOTUBE DIAMETER EFFECTS ON CELL ACTIVITY
	154	10-P3-16	Ekaterina Vladimirovna Astrova ZIGZAG WALL ARRAY OBTAINED BY ANISOTROPIC TREATMENT OF MACROPOROUS SILICON
	175	10-P3-17	Jhansi Kalluri, Whitney Cosey, Roberto Rodriguez-Gonzalez, Phil S Hartman, Armando Loni, Leigh T Canham, Jeffery L Coffey CONTROLLED DRUG DELIVERY FROM A SINGLE PLANT: STEM-DERIVED POROUS SILICON & LEAF-DERIVED DRUG
	182	10-P3-18	Edgar Eduardo Antunez, Miguel Angel Basurto, Jose Campos, Vivechana Agarwal MAGNETIC FIELD CONTROLLED SYNTHESIS OF PHOTOLUMINESCENT N-TYPE POROUS SILICON
	183	10-P3-19	Lluís Marsal HIGHLY REFLECTIVE UV-BLUE BAND IN NANOPOROUS ANODIC ALUMINA RUGATE FILTERS
	210	10-P3-20	Mark Goorsky, Xiaolu Kuo EPITAXIAL GROWTH OF INP ON POROUS INP: A TEMPLATE FOR LOW COST, LIGHT WEIGHT AND FLEXIBLE SEMICONDUCTOR DEVICE STRUCTURES



	214	10-P3-21	Ermei Mäkilä, Alex Cavallaro, Hélder Santos, Nicolas Voelcker, Jarno Salonen PLASMA POLYMERIZATION OF ALLYLAMINE ON POROUS SILICON MICROPARTICLES
	223	10-P3-22	Mi-Ae Park, Bomim Cho, Honglae Sohn FABRICATION AND OPTICAL CHARACTERIZATION OF VISIBLE PHOTOLUMINESCENT BRAGG-REFLECTIVE POROUS SILICON
	226	10-P3-23	Katerina Herynkova, Egor Podkorytov, Miroslav Slechta, Ondrej Cibulka, Jindrich Leitner, Ivan Pelant COLLOIDAL SOLUTIONS OF LUMINESCENT POROUS SILICON CLUSTERS WITH DIFFERENT CLUSTER SIZES
	229	10-P3-24	Sebastien Desplobain, Laurent Ventura, Thomas Defforge, Gael Gautier LATERAL HOMOGENEITY OF POROUS SILICON FILM ON SILICON WAFER
	230	10-P3-25	Julien Bustillo, Jérôme Fortineau, Gaël Gautier, Marc Lethiecq ULTRASONIC INVESTIGATION OF MESOPOROUS SILICON
	260	10-P3-26	Mario Enrique Rodriguez García STUDY OF THE KINETIC FORMATION OF POROUS SILICON USING A MODULATE DIFFERENTIAL PHOTOACOUSTIC ELECTROCHEMICAL CELL
	269	10-P3-27	Hanna Bandarenka, Vladimir Tsubulskii, Marco Balucani, Vitaly Bondarenko CHEMICAL RESISTANCE OF MESOPOROUS SILICON UNDER IMMERSION DEPOSITION OF COPPER
Session 11 - Sensors  (19 Posters)	30	11-P3-11	Arturo Ramirez-Porras, Vanessa Lopez, Adrian Gonzalez, Oscar García DC AND AC POLAR PROTIC SOLVENTS VAPOR SENSOR DEVELOPED FROM POROUS SILICON
	34	11-P3-12	Ying Zhu, Alex S Soeriyardi, Peter J Reece, Katharina Gaus, Justin Gooding MICROPATTERNED POROUS SILICON PHOTONIC CRYSTAL AND MULTIPLEXING ENZYME DETECTION
	56	11-P3-13	Riccardo Rurali, Giampiero Amato, Alessandro Cultrera, Luca Boarino, Carlo Lamberti, Silvia Bordiga, Francesco Mercuri, Álvaro Miranda, Xavier Cartoixà MOLECULAR DOPING AND SENSING IN SILICON NANOWIRES
	111	11-P3-14	Luca de Stefano HYDROPHOBIN-GLUCOSE INTERACTION MONITORED BY POROUS SILICON OPTICAL MULTI-LAYERS
	113	11-P3-15	Luca de Stefano POROUS SILICON AMINOSILANED FUNCTIONAL SUPPORT FOR SOLID PHASE SYNTHESIS AND OPTICAL DETECTION OF OLIGONUCLEOTIDES
	128	11-P3-16	Ruth Fabiola Balderas Valadez, Vivechana Agarwal, Claudia Pacholski OPTICAL CHARACTERIZATION OF POROUS SILICON MONOLAYERS DECORATED WITH HYDROGEL MICROSPHERES
	135	11-P3-17	Lluís F. Marsal ENGINEERING OPTICAL PROPERTIES OF GOLD-COATED NANOPOROUS ANODIC ALUMINA FOR FURTHER SENSING EXPERIMENTS
	155	11-P3-18	Fransiska Sri Herwahyu Krismastuti, Stephanie Pace, Nicolas Voelcker POROUS SILICON RESONANT MICROCAVITY BIOSENSOR FOR SENSITIVE DETECTION OF MATRIX METALLOPROTEINASE
	163	11-P3-19	Stephanie Pace, Roshan Vasani, Wei Zhao, Sébastien Perrier, Nicolas Voelcker PHOTONIC POROUS SILICON AS A PH SENSOR

	190	11-P3-20	Lizeth Martínez Ayala, Yoguesh Kumar, Vivechana Agarwal OPTICAL AND MORPHOLOGICAL PROPERTIES OF ZINC OXIDE LABYRINTH PATTERNS FORMED OVER MESOPOROUS/MACROPOROUS SILICON
	197	11-P3-21	Giorgi Shtenberg, Naama Massad-Ivanir, Ljiljana Fruk, Ester Segal EFFECT OF THERMAL OXIDATION ON THE PERFORMANCE OF NANOSTRUCTURED POROUS SI OPTICAL BIOSENSORS
	206	11-P3-22	Jaime García-Rupérez POWER-BASED PHOTONIC BANDGAP SENSOR WITH THE POSSIBILITY OF FULL INTEGRATION OF POROUS SILICON EMITTERS AND DETECTORS
	170	11-P3-23	Michela Sainato, Lucanos M Strambini, Giuseppe Barillaro COMPOSITE SILICON/METAL NANOSTRUCTURES BY METAL-ASSISTED ETCHING FOR CHEMI-TRANSISTOR SENSORS
	221	11-P3-24	Liliana Carolina Lasave, Raul Urteaga, Verónica González, Roberto Román Koropecski, Roberto D. Arce POROUS SILICON SENSOR FOR THE DETECTION OF CHAGAS DISEASE
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