

SESSION TIME 08:30-10:00

Plenary Session IV

Room: Viktoriahallen

Time	Title	Abs No
08:30	Imaging electrons in nanoscale devices <i>Westervelt, Robert M</i> <i>Harvard University, Boston, United States</i>	PLE04-IS1
09:15	Detecting nuclear spins by magnetic resonance force microscopy <i>Rugar, Daniel</i> <i>IBM Almaden Research Center, San José, United States</i>	PLE04-IS2

LOW03 - Low Temperature Scanning Probe Microscopy III

Room: Viktoriahallen

Emerging Hot Topic - Nanowires

Room: K1

Time	Title	Abs No	Time	Title	Abs No
10:30	Scanning Gate Microscopy - How local does it get? <i>Gildemeister, Arnd; Ihn, Thomas; Sigrist, Martin; Ensslin, Klaus</i> ETH Zurich, Zurich, Switzerland	LOW03-IS1	10:30	In-situ investigations on the growth of nanowires <i>Frances M. Ross</i> IBM, Yorktown Heights, New York, United States	
11:00	Quantum geometry and phase extraction in isospectral electronic nanostructures <i>Manoharan, Hari</i> Stanford University, Department of Physics, Stanford, United States	LOW03-IS2	11:00	Growth of III-V nanowires on Si <i>Magnus Borgström</i> Philips, Eindhoven, Germany	
11:30	Imaging a one-electron double quantum dot in an InAs/InP nanowire <i>Trodahl, Halvar¹; Boyd, Erin¹; Bleszynski, Ania¹; Froberg, Linus²; Samuelson, Lars²; Westervelt, R. M.³</i> ¹ Harvard University, Physics Department, Cambridge, MA, United States; ² Lund University, Department of Solid State Physics, Lund, Sweden; ³ Harvard University, Physics Department & SEAS, Cambridge, MA, United States	LOW03-Or1	11:30	III-V semiconductor nanowires and nanotubes grown by selective area metalorganic vapor phase epitaxy <i>Junichi Motohisa</i> Hokkaido University, Sapporo, Japan	
11:45	Wavefunction mapping of semiconductor nanocrystals <i>Maruccio, Giuseppe¹; Christian, Meyer¹; Tomohiro, Matsui¹; Roland, Wiesendanger¹; Dimitri, Talapin²; Stephen, Hickey²; Horst, Weller²</i> ¹ University of Hamburg, Jungiusstrasse, Institute of Applied Physics, Hamburg, Germany; ² University of Hamburg, Institute of Physical Chemistry, Hamburg, Germany	LOW03-Or2	12:00	Group-IV nanowire transistor structures <i>Mikael T. Björk</i> IBM, Zürich, Switzerland	

ASS08 - Surface Modification II

Room: K2

PST/F06 - Plasma Science & Technology V

Room: K11

Time	Title	Abs No	Time	Title	Abs No
10:30	Characterization of Organic Films Prepared by Vacuum Based Techniques <i>Biederman, Hynek¹; Choukourov, Andrei¹; Hanus, Jan²; Kousal, Jaroslav²; Drabik, Martin²; Slavinska, Danka²</i> ¹ Charles University, Macromolecular Physics, Prague, Czech Republic; ² Charles University MFF, Macromolecular Physics, 180 00 Praha 8, Czech Republic	ASS08-IS1	10:30	EUV Optics <i>Feigl, Torsten; Yulin, Sergiy; Benoit, Nicolas; Perske, Marco; Taracheva, Elena; Kaiser, Norbert</i> Fraunhofer Ins. Angewandte Optik und Feinmechanik, Jena, Germany	PSTF06-IS1
11:00	AFM mapping of conducting polymers in anticorrosion coatings <i>Pan, Jinshan¹; Adhikari, Arindam²; Leygraf, Christofer²; Claesson, Per²</i> ¹ Royal Institute of Technology, Stockholm, Sverige; ² Royal Institute of Technology, Stockholm, Sweden	ASS08-Or1	11:00	Diagnostics in low-temperature plasmas by laser spectroscopy: Expensive and difficult but worth all the trouble. <i>Czarnetzki, Uwe</i> Institute for Plasma and Atomic Physics, Ruhr-Universität Bochum, Bochum, Germany	PSTF06-IS2
11:15	Ion beam induced magnetic structures in ultrathin Fe films <i>Rupp, Werner¹; Biedermann, Albert²; Schmid, Michael¹; Varga, Peter¹</i> ¹ Vienna University of Technology, Institute für Allgemeine Physik, Vienna, Austria; ² Vienna University, Institut für Materialphysik, Vienna, Austria	ASS08-Or2			
11:30	Automated local probe oxidation of n-octadecyltrichlorosilane monolayers: nanometer resolution on the millimeter scale <i>Wouters, Daan; Schubert, U. S.</i> Technische Universiteit Eindhoven, Macromolecular Chemistry and Nanoscience, Eindhoven, Netherlands	ASS08-Or3	11:30	EUV source and collector optics plasma research for next generation lithography <i>Ruzic, David; Thompson, Keith; Shin, Hyungjoo; Castano, Carlos Henry; Srivastava, Shailendra; Neumann, Martin; Qiu, Huatan</i> University of Illinois, Urbana, United States	PSTF06-Or1
11:45	Constructing one dimensional molecular nanowire using zwitterionic-like property of Ge(100) dimer <i>Jung, Soon Jung¹; Youn, Young-Sang¹; Kim, Seun¹; Kim, Ki-Jeong²; Kim, Bong Soo²; Lee, Hangil²</i> ¹ KAIST, Chemistry, Daejeon, Republic of Korea; ² Pohang Accelerator Laboratory (PAL), Chemistry, Pohang, Republic of Korea	ASS08-Or4	11:45	Experimental research of interaction of hypersonic radiative dense plasma flows with spatially restricted solid state targets in gases <i>Protasov, Yuri S.; Tschepanuk, Tadeush S.</i> Bauman Moscow State Technical University, Power Engineering, Moscow, Russian Federation	PSTF06-Or2
12:00	Cool plasma functionalization of nanodiamond films and particles <i>McGuire, G¹; Ray, Mark¹; Davidson, J²; Kang, W²; Tyler, T¹; Cunningham, G¹; Shenderova, O¹</i> ¹ International Technology Center, Raleigh, United States; ² Vanderbilt University, Nashville, United States	ASS08-Or5			

VST06 - Special Vacuum Issues

Room: K12

VST07 - Vacuum Gas Dynamics I

Room: K13

Time	Title	Abs No	Time	Title	Abs No
10:30	<p>The vacuum and surface physics of high average current photoemission electron sources <i>Hernandez-Garcia, Carlos¹; Stutzman, Marcy L.²</i> ¹Jefferson Lab, FEL, Newport News, United States; ²Jefferson Lab, Polarized Source, Newport News, United States</p>	VST06-IS1	10:30	<p>Modeling and calculations of rarefied gas flows: DSMC vs kinetic equation <i>Sharipov, Felix</i> Universidade Federal do Parana, Departamento de Fisica, Curitiba, Brazil</p>	VST07-IS1
11:00	<p>DC photogun vacuum characterization through photocathode lifetime studies <i>Stutzman, Marcy L.; Adderley, Philip; Grames, Joseph; Poelker, Matthew; Surlis-Law, Ken</i> Thomas Jefferson National Accelerator Facility, Polarized Source Group, Newport News, Virginia, United States</p>	VST06-Or1	11:00	<p>Modeling of vacuum systems: Discrete and continuum physical-mathematical approaches <i>Degasperi, Francisco Tadeu¹; Baranauskas, Vitor²</i> ¹Faculdade de Tecnologia de São Paulo - CEETEPS, MPCE, São Paulo - SP, Brazil; ²Faculdade de Engenharia Elétrica e de Computação, DSIF - UNICAMP, Campinas -SP, Brazil</p>	VST07-Or1
11:15	<p>Integration of an electrostatic glass motor into the UHV chamber of a caesium atomic clock <i>Sache, Laurent¹; Fuzesi, Ferenc²; Moser, Roland³; Thomann, Pierre²; Bleuler, Hannes¹</i> ¹EPFL, LSRO1, Lausanne, Switzerland; ²UNINE, Observatoire de Neuchâtel, Neuchâtel, Switzerland; ³Alstom, Baden, Switzerland</p>	VST06-Or2	11:15	<p>Modelling the transitional flow regime with DSMC <i>Roos, Marcel; Versluis, Richard</i> TNO, Science and Industry, Delft, Netherlands</p>	VST07-Or2
11:30	<p>Production process of alumina-ceramic vacuum chambers for J-PARC <i>Saito, Yoshio¹; Kinsho, Michikazu²; Kabeya, Zensaburo³</i> ¹KEK-High Energy Accelerator Research Organization, Accelerator Division, Tsukuba, Ibaraki, Japan; ²JAEA-Japan Atomic Energy Agency, Accelerator, Tokai, Ibaraki, Japan; ³Mitsubishi Heavy Industries, Ltd., Accelerator, Nagoya, Aichi, Japan</p>	VST06-Or3	11:30	<p>Computational and experimental investigation of flows in long channels of various cross sections under low, medium and high vacuum conditions <i>Varoutis, Stelios¹; Valougeorgis, Dimitris¹; Day, Christian²</i> ¹University of Thessaly, Mechanical and Industrial Engineering, Volos, Greece; ²Forschungszentrum Karlsruhe, Institute of Technical Physics, Karlsruhe, Germany</p>	VST07-Or3
11:45	<p>Hydro-formed Ti bellows with the same flexibility as the welded ones <i>Matsue, Masaki¹; Arakawa, Satoru²; Tanaka, Toshihiro²; Sawa, Soji¹; Ogiwara, Norio³; Suganuma, Kazuaki³</i> ¹Osaka Rasenkan Kogyo Company Limited Osaka Plant, Osaka, Japan; ²Osaka Rasenkan Kogyo Company Limited Fukuroi Plant, Fukuroi, Japan; ³Japan Atomic Energy Agency, Tokai-mura, Japan</p>	VST06-Or4	11:45	<p>An analysis on the velocity distributions of hydrogen molecules in a space surrounded with walls of different temperatures <i>Okano, Tatsuo; Niki, Kaori; Ito, Takahiro; Fukutani, Katsuyuki</i> The University of Tokyo, Institute of Industrial Science, Tokyo, Japan</p>	VST07-Or4

EDU01 - Education in Nano and Vacuum Based Science I

Room: K14

SS16 - New Methods

Room: K16/17

Time	Title	Abs. No	Time	Title	Abs No
10:30	Introduction <i>Deppert, Knut</i> Lund University, Department of Solid State Physics, Lund, Sweden	EDU01-IS01	10:30	Vacuum electro spray deposition of non-volatile molecules and nanostructures <i>O'Shea, James¹; Satterley, Chris¹; Taylor, Ben¹; Mayor, Louise¹; Magnano, Graziano¹; Rienzo, Anna¹; Schnadt, Joachim²</i> ¹ University of Nottingham, School of Physics & Astronomy, Nottingham, United Kingdom; ² Lund University, Department of Synchrotron Radiation, Lund, Sweden	SS16-Or1
10:45	Educating the next generation of scientists and engineers: Nanotechnology in the K-16 science curriculum <i>Sweeney, Aldrin</i> University of Central Florida, Science Education, Orlando, United States	EDU01-IS02	10:45	Low-energy spin-polarized two-electron spectroscopy: a powerful tool for studying exchange correlation and spin-orbit interaction on surfaces <i>Samarin, Sergey¹; Artamonov, Oleg²; Sergeant, Antony¹; Kirschner, Jurgen³; Williams, James¹</i> ¹ The University of Western Australia, Physics, Crawley, Perth, Australia; ² St. Petersburg University, Research Institute of Physics, St. Petersburg, Russian Federation; ³ Max-Planck-Institut für Mikrostrukturphysik, Halle, Germany	SS16-Or3
			11:00	X-ray photoelectron spectroscopy for impedance measurements <i>Suzer, Sefik</i> Bilkent University, Chemistry Department, Ankara, Turkey	SS16-Or4
11:15	Nano-education from a European perspective <i>Malsch, Ineke</i> Malsch TechnoValuation, Utrecht, Netherlands	EDU01-IS03	11:15	New high brightness thermal field electron sources on the basis nanoheterostructures for high current electron probe device applications <i>Ptitsin, Valery</i> Institute for Analytical Instrumentation RAS, St. Petersburg, Russian Federation	SS16-Or5
			11:30	Accurate & fast calculation of low energy electron diffraction spectra with full crystal potential <i>Wu, Huasheng¹; Wang, Jing¹; So, Ricky¹; Tong, David²</i> ¹ University of Hong Kong, Physics Department, Hong Kong, China; ² City University, Physics Department, Hong Kong, China	SS16-Or6
11:45	Nano education at Indian Institutes of Technology <i>Mehta, B.R.</i> Indian Institute of Technology Delhi, Department of Physics, New Delhi, India	EDU01-Or01	11:45	Electronic properties of PbTe/CdTe(100) interfaces <i>Leitsmann, Roman; Bechstedt, Friedhelm</i> Institut für Festkörpertheorie und -optik, Friedrich-Schiller-Universität Jena, Jena, Germany	SS16-Or7
12:00	Survey of Skills and training of EU Nanotechnology workforce – Needs and requirements of graduates in industry <i>Singh, Kshitij Aditeya</i> Institute of Nanotechnology, Nanotechnology Masters Recognition Scheme Manager, Glasgow, United Kingdom	EDU01-Or02	12:00	<i>Abstract withdrawn</i>	SS16-Or2

TF/SE09: Fundamentals in Thin Film Growth (Nucleation...) II

Room: K21

PST/F07 - Fusion I

Room: K22

Time	Title	Abs No	Time	Title	Abs No
10:30	Modelling thin film growth of transition metal nitrides <i>Mahieu, Stijn; Depla, Diederik; Van Aeken, Koen; De Gryse, Roger</i> Ghent University, Solid State Sciences, Ghent, Belgium	TFSE09-IS1	10:30	An ITER-like wall for JET <i>Matthews, Guy¹; Edwards, P¹; Loving, A¹; Philipps, V²; Riccardo, V¹; Rubel, M³; Villedieu, E⁴</i> ¹ Euratom/UKAEA Fusion Association, Culham Science Centre, Abingdon, United Kingdom; ² Forschungszentrum Jülich, Euratom Association, Jülich, Germany; ³ Alfvén Laboratory, Royal Inst. Technology (KTH), Assoc. EURATOM-VR, Stockholm, Sweden; ⁴ Association Euratom-CEA, Cadarache, DSM/DRFC, Saint Paul Les Durance, France	PSTF07-IS1
11:00	Growth and characterization of TiN/SiNx multilayer thin films <i>Flink, A.¹; Söderberg, H.²; Birch, J.¹; Beckers, M.¹; Persson, P. O. Å.¹; Oden, M.²; Hultman, L.¹</i> ¹ Linköping University, Linköping, Sweden; ² Luleå University of Technology, Luleå, Sweden	TFSE09-Or1	11:00	Laboratory experiments for plasma wall interactions <i>Doerner, Russell</i> University of California, San Diego, United States	PSTF07-IS2
11:15	Growth of α-/κ-aluminium oxides on titanium carbide/nitride substrates: influence of interface structure and nucleation <i>Rohrer, Jochen¹; Vojvodic, Aleksandra²; Ruberto, Carlo²; Hylgaard, Per¹</i> ¹ Chalmers University of Technology, Microtechnology and Nanoscience, MC2, Göteborg, Sweden; ² Chalmers University of Technology, Applied Physics, Göteborg, Sweden	TFSE09-Or2			
11:30	Influence of texture on the growth of ternary silicide thin films <i>Smeets, Dries¹; Detavernier, Christophe²; De Keyser, Koen²; Comrie, Craig M.³; Theron, Chris C.⁴; Vantomme, Andre¹</i> ¹ Instituut voor Kern- en Stralingsfysica and INPAC, Natuurkunde en Sterrenkunde - KULeuven, Leuven, Belgium; ² Vakgroep Vastestofwetenschappen, Universiteit Gent, Gent, Belgium; ³ Department of Physics, University of Cape Town, Rondebosch, South Africa; ⁴ Materials research group, iThemba LABS, Sommerset West, South Africa	TFSE09-Or3	11:30	Multiscale modelling of hydrogen and helium cluster formation in tungsten <i>Henriksson, Krister¹; Nordlund, Ka²</i> ¹ KTH, Stockholm, Sweden; ² University of Helsinki, Accelerator Laboratory, Helsinki, Finland	PSTF07-Or1
11:45	Growth of ta-C and a-C:N thin films using a bi-modal sputter deposition with Xe and N ions <i>Rybachuk, Maksym; Bell, John Marcus</i> Queensland University of Technology, Faculty of Built Environment and Engineering, Brisbane, Australia	TFSE09-Or4	11:45	Thermal desorption of deuterium from graphite after ion implantation, plasma impact, and exposure in gas <i>Pisarev, Alexander¹; Trifonov, Nikolai¹; Gasparyan, Yuri¹; Rusinov, Alexander¹; Stepanov, Stanislav¹; Emmoth, Birger²</i> ¹ Moscow Engineering and Physics Institute, Moscow, Russian Federation; ² Royal Institute of Technology, Stockholm, Sweden	PSTF07-Or2

NS22 - Carbon Nanotubes II

Room: K23

NS23 - Molecules on Surfaces III

Room: K24

Time	Title	Abs No	Time	Title	Abs No
10:30	Studies of the catalytic growth of SWCNT <i>Tarras Wahlberg, Nils; Andersson, Mats; Rosén, Arne</i> Gothenburg University, Department of Physics, Gothenburg, Sweden	NS22-Or1	10:30	Electronic structure of Mn12 complexes grafted on Au(111) Surface <i>Fonin, Mikhail¹; Voss, Soenke¹; Burgert, Michael¹; Dedkov, Yury S.²; Groth, Ulrich¹; Ruediger, Ulrich¹</i> ¹ Universitaet Konstanz, Konstanz, Germany; ² Technische Universitaet Dresden, Dresden, Germany	NS23-Or1
10:45	Carbon nanotube formation from milled iron-phthalocyanine <i>Milev, Adrijan; Wilson, Michael; Tran, Nguyen; Kannangara, Kamali</i> UWS, Sydney, Australia	NS22-Or2	10:45	Electronic investigation of CuPc/CNT <i>Lozzi, Luca¹; Bussolotti, Fabio¹; Passacantando, Maurizio¹; La Rosa, Salvatore²; Santucci, Sandro¹</i> ¹ University of L'Aquila, Physics, L'Aquila, Italy; ² Sincrotrone Trieste, Trieste, Italy	NS23-Or2
11:00	Low-temperature growth of carbon nanotubes from size-controlled catalyst particles and their application to LSI interconnect <i>Sato, Shintaro¹; Kawabata, Akio¹; Nozue, Tatsuhiro²; Kondo, Daiyu¹; Mishima, Miho²; Murakami, Tomo²; Hyakushima, Takashi²; Nihei, Mizuhisa¹; Awano, Yuji¹</i> ¹ Fujitsu Labs, Fujitsu, MIRAI-Selete, Atsugi, Japan; ² MIRAI-Selete, Atsugi, Japan	NS22-Or3	11:00	Distance-dependent STS and charging of molecular orbitals - Nickel phthalocyanine on HOPG (0001) <i>Gopakumar, Thiruvancheri; Hietschold, Michael</i> Chemnitz University of Technology, Institute of Physics, Solid Surfaces Analysis Group, Chemnitz, Germany	NS23-Or3
11:15	New route to control nanoparticle morphologies and attachment to carbon nanotubes <i>Klinke, Christian; Juarez, Beatriz H.; Kornowski, Andreas; Weller, Horst</i> University of Hamburg, Institute of Physical Chemistry, Hamburg, Germany	NS22-Or4	11:15	Scanning tunneling spectroscopy of Ce@C82 and Ce2@C80 metallofullerenes <i>Strozecka, Anna¹; Muthukummar, Kaliappan²; Dybek, Aneta²; Myslivecek, Josef¹; Larsson, J. Andreas²; Dennis, John²; Voigtlaender, Bert¹</i> ¹ Research Centre Juelich, Institute of Bio- and Nanosystems, Juelich, Germany; ² Tyndall National Institute, Cork, Ireland; ³ Queen Mary, University of London, Department of Physics, London, United Kingdom	NS23-Or4
11:30	Gigas growth of carbon nanotubes from camphor: An environment-friendly approach <i>Kumar, Mukul; Okazaki, Naoto; Ando, Yoshinori</i> Meijo University, Dept. of Materials Science and Engineering, Nagoya, Japan	NS22-Or5	11:30	Adsorption of C60 on self-assembled phthalocyanine derivatives on metal surfaces <i>Samuely, Tomas¹; Stöhr, Meike¹; Jung, Thomas A.²; Haas, Marco²; Liu, Shi-Xia²; Decurtins, Silvio³</i> ¹ University of Basel, Institute of Physics, Basel, Switzerland; ² Paul Scherrer Institut, Villigen, Switzerland; ³ University of Bern, Bern, Switzerland	NS23-Or5
11:45	Long-ranged bandgap modulation of swcnt on ag(100) <i>Shin, Hyung-Joon; Clair, Sylvain; Kim, Yousoo; Kawai, Maki</i> RIKEN, Surface Chemistry Laboratory, Wako, Japan	NS22-Or6	11:45	Ab initio study of effect of metallic electrode contact on quantum transport in carbon nanotubes <i>Kobayashi, Nobuhiko¹; Ozaki, Taisuke²; Hirose, Kenji²</i> ¹ University of Tsukuba, Institute of Applied Physics, Tsukuba, Ibaraki, Japan; ² AIST, Research Institute for Computational Sciences, Tsukuba, Ibaraki, Japan; ³ NEC Corporation, Fundamental and Environmental Research Laboratory, Tsukuba, Ibaraki, Japan	NS23-Or6
			12:00	Porphyrim chemistry in two dimensions: In-situ metalation and axial coordination <i>Gottfried, J. Michael; Flechtner, Ken; Bai, Yun; Steinrück, Hans-Peter</i> Universitaet Erlangen, Physikalische Chemie II, Erlangen, Germany	NS23-Or7

SS17 - Oxide Surface II

Room: A2

SS18 - Electronic Structure, Semiconductors IV

Room: A3

Time	Title	Abs No	Time	Title	Abs No
10:30	Surface investigations of metal oxides <i>Diebold, Ulrike</i> Tulane University, Department of Physics, New Orleans, United States	SS17-IS1	10:30	Real-space Observation of Screened Potential and the Friedel oscillation by Scanning Tunneling Spectroscopy <i>Hasegawa, Yukio</i> The University of Tokyo, The Institute for Solid State Physics, Kashiwa, Japan	SS18-IS1
11:00	Oxidation of a reduced rutile TiO₂(110) surface: a comprehensive spectroscopic study <i>Huang, Weixin; Jiang, Zhiquan</i> University of Science and Technology of China, Hefei, China	SS17-Or1	11:00	Atomic structure of the fluctuating ($\sqrt{3}\times\sqrt{3}$)R30° phase of the Sn/Ge(111) system. <i>Ascolani, Hugo¹; Avila, Jose²; Le Lay, G.³; Asensio, M.C.²</i> ¹ CONICET and Centro Atómico Bariloche (CNEA), San Carlos de Bariloche, Argentina; ² Synchrotron Soleil, Gif sur Yvette, France; ³ CRMCN-CNRS, Campus de Luminy, Marseille, France	SS18-Or1
11:15	Enhanced dispersion and stability of gold nanoparticles on TiO₂(110) in the presence of molybdenum <i>Berkó, András; Deák, László; Óvári, László; Kiss, Anna Mária; Majzik, Zsolt; Kiss, János</i> University of Szeged, Reaction Kinetics Research Group of CRC-HAS, Szeged, Hungary	SS17-Or2	11:15	Triangular Mott-Hubbard insulator phases of Sn/Si(111) and Sn/Ge(111) surfaces <i>Tosatti, Erio</i> SISSA and ICTP, Trieste, Italy	SS18-Or2
11:30	Electronic structure of titanium dioxide surfaces and its interactions with gold nano clusters <i>Minato, Taketoshi¹; Zhao, Jin²; Sainoo, Yasuyuki³; Kim, Yousoo⁴; Kato, S. Hiroyuki⁵; Susaki, Tomofumi⁶; Shiraki, Susumu⁴; Aika, Ken-ichi⁶; Yang, Jinlong⁶; Petek, Hrvoje²; Kawai, Makih¹</i> ¹ RIKEN, Wako, Japan; ² University of Pittsburgh, Pittsburgh, United States; ³ Tohoku University, Sendai, Japan; ⁴ University of Tokyo, Kashiwa, Japan; ⁵ Tokyo Institute of Technology, Yokohama, Japan; ⁶ University of Science and Technology of China, Hefei, China	SS17-Or3	11:30	STM and Photoemission characterization of Pb,Sn/Si(111)-7x7 surface: STS and chemical states <i>Svec, Martin¹; Di Teodoro, Carla²; Shukrinau, Pavel¹; Vondracek, Martin¹; Dudr, Viktor¹; Sutara, Frantisek²; Matolin, Vladimir²; Prince, Kevin C.⁴; Chab, Vladimir¹</i> ¹ Institute of Physics, Academy of Sciences of CR, Department of Thin Films, Praha, Czech Republic; ² Università de l'Aquila via Vetoio (Coppito 1), Dipartimento di Fisica, L'Aquila, Italy; ³ Charles University, F. of Mathematics and Physics, Department of Electronics and Vacuum Physics, Praha, Czech Republic; ⁴ Sincrotrone Trieste S.C.p.A., SS14 - km 163.5, Trieste, Italy	SS18-Or3
11:45	Quasi-metallic 1D structures on the TiO₂(110)-(1x2) <i>Blanco-Rey, Maria¹; Abad, Jose²; Sanchez-Sanchez, Carlos¹; Rogero, Celia³; Mendez, Javier¹; Lopez, M.Francisca¹; Martin-Gago, Jose A.¹; de Andres, Pedro¹</i> ¹ Instituto Ciencia de Materiales de Madrid-Csic, Madrid, Spain; ² Universidad de Murcia, Murcia, Spain; ³ Centro de Astrobiología, Madrid, Spain	SS17-Or4	11:45	Atomic origin of the Sn 4d core level line-shape in Sn/Ge(111)-(3 x 3). <i>Tejeda, Antonio¹; Cortés, Rocio²; Lobo, Jorge³; Didiot, Clement⁴; Kierren, Bertrand⁴; Malterre, Daniel⁶; Garcia Michel, Enrique⁵; Mascaraque, Arantzazu²</i> ¹ Université Paris Diderot, Matériaux et Phénomènes Quantiques, Umr Cnrs, Paris, France; ² Universidad Complutense, Dpto. Fisica de Materiales, Madrid, Spain; ³ University of Zurich and Swiss Light Source, Physik-Institut, Zurich, Switzerland; ⁴ Université Henri Poincaré, Laboratoire de Physique des Matériaux, Nancy, France; ⁵ Universidad Autonoma, Dpto. Fisica de la Materia Condensada, Madrid, Spain	SS18-Or4
12:00	Thermal smoothing of monoatomic step edges of a α(1-102) vicinal surface of sapphire <i>Nguyen, Thi Thu Thuy; Bonamy, Daniel; Pham Van, Laurent; Cousty, Jacques; Barbier, Luc</i> cea Saclay, Dsm/Drecam/Spcsi, Gif Sur Yvette, France	SS17-Or5	12:00	Direct measurement of reconstructed surface stress in Si(111)-7x7 and Ge(111)-5x5 <i>Asaoka, Hidehito; Yamazaki, Tatsuya; Shamoto, Shin-ichi</i> Japan Atomic Energy Agency, Tokai, Ibaraki 319-1195, Japan	SS18-Or5

NS24 - Nanobiosensors

Room: A4

EMP09 - Narrow Band Semiconductors

Room: A5

Time	Title	Abs No	Time	Title	Abs No
10:30	Polymer-metal nanocomposites with 2-Dimensional Au nanoparticle arrays for sensoric applications <i>Hanisch, Christian; Kulkarni, Amit; Zaporozhchenko, Vladimir; Faupel, Franz</i> <i>University of Kiel, Kiel, Germany</i>	NS24-Or1	10:30	III-V compound semiconductor nanowires and terahertz emission <i>Jagadish, Chennupati</i> <i>The Australian National University, Electronic Materials Engineering, Canberra, Australia</i>	EMP09-IS1
10:45	Sensitivity of silicon nanowires in biosensor applications <i>Elfstrom, Niklas¹; Engfeldt, Torun²; Linnros, Jan¹</i> <i>¹Laboratory of Materials and Semiconductor Physics, Solid State Electronics, Stockholm, Sverige; ²School of Biotechnology, Stockholm, Sverige</i>	NS24-Or2			
11:00	Characterization of nano-interdigitated electrodes <i>Skjolding, Lars Henrik D.¹; Spigel, Christer²; Emneus, Jenny²; Montelius, Lars¹</i> <i>¹Lund University, Division of Solid State Physics, Lund, Sverige; ²Lund University, Division of Analytical Chemistry, Lund, Sverige; ³Technical University of Denmark, MIC – Department of Micro and Nanotechnology, Lyngby, Danmark</i>	NS24-Or3	11:00	Observation of quantized electron accumulation states at the surface of indium nitride <i>Smith, Kevin E.¹; Colakerol, Leyla¹; Jeong, H.K.¹; Lukasz, Plucinski¹; Alex, DeMasi¹; Timothy, Learmonth¹; Per-Anders, Glans¹; Yufeng, Zhang¹; Chen, T.C.²; Moustakas, T.D.²; Alexei, Fedorov³; Piper, Louis¹; Veal, Tim⁴; McConville, Chris⁴</i> <i>¹Boston University, Department of Physics, Boston, MA, United States; ²Boston University, ECE Department, Boston, MA, United States; ³Advanced Light Source, LBNL, Berkeley, United States; ⁴University of Warwick, Department of Physics, Coventry, United Kingdom</i>	EMP09-IS2
11:15	Stress sensors functionalised with self-assembled monolayers: the nature of stress <i>Sushko, Maria; Shluger, Alexander</i> <i>University College London, London, United Kingdom</i>	NS24-Or4			
11:30	Ultrasensitive carbon monoxide detection using single-walled carbon nanotube network <i>Wongwiriyanon, Winadda¹; Yoshihara, Kumiko¹; Ohmori, Takafumi¹; Inoue, Satoshi¹; Ito, Tatsuya²; Shimazaki, Ryotaro²; Maekawa, Toru²; Suzuki, Kengo²; Ishikawa, Hiroshi²; Oura, Kenjiro³; Honda, Shin-ichi¹; Katayama, Mitsuhiro¹</i> <i>¹Osaka University, Electrical, Electronic and Information Engineering, Osaka, Japan; ²New Cosmos Electric Co., Ltd., Osaka, Japan; ³Osaka University, Res. Center for UHVEM, Osaka, Japan</i>	NS24-Or5	11:30	Ge influence on the acceptor level(s) of the E center in SiGe <i>Slotte, Jonatan; Kuitunen, Katja; Tuomisto, Filip</i> <i>Laboratory of Physics, Helsinki University of Technology, HUT, Finland</i>	EMP09-Or1
11:45	AFM used to detect cancerous cells (Lectin⁺ oligosaccharide interaction) <i>Lekka, Malgorzata¹; Kulik, Andrzej²; Laidler, Piotr³; Forro, Laszlo²</i> <i>¹Polish Academy of Sciences, Institute of Nuclear Physics, Krakow, Poland; ²Ecole Polytechnique Federale de Lausanne, Institute of Physics of Complex Matter, Lausanne, Switzerland; ³Jagiellonian University, Medical Biochemistry, Krakow, Poland</i>	NS24-Or6	11:45	Photoconductivity of nanocrystalline PbTe(In) films in alternating electric field <i>Komissarova, Tatiana¹; Akimov, Boris¹; Dashevski, Zinoviy²; Kasiyan, Vladimir²; Khokhlov, Dmitry¹; Ryabova, Ludmila³</i> <i>¹Moscow State University, Physics Department, Moscow, Russian Federation; ²Ben-Gurion University of the Negev, Department of Materials Engineering, Beer-Sheva, Israel; ³Moscow State University, Chemistry Department, Moscow, Russian Federation</i>	EMP09-Or2
12:00	Room temperature Coulomb staircase in a single Si nanochain <i>Rafiq, Muhammad Aftab¹; Mizuta, Hiroshi²; Colli, Alan³; Servati, Peyman³; Ferrari, Andrea³; Milne, W3; Durrani, Zahid⁴</i> <i>¹PIEAS, Chemical and Materials Engineering, Islamabad, Pakistan; ²Tokyo Institute of Technology, Physical Electronics, Tokyo, Japan; ³University of Cambridge, Electrical Engineering, Cambridge, United Kingdom; ⁴Imperial College, Electrical Engineering, London, United Kingdom</i>	NS24-Or7	12:00	The phase diagrams of self-assembled PbSeTe quantum dot growth: tensile versus compressive strain <i>Springholz, Gunther; Lugovyy, Dmytro</i> <i>University of Linz, Linz, Austria</i>	EMP09-Or3

LOW04 - Low Temperature Scanning Probe Microscopy IV

Room: Viktoriahallen

NS25 - Spintronics

Room: K1

Time	Title	Abs No	Time	Title	Abs No
13:30	AFM/STM with sub-Angstrom modulation. <i>Temes, Markus¹; Lutz, Chris¹; Hirjibehedin, Cyrus¹; Giessibl, Franz²; Heinrich, Andreas¹</i> ¹ IBM Almaden Research Center, San Jose, United States; ² University of Regensburg, Regensburg, Germany	LOW04-IS1	13:30	Exchange bias in nanostructures: at the heart of spintronic devices <i>Nogues, Josep¹; Sort, Jordi²; Langlais, Veronique³; Skumryev, Vassil²; Suriñach, Santiago³; Baro, Maria Dolores³</i> ¹ ICREA and Institut Catala de Nanotecnologia, 08193 Bellaterra, Spain; ² ICREA and Univeristat Autonoma de Barcelona, Departament de Fisica, 08193 Bellaterra, Spain; ³ Universitat Autonoma de Barcelona, Departament de Fisica, 08193 Bellaterra, Spain	NS25-IS1
14:00	Millikelvin photon-induced cavity cooling of cantilevers at cryogenic base temperatures <i>Thai, Quang¹; Dianoux, Raphaëlle¹; Baratoiff, Alexis²; Hug, Hans J.¹</i> ¹ Empa, Nanoscale Materials Science, Duebendorf, Switzerland; ² University of Basel, Institute of Physics, Basel, Switzerland	LOW04-Or1	14:00	Spin injection characteristics of conducting polymer nanofibers in high magnetic and electric fields <i>Lee, H. J.¹; Kaiser, A. B.²; Jhang, S. H.¹; Lee, S. H.¹; Choi, A. J.¹; Yoo, J. S.¹; Kim, H. S.¹; Aleshin, A. N.³; Goh, M. J.⁴; Akagi, K.⁴; Kaner, R. B.⁵; Brooks, J. S.⁶; Park, Y.W.¹</i> ¹ Seoul National University, Physics and Astronomy, Seoul, Republic of Korea; ² Victoria University of Wellington, Physics, Wellington, New Zealand; ³ A. F. Ioffe Physical-Technical Institute, St. Petersburg, Russian Federation; ⁴ Kyoto University, Polymer Chemistry, Kyoto, Japan; ⁵ University of California at Los Angeles, Chemistry and Biochemistry, Los Angeles, United States; ⁶ Florida State University, National High Magnetic Field Laboratory, Tallahassee, United States	NS25-IS2
14:15	Summary <i>Egler, Don</i> IBM Almaden Research Center, San Jose, United States	LOW04-IS2			
			14:30	Spin-dependent transport in double quantum dots realized in InAs nanowires <i>Shorubalko, Ivan; Pfund, Andreas; Ensslin, Klaus; Leturcq, Renaud</i> Solid State Physics Laboratory, ETH Zurich, Zurich, Switzerland	NS25-Or1
			14:45	Symmetry constrained electron and hole quantum spin transport <i>Brusheim, Patrik; Xu, H. Q.</i> Division of Solid State Physics, Lund University, Lund, Sweden	NS25-Or2
			15:00	Field and current induced magnetisation reversal in spin valve elements studied by STM based point contacts <i>Saxegaard, Magne¹; Wahlström, Erik¹; Brucas, Rimantas²; Hanson, Maj³</i> ¹ Institutt for fysikk, NTNU, Trondheim, Norge; ² Teknisk Fysik, CTH, Göteborg, Sweden; ³ Teknisk Fysik, CTH, Göteborg, Norge	NS25-Or3

ASS09 - Complex Surfaces and Charact. of Nanomaterials

Room: K2

VST08 - Vacuum Gas Dynamics II

Room: K11

Time	Title	Abs No	Time	Title	Abs No
13:30	Complex surfaces using synchrotron radiation limits of submicrometer materials analysis <i>Kiskinova, Maya</i> <i>Sincrotrone Trieste, Trieste, Italy</i>	ASS09-IS1	13:30	Flow Phenomena of Spacecraft in the Re-Entry Phase <i>Koppenwallner, Georg</i> <i>Hypersonic technology Goettingen, HTG, 37191</i> <i>Katlenburg Lindau, Germany</i>	VST08-IS1
14:00	Surface alloys of s-p metals and transition metals <i>Pancotti, Alexandre¹; Carazzole, Marcelo¹; Rodrigues, Gustavo¹; De Siervo, Abner²; Landers, Richard¹; Kleiman, George¹</i> <i>¹Instituto de Fisica 'Gleb Wataghin', Departamento de Fisica Aplicada, Campinas, Brazil; ²LNLS, Campinas, Brazil</i>	ASS09-Or1	14:00	Numerical analysis of ALADIN Optics contamination due to material outgassing <i>Markelov, Gennady¹; Endemann, Martin²; Wernham, Denny²</i> <i>¹AOES Group BV, Leiden, Netherlands; ²ESA/ESTEC, Noordwijk, Netherlands</i>	VST08-Or1
14:15	Investigation of degradation mechanism of organic light-emitting device by scanning photoelectron microscopy using in-situ operation and peel off techniques <i>Shin, Hyun-Joon¹; Jung, Min-Cherl¹; Chung, Jae-Gwan²; Kim, Kihong²; Lee, Jae-Cheol²</i> <i>¹Pohang Accelerator Laboratory, Pohang, Republic of Korea; ²Samsung Advanced Institute of Technology, AE Center, Suwon, Republic of Korea</i>	ASS09-Or2	14:15	Computational fluid dynamic model of a tapered holweck vacuum pump operating in the viscous and transition regimes. II. rotor temperature modeling and experimental validation <i>Giors, Silvio¹; Subba, Fabio²; Zanino, Roberto²</i> <i>¹Varian S.p.A., Leini (Torino), Italy; ²Politecnico di Torino, Torino, Italy</i>	VST08-Or2
14:30	Relationship between optical dielectric constant and XPS relative chemical shift of 1s and 2p levels for dielectric compounds <i>Hirose, Kazuyuki¹; Suzuki, Haruhiko²; Nohira, Hiroshi²; Ikenaga, Eiji²; Kobayashi, Daisuke³; Hattori, Takeo⁵</i> <i>¹Institute of Space and Astronautical Science, Sagamihara, Japan; ²Musashi Institute of Technology, Setagaya, Japan; ³JASRI/SPring-8, Sayo, Japan; ⁴Institute of Space and Astronautical Science, JAXA, Sagamihara, Japan; ⁵Tohoku University, Sendai, Japan</i>	ASS09-Or3	14:30	On the compression in turbomolecular pumps and roots blowers <i>Voss, Gerhard</i> <i>Oerlikon Leybold Vacuum, Vacuum Academy, Cologne, Germany</i>	VST08-Or3
14:45	Nanospectroscopy of single silicon nanowire surface using energy filtered X-ray photoElectron emission microscopy <i>Bailly, Aude¹; Barrett, Nick²; Renault, Olivier¹; Zagonel, Luiz Fernando²; Gentile, Pascal²; Pauc, Nicolas³; Baron, Thierry⁴; Dhalluin, Florian¹; Cezar, Julio Criginski²; Brookes, Nicholas⁵</i> <i>¹CEA LETI Minatoc, DPTS/SCPIO/LCPO, Grenoble, France; ²CEA Saclay, DSM/DRECAM/SPCSI, Gif sur Yvette, France; ³CEA Grenoble, DRFMC/SiNaPS, Grenoble, France; ⁴CEA Grenoble, CNRS/LTM, Grenoble, France; ⁵ESRF, Grenoble, France</i>	ASS09-Or4	14:45	Mass flow rates and accommodation coefficients measurements from hydrodynamic to near free molecular regime <i>Ewart, Tmotee; Perrier, Pierre; Meolans, J.Gilbert; Graur, Irina</i> <i>Provence University, Marseille, France</i>	VST08-Or4
15:00	Assembly of cobalt phthalocyanine stacks inside carbon nanotubes <i>Schulte, Karina¹; Swarbrick, Janine¹; Smith, Nick¹; Bondino, Federica²; Magnano, Elena²; Khlobystov, Andrei³</i> <i>¹University of Nottingham, School of Physics and Astronomy, Nottingham, United Kingdom; ²Laboratorio Nazionale TASC INFN-CNR, Elettra Synchrotron, Basovizza, Trieste, Italy; ³University of Nottingham, School of Chemistry, Nottingham, United Kingdom</i>	ASS09-Or5			

NS26 - Self Assembly and Self Organization II

Room: K12

TF/SE10: Joint Session on: Advances Insitu and Exsitu characterization and Polymeric and Organic Thin Films

Room: K13

Time	Title	Abs No	Time	Title	Abs No
13:30	Discrete self-assembled nanostructures on a metal surface: STM studies of axially coordinated porphyrins and asymmetric monomers on Ag(100) <i>Vaughan, Owain; Williams, Federico; Alavi, Ali; Bampos, Nick; Lambert, Richard</i> <i>University of Cambridge, Chemistry, Cambridge, United Kingdom</i>	NS26-Or1	13:30	Novel transrotational structures: combination of AFM and TEM studies of amorphous-crystalline transformation and interface in thin films <i>Kolosov, V. Yu.¹; Schwamm, C. L.¹; Gainutdinov, R. V.²; Tolstikhina, A. L.²</i> ¹ Ural State Economic University, Phys. Dept., Ekaterinburg, Russian Federation; ² Institute of Crystallography RAS, Moscow, Russian Federation	TFSE10-Or1
13:45	Self-assembled supramolecular architectures from tailor made zinc porphyrin molecules <i>George, Herve; Guo, Quanmin</i> <i>University of Birmingham, School of Physics and Astronomy, Birmingham, United Kingdom</i>	NS26-Or2	13:45	A nanocell for internal and interfacial dissipation measurements in confined soft matter films using QCM-D <i>Ohlsson, Gabriel; Langhammer, Christoph; Zoric, Igor; Kasemo, Bengt</i> <i>Chalmers University of Technology, Applied Physics, Gothenburg, Sverige</i>	TFSE10-Or2
14:00	Creation of porous networks from perylene derivatives <i>Matena, Manfred¹; Wahl, Markus¹; Boz, Serpil¹; Jung, Thomas A.²; Gade, Lutz H.³; Stoehr, Meike¹</i> ¹ University of Basel, Basel, Switzerland; ² Paul-Scherrer-Institute, Villigen, Switzerland; ³ University of Heidelberg, Heidelberg, Germany	NS26-Or3	14:00	In situ transmission electron microscope annealing of Ti/ AlN multilayers and subsequent formation of Ti2AlN <i>Persson, Per; Höglund, Carina; Beckers, Manfred; Hultman, Lars</i> <i>Thin Film Physics, Linköpings Universitet, Linköping, Sverige</i>	TFSE10-Or3
14:15	Heteroepitaxy of organic-organic nanostructures: growth and electronic structure <i>Koller, Georg¹; Berkebile, Stephen¹; Oehzelt, Martin¹; Krenn, Joachim R.¹; Haber, Thomas²; Resel, Roland²; Netzer, Falko P.¹; Ramsey, Michael G.¹</i> ¹ Karl-Franzens University Graz, Institute of Physics, Graz, Austria; ² Technical University Graz, Graz, Austria	NS26-Or4	14:15	The reversed shift of raman scattering frequency in SiGeC with the incorporation of interstitial C <i>Choi, Suk; Kim, Hyun-Woo; Kim, Hee Jin; Hong, Sukwon; Lee, Gun-Do; Yoon, Euijoon</i> <i>Seoul National University, Department of Materials Science and Engineering, Seoul, Republic of Korea</i>	TFSE10-Or4
14:30	Molecular rectification in self-assembled monolayers of donor-acceptor dyads - an STM/STS study <i>Matino, Francesca¹; Arima, Valentina¹; Piacenza, Manuel¹; Maruccio, Giuseppe¹; Phaneuf, Ray²; della Sala, Fabio¹; Cingolani, Roberto¹; Rinaldi, Ross¹</i> ¹ NNL(CNR-INFN)-Università degli studi di Lecce, Distretto Tecnologico ISUFI, Lecce, Italy; ² University of Maryland, Department of Materials Science and Engineering, Maryland, United States	NS26-Or5	14:30	Electronic structure of the organic semiconductor blend C60/CuPc <i>Opitz, Andreas¹; Bronner, Markus¹; Brütting, Wolfgang¹; Himmerlich, Marcel²; Schaefer, Juergen A.²; Krischok, Stefan²</i> ¹ University of Augsburg, Inst. of Physics, Augsburg, Germany; ² Technical University of Ilmenau, Inst. of Physics & Inst. of Micro- and Nanotechn., Ilmenau, Germany	TFSE10-Or5
14:45	Dipole-dipole interactions and the structure of self-assembled monolayers <i>Sushko, Maria; Shluger, Alexander</i> <i>University College London, London, United Kingdom</i>	NS26-Or6	14:45	Frequency response analysis of pentacene thin film transistors <i>Miyadera, Tetsuhiko¹; Tsukagoshi, Kazuhito¹; Minari, Takeo¹; Ito, Hiromi²; Aoyagi, Yoshinobu³</i> ¹ RIKEN, CREST, Wako, Japan; ² RIKEN, Wako, Japan; ³ RIKEN, CREST, Tokyo Inst. of Tech., Wako, Japan	TFSE10-Or6
15:00	Molecular self-assembly on nanostructured template surfaces <i>Fasel, Roman</i> <i>Empa, Swiss Fed. Lab. Materials Research, nanotech@surfaces Laboratory, Dübendorf, Switzerland</i>	NS26-Or7	15:00	Hydrogen adsorption on boron doped graphene: an ab initio study <i>Miwa, Roberto Hiroki¹; Martins, Thiago²; Fazzio, Adalberto²</i> ¹ Universidade Federal de Uberlândia, Instituto de Física, Uberlândia-MG, Brazil; ² Universidade de São Paulo, Instituto de Física, São Paulo, Brazil	TFSE10-Or7

EDU02 - Education in Nano and Vacuum Based Science II

Room: K14

SS19 - Molecules on Surfaces

Room: K16/17

Time	Title	Abs. No	Time	Title	Abs No
13:30	The synergy between research and degree course <i>Faust, Rüdiger</i> University Kassel, Kassel, Germany	EDU02-IS01	13:30	Study of adsorption of cysteine and co-adsorption of cysteine and Au on TiO2 <i>Ataman, Evren¹; Isvoranu, Cristina; Andersen, Jesper N.; Schnadt, Joachim</i> Lund University, Department of Synchrotron Radiation Research, Lund, Sverige	SS19-Or1
			13:45	An atomic scale model for S-cysteine self-organized on Au(111) <i>Mateo-Marti, Eva¹; Rogero, Celia¹; De Andres, Pedro²; Martin-Gago, Jose-Angel¹</i> ¹ INTA, CAB, Madrid, Spain; ² ICMM-CSIC, Madrid, Spain	SS19-Or2
14:00	Establishing a new interdisciplinary bachelor and master nano curriculum and a PhD graduate school at iNANO <i>Besenbacher, Flemming</i> University of Aarhus, iNANO Center, Aarhus, Danmark	EDU02-Or01	14:00	Electronic structures of a pentacene monolayer film <i>Kakuta, Haruya¹; Hirahara, Toru²; Matsuda, Iwao²; Nagao, Tadaaki³; Hasegawa, Shuji²; Ueno, Nobuo¹; Sakamoto, Kazuyuki¹</i> ¹ Chiba University, Graduate School of Science and Technology, Chiba, Japan; ² University of Tokyo, Department of Physics, Tokyo, Japan; ³ National Institute for Materials Science, Tsukuba, Japan	SS19-Or3
14:15	Nanotechnology undergraduate education: 2-year and 4-year degree programs <i>Fonash, Stephen; Hallacher, Paul; Kuzma, Terry; Brunner, Amy; Mahoney, William; Ehrmann, Robert</i> Pennsylvania State University, College of Engineering, CNEU, University Park, PA, United States	EDU02-Or02	14:15	Modification of the Cu(110) Shockley surface state by an adsorbed pentacene monolayer <i>Scheybal, Andreas¹; Müller, Kathrin¹; Bertschinger, Rolf¹; Wahl, Markus²; Aebi, Philipp³; Jung, Thomas A.¹</i> ¹ Paul Scherrer Institute, Laboratory for Micro- and Nanotechnology, Villigen, Switzerland; ² University of Basel, Institute of Physics, Basel, Switzerland; ³ University of Neuchatel, Institute of Physics, Neuchatel, Switzerland	SS19-Or4
14:30	Student learning experiences of an engineering nano education programme: gains and hurdles of integrating a growing multidisciplinary field <i>Ahlberg, Anders; Deppert, Knut; Olsson, Thomas</i> Faculty of Engineering, Lund University, Lund, Sweden	EDU02-Or03	14:30	Electron-phonon coupling measured with high-resolution UPS: Effects of fluorination on the charge reorganization energy of pentacene films <i>Kera, Satoshi¹; Hosoumi, Shunsuke¹; Fukagawa, Hirohiko¹; Kataoka, Takashi¹; Nagamatsu, Shin-ichi¹; Sakamoto, Youichi²; Suzuki, Toshiyasu²; Ueno, Nobuo¹</i> ¹ Chiba University, Chiba, Japan; ² Institute for Molecular Science, Okazaki, Japan	SS19-Or5
14:45	NanoEngineering – The bachelor / master study programm on nanotechnology at the university Duisburg-Essen <i>Winterer, Markus; Mertin, Wolfgang; Bacher, Gerd</i> University Duisburg-Essen, Engineering, Duisburg, Germany	EDU02-Or04	14:45	X-ray spectroscopy characterization of alkali doped metal-free phthalocyanine films <i>Nilson, Katharina¹; Åhlund, John¹; Schiessling, Joachim²; Palmgren, Pål²; Göthelid, Emanuelle⁴; Hennies, Franz²; Mårtensson, Nils⁴; Puglia, Carla⁴</i> ¹ Uppsala University, Department of Physics, Uppsala, Sverige; ² University of Lund, MAX-lab, Lund, Sweden; ³ Royal Institute of Technology (KTH), Material Physics, Stockholm, Sweden; ⁴ Uppsala University, Department of Physics, Uppsala, Sweden	SS19-Or6
15:00	Master of science in nanotechnology at NTNU, Norway <i>Christensen, Bjørn Eirik¹; Hafsmo, Jo Esten²</i> ¹ NTNU, Department of Biotechnology, Trondheim, Norge; ² NTNU, Faculty of Natural Sciences and Technology, Trondheim, Norge	EDU02-Or05	15:00	The intra- and intermolecular band structure of a single crystalline organic thin films <i>Koller, Georg¹; Berkebile, Stephen¹; Oehzelt, Martin¹; Puschnig, Peter²; Netzer, Falko P.¹; Ramsey, Michael G.¹</i> ¹ Karl-Franzens University Graz, Institute of Physics, Graz, Austria; ² University of Leoben, Institute for Atomistic Modelling and Design of Ma, Leoben, Austria	SS19-Or7
15:15	Teaching nanoscience across scientific and geographical borders - Experiences from a European Master programme in nanoscience and nanotechnology <i>Chesneau, A¹; Groeseneken, G²; Heremans, P²; Rep, D³; Rudquist, P²; Schwill, P³; Sluiter, B⁴; Wendin, Göran²</i> ¹ Institute of Biophysics, TU Dresden, Dresden, Germany; ² MC2, Chalmers University of Technology, Gothenburg, Sweden; ³ Delft University of Technology, Delft, Netherlands; ⁴ Kavli Inst Nanoscience, Delft Univ of Technology, Leiden Institute of Physics, Leiden University, Delft/Leiden, Netherlands	EDU02-Or06			

TF/SE11: MAX Phase Nanolaminate Multifunctional Ceramic Thin Films

Room: K21

PST/F08 - Fusion II

Room: K22

Time	Title	Abs No	Time	Title	Abs No
13:30	General trends on the properties of M2AC (M = Ti, V, Cr, A = Al, Si, P, S) <i>Zhou, Yanchun; Liao, Ting; Wang, Jingyang</i> Institute of Metal Research, CAS, Shenyang National Laboratory for Materials Science, Shenyang, China	TFSE11-IS1	13:30	The jet tokamak operational limits and design modification control <i>Todd, Thomas</i> EFDA EURATOM-UKAEA JET, TDIU, Machine Operations Dept, Near Abingdon, OX14 3DB, United Kingdom	PSTF08-IS1
14:00	Thin film growth and characterization of epitaxial MAX phases from the Tin+1(Ge, Sn)Cn systems <i>Högberg, Hans; Emmerlich, Jens; Eklund, Per; Frodelius, Jenny; Hultman, Lars</i> Thin Film Physics Division, Dept. of Physics (IFM), Linköping, Sweden	TFSE11-Or1	14:00	Vacuum Technology for ITER <i>Murdoch, David¹; Antipenkov, A²; Caldwell-Nichols, C²; Day, C²; Dremel, M²; Haas, H²; Hauer, V²; Jensen, H²</i> ¹ EFDA Close Support Unit, Garching, Germany; ² ITP Forschungszentrum, Karlsruhe, Germany	PSTF08-IS2
14:15	Synthesis and characterization of cathodic arc deposited epitaxial MAX phase thin films <i>Rosen, Johanna¹; Persson, Per¹; Horling, Anders¹; Hultman, Lars¹; Bilek, Marcela²</i> ¹ Thin Film Physics Division, Linköping, Sweden; ² School of Physics, University of Sydney, Sydney, Australia	TFSE11-Or2			
14:30	SEM och TEM studies of coatings from spraying of Maxthal 211 by HVOF <i>Sonestedt, Marie; Stiller, Krystyna</i> Chalmers University of Technology, Gothenburg, Sweden	TFSE11-Or3	14:30	TIMO - An experimental data base for the design of the large ITER cryosorption pumping systems <i>Day, Christian; Haas, Horst; Dremel, Matthias</i> Forschungszentrum Karlsruhe, Karlsruhe, Germany	PSTF08-Or1
14:45	Growth and characterization of Ti-Al-C thin films deposited by dc magnetron sputtering from a Ti2AlC compound target <i>Frodelius, Jenny; Eklund, Per; Beckers, Manfred; Högberg, Hans; Hultman, Lars</i> Thin Film Physics Division, Dept. of Physics (IFM), Linköping, Sweden	TFSE11-Or4	14:45	Cleaning efficiency of carbon films by oxygen plasmas in the presence of metallic getters <i>Tabarés, Francisco L.¹; Ferreira, Jose Antonio¹; Tafalla, David¹; Tanarro, Isabel²; Herrero, Victor²; Gómez-Aleixandre, Cristina³; Albella, Jose María³</i> ¹ Laboratorio Nacional de Fusión. CIEMAT, Madrid, Spain; ² IEM.CSIC, Madrid, Spain; ³ ICMM.CSIC, Madrid, Spain	PSTF08-Or2
15:00	Gas desorption during friction of amorphous carbon films <i>Rusanov, Anton¹; Fontaine, Julien²; Le Mogne, Thien²; Martin, Jean Michel²; Nevshupa, Roman¹</i> ¹ Bauman Moscow State Technical University, MT-11, Moscow, Russian Federation; ² Ecole Centrale de Lyon, LTDS, Lyon, France	TFSE11-Or5			

NS27 - Nanowires I

Room: K23

NS28 - Molecules on Surfaces IV

Room: K24

Time	Title	Abs No	Time	Title	Abs No
13:30	Growth of branched single crystalline GaAs whiskers on Si nanowire trunks <i>Lugstein, Alois¹; Andrews, Aaron²; Mathias, Steinmayr²; Hyun, Yo²; Bertagnoli, Emmerich²; Weil, Matthias²; Pongratz, Peter²; Schramboeck, Matthias²; Roch, Thomas²; Strasser, Gottfried²</i> ¹ Technical University of Vienna, Solid state electronics, Vienna, Austria	NS27-Or1	13:30	Influence of the local adsorption environment on the intra-molecular contrast of organic molecules in non-contact atomic force microscopy <i>Schirmeisen, Andre¹; Weiner, Dominique¹; Such, Bartosz²; Fuchs, Harald¹</i> ¹ University of Muenster, Institute of Physics, Muenster, Germany; ² Jagiellonian University, Marian Smoluchowski Institute of Physics, Krakow, Poland	NS28-Or1
13:45	Growth and limitations in combining semiconductors of group III-IV-V in nanowires and nanotrees. <i>Wallenberg, L. Reine¹; Dick, Kimberly A.²; Karlsson, Lisa S.³; Larsson, Magnus W.¹; Deppert, Knu⁴; Ross, Frances M.⁴; Samuelson, Lars⁵; Wagner, Jakob B.¹</i> ¹ Chemistry Institution, nCHREM/Polymer and Materials Chemistry, Lund, Sweden; ² Physics, The nanometer structure Consortium, Lund, Sweden; ³ Chemistry Institution, nCHREM/ Polymer and Materials Chemistry, Lund, Sweden; ⁴ Chemistry Institution and IBM Yorktown Heights, nCHREM/Polymer and Materials Chemistry, Lund, Sweden; ⁵ Physics, The nanometer Structure Consortium, Lund, Sweden	NS27-Or2	13:45	Alcohol adsorption on metal terminated V2O3(0001) <i>Romanyshyn, Yuriy¹; Guimond, Sebastien¹; Gbke, Daniel¹; Cavallieri, Matteo²; Kuhlbeck, Helmut¹; Freund, Hans-Joachim¹</i> ¹ Fritz Haber Institute of the Max Planck Society, Chemical Physics Department, Berlin, Germany; ² Fritz Haber Institute of the Max Planck Society, Theory Department, Berlin, Germany	NS28-Or2
14:00	Stability and structure of free-standing III-V nanorods: An ab initio investigation <i>Leitsmann, Roman; Bechstedt, Friedhelm</i> Institut für Festkörperteorie und -optik, Friedrich-Schiller-Universität Jena, Jena, Germany	NS27-Or3	14:00	Accuracy of density functional theory calculations in the dissociation of N2 molecules on W (110) <i>Bocan, Gisela A.¹; Alducin, M.¹; Diez Muñoa, R.²; Busnengo, H. F.³; Salin, A.¹</i> ¹ Donostia International Physics Center, -, San Sebastián, Spain; ² D.I.P.C, Centro de Física de Materiales, CSIC-UPV, Facultad de Químicas UPV/EHU, San Sebastián, Spain; ³ Instituto de Física de Rosario (Conicet-UNR), Fac. de Cs. Exactas, Ingeniería y Agrimensura, UNR, Rosario, Argentina	NS28-Or3
14:15	Novel approach to the fabrication of ordered arrays of quantum wires <i>Rurali, Riccardo; Suñé, Jordi; Cartoixa, Xavier</i> Universitat Autònoma de Barcelona, Departament d'Enginyeria Electrònica, Bellaterra, Spain	NS27-Or4	14:15	Metal-molecular interface behavior about sulfur-containing amino acid and molecules on gold surface <i>Honda, Mitsunori</i> Japan Atomic Energy Agency, Surface Chemistry Research Group, Tokai-Mura, Japan	NS28-Or4
14:30	High current density observed in Mo6S3I6 nanowires by in-situ TEM probing <i>Hummelgård, M¹; Olin, H¹; Vengust, D²; Dvorsek, D²; Mihailovic, D³</i> ¹ Mid Sweden University, Engineering Physics, Sundsvall, Sverige; ² Jozef Stefan Institute, Ljubljana, Slovenia; ³ Jozef Stefan Institute, Mo6, Ljubljana, Slovenia	NS27-Or5	14:30	STM studies of the dissociation of trichloroethylene on silicon surfaces <i>Maraghechi, Pouya¹; Liu, Weiming¹; Horn, Steven¹; Patitsas, Steve²</i> ¹ University of Lethbridge, Lethbridge, Canada; ² University of Lethbridge, Physics, Lethbridge, Canada	NS28-Or5
14:45	First-principles study of electronic structures and optical properties of GaN and ZnO nanowires <i>Akiyama, Toru¹; Nakamura, Kohji²; Ito, Tomonori²; Freeman, A.J.¹</i> ¹ Northwestern University, Department of Physics and Astronomy, Evanston, United States; ² Mie University, Department of Physics Engineering, Tsu, Japan	NS27-Or6	14:45	Cycloaddition of alkene molecules on Si(100) clean surface <i>Akagi, Kazuto; Tsuneyuki, Shinji</i> University of Tokyo, Department of Physics, Tokyo, Japan	NS28-Or6
15:00	Fabrication of single-crystal boron nanowire by thermal carbon reduction method <i>Shen, Chengmin¹; Liu, Fe²; Tian, Jifa¹; Wang, Xingjun¹; Bao, Lihong¹; Yang, Tianzhong¹; Hui, Chao¹; Gao, Hongjun¹</i> ¹ Institute of Physics, Chinese Academy of Sciences, Beijing, China; ² Sun YAT-SEN University, P. R. China, School of Physics and Engineering, Guangzhou, China	NS27-Or7	15:00	Ab initio NEGF-DFT study on electrical transport of single molecular junctions in water solution <i>Tada, Tomofumi; Tawara, Arihiro; Matsuyama, Toshiya; Watanabe, Satoshi</i> The University of Tokyo, Department of Materials Engineering, CREST-JST, Tokyo, Japan	NS28-Or7
			15:15	Micromachined active probes with polymer membrane and integrated interferometer for single molecule force spectroscopy <i>Torun, Hamdi; Sarangapani, Krishna; Zhu, Cheng; Degertekin, Levent</i> Georgia Institute of Technology, Atlanta, United States	NS28-Or8

SS20 - Hybrid Solid Interface

Room: A2

SS21 - Surface Electronic Structure and Strongly Correlated System

Room: A3

Time	Title	Abs No	Time	Title	Abs No
13:30	Water at a hydrophilic surface: Structure & transport <i>Feibelman, Peter J</i> Sandia National Laboratories, Albuquerque, NM, United States	SS20-IS1	13:30	Monolayer films of hexagonal boron nitride on transition metal surfaces <i>Osterwalder, Juerg¹; Greber, Thomas¹; Hengsberger, Matthias²; Auwärter, Willi²; Muntwiler, Matthias²; Corso, Martina²; Berner, Simon²; Dolocan, Andrei²; Morscher, Martin²; Brugger, Thomas²</i> ¹ University of Zuerich, Physics Department, Zuerich, Switzerland; ² University of Zuerich, Zuerich, Switzerland	SS21-IS1
14:00	Hydrogen bonding in water: the liquid phase and on surfaces <i>Nilsson, Anders</i> Fysikum, Stockholm University, Sweden, Stanford University, California, United States	SS20-IS2	14:00	Monolayer h-BN on metal surfaces: trends in electronic structure revealed by core-level spectroscopies <i>Preobrajenski, Alexei¹; Vinogradov, Alexander²; Nesterov, Michail²; Krasnikov, Sergej²; Ng, May Ling²; Martensson, Nils¹</i> ¹ Lund University, MAX-lab, Lund, Sweden; ² St. Petersburg State University, V.A.Fock Institute of Physics, St. Petersburg, Russian Federation; ³ Dublin City University, School of Physical Sciences, Dublin, Ireland; ⁴ Uppsala University, Department of Physics, Uppsala, Sweden	SS21-Or1
			14:15	Resonant processes and coulomb interactions in (C59N)2 <i>Schulte, Karina¹; Wang, Li²; Moriarty, Philip¹; Prassides, Kosmas³; Tagmatarchis, Nikos⁴</i> ¹ University of Nottingham, School of Physics and Astronomy, Nottingham, United Kingdom; ² National University of Singapore, Physics Department, Singapore, Singapore; ³ University Science Laboratories, Department of Chemistry, Durham, United Kingdom; ⁴ National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece	SS21-Or2
14:30	Wettability and chemical bonding of water and hydroxyl at metal surfaces <i>Schiros, Theanne¹; Näslund, L.-Å.²; Andersson, Klas²; Odellius, Michael¹; Yamamoto, Susumu²; Karlberg, G.S.⁴; Öström, H.⁵; Ogasawara, H.²; Pettersson, L.G.M.¹; Nilsson, A.²</i> ¹ Stockholm University, Fysikum, Stockholm, Sweden; ² Stanford Synchrotron Radiation Laboratory, Menlo Park, United States; ³ DTU/Center for Individual Nanoparticle Functiona, Kongens Lyngby, Denmark; ⁴ Chalmers/Goteborg University, Department of Applied Physics, Denmark; ⁵ Stockholm University, Stockholm, Sweden	SS20-Or1	14:30	Spin selectivity by Auger-photoelectron coincidence spectroscopy <i>Cini, Michele¹; Ugenti, Simona¹; Perfetto, Enrico²; Da Pieve, Fabiana²; Natoli, Calogero Rino²; Gotter, Roberto²; Offi, Francesco²; Ruocco, Alessandro²; Stefani, Giovanni²; Tommasini, Fernando²; Fratesi, Guido²; Trioni, Mario Italo²; Brivio, Gian Paolo²</i> ¹ INFN-INFN and University "Tor Vergata", Department of Physics, Rome, Italy; ² CNISM and University "Tor Vergata", Department of Physics, Rome, Italy; ³ CNISM and University "Roma Tre", Department of Physics, Rome, Italy; ⁴ INFN-Laboratori Nazionali di Frascati, Frascati, Italy; ⁵ Laboratorio Nazionale TASC-INFN, Trieste, Italy; ⁶ TASC-INFN and University of Trieste, Department of Physics, Trieste, Italy; ⁷ CNISM and University of Milano-Bicocca, Department of Materials Science, Milan, Italy	SS21-Or3
14:45	The water monolayer, multilayers and the wetting of Ru(0001) <i>Hodgson, Andrew; Haq, Sam; Gallagher, Mark; Clay, Chris; Omer, Ahmed; Darling, George</i> The University of Liverpool, Surface Science Research Centre, Liverpool, United Kingdom	SS20-Or2	14:45	Temperature dependent resonant soft X-ray emission study of the metal-insulator transition in V02 <i>Schmitt, Thorsten¹; Duda, Laurent²; Mattesini, Maurizio³; Augustsson, Andreas⁴; Dong, C.L.⁴; Guo, Jinghua⁴; Klemm, Matthias⁵; Eyert, Volker⁶; Horn, Siegfried⁶; Ahuja, Rajeev⁶; Nordgren, Joseph²</i> ¹ Paul Scherrer Institut, Swiss Light Source, Villigen PSI, Switzerland; ² Uppsala University, Department of Physics, Uppsala, Sweden; ³ Universidad Complutense de Madrid, Departamento de Física de la Tierra, Astronomía y, Madrid, Spain; ⁴ Lawrence Berkeley National Laboratory, Advanced Light Source, Berkeley, United States; ⁵ Universität Augsburg, Institut für Physik, Augsburg, Germany	SS21-Or4
15:00	Microscopic origin of wetting of metals by water <i>Yamamoto, Susumu¹; Andersson, Klas¹; Hendrik, Bluhm²; Guido, Ketteler²; Starr, David E.²; Schiros, Theanne¹; Ogasawara, Hirohito¹; Pettersson, Lars G. M.²; Salmeron, Mique²; Nilsson, Anders¹</i> ¹ Stanford Synchrotron Radiation Laboratory, Menlo Park, United States; ² Lawrence Berkeley National Laboratory, Berkeley, United States; ³ Stockholm University, Stockholm, Sweden	SS20-Or3	15:00	Surface chemistry of ceria from wave function-based electronic structure calculations <i>Herschend, Bjorn; Muller, Carsten; Hermansson, Kersti</i> Uppsala University, Department of Materials Chemistry, Uppsala, Sverige	SS21-Or5

Thursday 5 July 2007

NS29 - Novel Probes and High Speed Imaging
Room: A4

EMP10 - Applications of Optoelectronics
Room: A5

Time	Title	Abs No	Time	Title	Abs No
13:30	Electronic transport at monolayers and atomic chains on silicon surfaces <i>Hasegawa, Shuji</i> University of Tokyo, Tokyo, Tokyo, Japan	NS29-IS1	13:30	Quantum-regime semiconductor heterostructures grown by MBE for OE devices and their industrial exploitation <i>Pessa, Markus</i> Tampere University of Technology, Optoelectronics Research Centre (ORC), Tampere, Finland	EMP10-IS
14:00	The mono-cantilever method of performing multi-contact measurements of surface conductivity <i>Wells, Justin¹; Kallehauge, Jesper²; Gammelgaard, Lauge³; Hofmann, Philip¹</i> ¹ Nano and ISA, University of Aarhus, Aarhus C, Denmark; ² ISA, University of Aarhus, Aarhus C, Denmark; ³ MIC, Technical University of Denmark, Kgs. Lyngby, Denmark	NS29-Or1	14:00	Two-photon indirect exciton absorption in GaSe <i>Grivickas, Vytautas¹; Bikbajevs, Vitalijus¹; Allakhverdiev, Kerim²; Linnros, Jan³</i> ¹ Vilnius University, IMSAR, Vilnius, Lithuania; ² Marmara Research Centre, Gebze, Turkey; ³ Royal Institute of Technology, MAP, Kista-Stockholm, Sweden	EMP10-Or1
14:15	High-speed simultaneous measurement of topography and energy dissipation with phase modulation AFM in liquid <i>Li, Yan Jun; Naitoh, Yoshitaka; Kageshima, Masami; Sugawara, Yasuhiro</i> Osaka University, Department of Applied Physics, Suita, Japan	NS29-Or2	14:15	Influence of Er and O concentrations on the microstructure and luminescence of Si:Er/O LEDs <i>Karim, Amir¹; Hansson, Göran¹; Linnarsson, Margareta²</i> ¹ Linköping University, Physics Chemistry and Biology, Linköping, Sweden; ² Royal Institute of Technology, Stockholm, Sweden	EMP10-Or2
14:30	Organic surface observation using non-contact scanning nonlinear dielectric microscopy <i>Kobayashi, Shin-ichiro; Cho, Yasuo</i> Tohoku University, Research Institute of Electrical Communication, Sendai, Japan	NS29-Or3	14:30	Efficient electroabsorption for mid-infrared wavelengths using intersubband transitions <i>Holmstrom, Petter¹; Janes, Peter²; Ekenberg, Ulf³; Thyllen, Lars³</i> ¹ Sophia University, Electrical and Electronics Engineering, Tokyo, Japan; ² Proximion Fiber Systems, Kista, Sweden; ³ Royal Institute of Technology, Microelectronics and Applied Physics, Kista, Sweden	EMP10-Or3
14:45	Visualization of charges localized in the thin gate film of Metal-Oxide-Nitride-Oxide-Semiconductor type Flash memory using the Scanning Nonlinear Dielectric Microscopy - detecting the higher order nonlinear dielectric constant <i>Honda, Koichiro¹; Cho, Yasuo²</i> ¹ Fujitsu Laboratories Ltd, Atsugi, Japan; ² Tohoku University, Sendai, Japan	NS29-Or4	14:45	Sensitive focal plane arrays for detection of Terahertz radiation based on the doped IV-VI narrow gap semiconductors <i>Khokhlov, Dmitry¹; Akimov, Boris¹; Ryabova, Ludmila²; Nicorici, Andre³; Shklover, Valery⁴</i> ¹ Moscow State University, Physics Department, Moscow, Russian Federation; ² Moscow State University, Chemistry Department, Moscow, Russian Federation; ³ Institute of Applied Physics, Kishinev, Moldova, Republic of; ⁴ Swiss Federal Institute of Technology, Zurich, Switzerland	EMP10-Or4
15:00	The development of ion conductance microscope module for imaging soft biological samples <i>Cho, Sang-Joon; Kim, Eunpa; Kim, Yong-Seok; Lee, Jung-Rok; Cho, Seong Hwan; Park, Sang-il</i> Park Systems, Suwon, Republic of Korea	NS29-Or5	15:00	Fabrication of plasmonic resonant antennas by FIB and electron beam lithography <i>Sikola, Tomas¹; Kekatpure, Rohan D.²; Pala, Ragip A.²; Bartosik, Miroslav¹; Tomanec, Ondrej¹; van Dorpe, Pol³; Brongersma, Mark L.⁴</i> ¹ Brno University of Technology, Inst. of Physical Engineering, Brno, Czech Republic; ² Stanford University, The Geballe Laboratory for Advanced Materials, Stanford, United States; ³ IMEC, Leuven, Belgium; ⁴ Stanford, The Geballe Laboratory for Advanced Materials, Stanford, United States	EMP10-Or5

Poster Sessions – Poster Group 4

Thursday 5 July from 15.45 to 17.45 in Hall A1 (exhibition hall)
Presenting authors is present by their poster during the poster sessions.

ASS - Surface Modification and Functionalization

ASSP4-01

Nano-scale morphology and hydrogenation of Si surfaces in the early phase of hydrogen annealing

Shimizu, Ryosuke¹; Kuribayashi, Hitosh²; Hiruta, Reiko²; Sudoh, Koichi²; Iwasaki, Hiroshi³

¹Fuji Electric Advanced Technology Co., Ltd., Material and Science Laboratory, Hino, Tokyo, Japan; ²Fuji Electric Advanced Technology Co., Ltd., Semiconductor Device Laboratory, Matsumoto, Nagano, Japan; ³Osaka University, Institute of Scientific and Industrial Research, Ibaraki, Osaka, Japan

ASSP4-02

See SS04-Or5

ASSP4-03

Scanning conductive probe microscopy of thiophen molecules incorporated into chemically adsorbed monolayer

Yamamoto, Shin-ichi¹; Ogawa, Kazufum²

¹Kobe City College of Technology, Department of electrical engineering, Kobe, Japan; ²Kagawa University, Department of Advanced Materials Science, Faculty, Takamatsu, Japan

ASSP4-04

Chemical control over surface atomic structure and electronic properties of III-V semiconductors by solvated ions

Lebedev, Mikhail

A. F. Ioffe Physico-Technical Institute, Russian Academy of Sciences, St. Petersburg, Russian Federation

ASSP4-05

Real-time observation of electron-stimulated effects on Si(001) by optical reflectance spectroscopy

Ohno, Shinya¹; Takizawa, Jun-ichi¹; Koizumi, Junya¹; Mitobe, Fumitake¹; Tamegai, Ryota¹; Suzuki, Takano²; Shudo, Ken-ichi¹; Tanaka, Masatoshi¹

¹Yokohama National University, Department of Physics, Yokohama, Japan; ²National Defence Academy, Department of Applied Physics, Yokosuka, Japan

ASSP4-06

Preparation and characterization of hyaluronan monolayers on glass surfaces

Pasqui, Daniela; Atrei, Andrea; Barbucci, Rolando

University of Siena, Scienze e Tecnologie Chimiche, Siena, Italy

ASSP4-07

How do monovalent atoms modify the reactivity of silicon surfaces? DFT studies for NH₃ adsorption on Cl/Si(001)

Lange, Bjoern; Schmidt, Wolf Gero

University of Paderborn, Theoretical Physics, Paderborn, Germany

ASSP4-08

Surface property modification of steel by depositing DLC film

Lin, Zeng; Ba, Dechun; Wang, Feng; Lv, Shaobo; Yao, Hongran

Vacuum and Fluid Engineering Research Center, Nort, Shenyang, China

ASSP4-09

Photoemission and NEXAFS study of graphene surface

Kim, Bongsoo¹; Kim, Ki-Jeong¹; Lee, Han Gu²; Choi, Jung Hun³; Kang, Tai-Hee¹; Kim, Sehun³

¹Postech, Pohang Light Source, Pohang, Republic of Korea; ²Postech, Physics, Pohang, Republic of Korea; ³Kaist, Chemistry, Daejeon, Republic of Korea

ASSP4-10

Low temperature nitridation of the Si(100)-(2×1) surface by photon and e-beam irradiation

Moon, Sangwoon¹; Jeon, Cheolho²; Hwang, Han-Na³; Hwang, Chan-Cuk³; Kim, Ki-Jeong³; Kim, Bongsoo³; Chung, Sukmin¹; Park, Chong-Yun²

¹Pohang University of Science and Technology, Pohang, Republic of Korea; ²Sungkyunkwan University, Suwon, Republic of Korea; ³Pohang Accelerator Laboratory, Pohang, Republic of Korea

ASSP4-11

Aging and wear resistance of phosphoric acid-based anti-adhesion layers on nickel stamps applied in nanoimprint lithography

Keil, Matthias; Baker, Nathalie; Frennsson, Göran; Löfstrand, Anette; Beck, Marc; Heidari, Babak

Obducat A.B., Malmö, Sweden

ASSP4-12

Ultrathin films of cellulose: new perspectives for biosensors

Botelho do Rego, Ana Maria¹; Ferraria, Ana Maria¹; Boufi, Sami²; Parra, Vicente³; Rei Vilar, Manuel³

¹IST, Technical University of Lisboa, Centro de Química-Física Molecular, Lisboa, Portugal; ²Faculté des Sciences de Sfax, Laboratoire Sciences des Matériaux et Environnement, Sfax, Tunisia; ³CNRS - Université Paris Diderot, ITODYS, Paris, France

ASSP4-13

Neurotransmitter derivatives adsorbed on gold: Structure and molecular orientation

Vahlberg, Cecilia¹; Petoral Jr, Rodrigo M.¹; Carlsson, Andreas¹; Broo, Klas²; Uvdal, Kajsa¹

¹Linköping University, Department of Physics, Chemistry and Biology (IFM), Linköping, Sweden; ²Göteborg University, Department of Occupational & Environmental Medicine, Göteborg, Sweden

ASSP4-14

Yttrium-based photocathodes: the rule of the adsorbed gas on the photoelectron performance

Cultrera, Luca¹; Gatto, Giancarlo¹; Miglietta, Paola²; Tazzioli, Franco¹; Perrone, Alessio²

¹National Institute of Nuclear Physics, Frascati-Roma, Italy; ²University of Salento, Physics Department, Lecce, Italy

ASSP4-15

Semiconductors with nanocanals for effective generation of terahertz radiation

Nazarov, Maxim¹; Shepelev, Andrey²; Shkurunov, Alexander¹; Skuratov, Vladimir³; Zagorski, Dmitri⁴

¹M.V. Lomonosov Moscow State University, Moscow, Russian Federation; ²A.N. Kosygin Moscow State University, Moscow, Russian Federation; ³Joint Institute for Nuclear Research, Dubna, Russian Federation; ⁴A.V. Shubnikov Institute of Crystallography, Moscow, Russian Federation

ASSP4-16

Covalent grafting of glycine onto the porous silicon surface

Sam, Sabrina¹; Gouget-Laemmel, Anne-Chantal²; Chazalviel, Jean-Noël²; Ozanam, François²; Gabouze, Nouredine¹; Djebbar, Safia³

¹UDTS, Couches Minces et Applications CMA, Algiers, Algeria; ²CNRS-Ecole Polytechnique, Laboratoire de Physique de la Matière condensée, Palaiseau, France; ³USTHB, Faculté de Chimie, Bab Ezzouar, Algeria

ASSP4-17

Cathode and photo luminescence of silicon dioxide layer implanted with germanium negative ions at multi-energy

Arai, Nobutoshi¹; Tsuji, Hiroshi²; Kojima, Kenji²; Adachi, Kouichirou³; Kotaki, Hiroshi²; Ishibashi, Toyotsugu⁴; Gotoh, Yasuhito²; Ishikawa, Junzo²

¹Kyoto Univ./Sharp corp., Elec. Sci. Eng./Adv. Tech. Res. Lab., Kyoto/Tenri, Japan; ²Kyoto University, Electronic Science and Engineering, Kyoto, Japan; ³Sharp corporation, Advanced technology research laboratories, Tenri, Japan; ⁴Kyoto University, Electronic Science and Engineering, Tenri, Japan

ASSP4-18

Temperature programmed desorption of ionic liquids in uhv: pure, binary and quaternary surfaces

Armstrong, James; Deyko, Aleksey; Hurst, Christopher; Jones, Robert; Licence, Peter; Lovelock, Kevin; Satterley, Christopher; Taylor, Alasdair; Villar-Garcia, Ignacio
University of Nottingham, Chemistry, Nottingham, United Kingdom

ASSP4-19

XPS study of the plasma activation of PET and LDPE polymers

Lopez, Carmen; Barranco, Angel; Cotrino, Jose; Yubero, Francisco; Gonzalez-Elipe, Agustin R.

CSIC-Universidad Sevilla, Instituto de Ciencia de Materiales de Sevilla, Sevilla, Spain

ASSP4-20

Surface modification and characterization using STM/STS with conductive diamond tip

Lysenko, Oleg; Novikov, Nikolai; Grushko, Vladimir; Shcherbakov, Alexander

Institute for Superhard Materials, Kiev, Ukraine

ASSP4-21

Oriented immobilization of IgG on the Si(001) surfaces for protein chip applications

Demirel, Gokhan; Caglayan, Oguzhan; Garipcan, Bora; Duman, Memed; Piskin, Erhan

Hacettepe University, Chemical Engineering, Ankara, Turkey

ASSP4-22

A hybrid processing method to generate surfaces with independently tunable amplitude and spatial roughness parameters

Sundararajan, Sriram; Zhang, Yilei

Iowa State University, Mechanical Engineering, Ames, United States

ASSP4-23

Composition of multicomponent coatings prepared with the use of ion beam assisted deposition of Pt and Ni on titanium substrates

*Poplavsky, Vasily; Matys, Vladimir; Mischenko, Tatiana; Zharsky, Ivan
Belarusian State University of Technology, Physics, Minsk, Belarus*

ASSP4-24

Sputtering of LiF, KCl, KBr crystals by electron and multicharged ion bombardment

*Kuchkarov, Mahmudjon
ASA Institute, New York, United States*

ASSP4-25

Abstract withdrawn

ASSP4-26

Preferential sputtering of SiC(001) and GaAs(001) by grazing ion bombardment

*Dzhurakhalov, Abdiravuf; Elmonov, Asliddin; Yusupov, Maksud
Arifov Institute of Electronics, Theoretical Dept., Tashkent, Uzbekistan*

ASSP4-27

Atmospheric pressure plasma cleaning of Cu flip chip bump for ultrasonic bonding

*Koo, Ja-Myeong; Lee, Jong-Bum; Jung, Seung-Boo
Sungkyunkwan University, School of Advanced Materials Science & Engineering, Suwon, Republic of Korea*

ASSP4-28

Photo-induced decomposition of 2-Fluoroethanol on the Si(001)2x1 surface

*Hwang, Han-Na¹; Jeon, Cheolho²; Moon, Sangwoon³; Hwang, Chan-Cuk¹
¹Pohang Accelerator Laboratory, Pohang, Republic of Korea; ²Sung Kyun Kwan University, Suwon, Republic of Korea; ³Pohang University of Science and Technology, Pohang, Republic of Korea*

ASSP4-29

Silicon-microfilament-network generated by nanosecond laser pulses

*Lugomer, Stjepan¹; Szorenyi, Tamas²; Geretovszky, Zolt²
¹Rudjer Boskovic Institute, Material physics Dept, Zagreb, Croatia; ²The University of Szeged, 2Research Group on Laser Physics, Hungarian Academ, Szeged, Hungary*

ASSP4-30

Study of polystyrene film coating on the surface of porous silicon

*Tighiit, Fatma Zohra¹; Sam, Sabrina¹; Belhanech, Naima²; Gabouze, Noureddine¹
¹UDTS, Couches Minces et Applications CMA, Algiers, Algeria; ²ENP, Génie de l'Environnement, Algiers, Algeria*

ASSP4-31

Stability of porous silicon surface structures by grafting pentyne and pentene groups

*Belhousse, Samia¹; Sam, Sabrina¹; Gabouze, Noureddine¹; Benaboura, Ahmed²
¹UDTS, CMA, Algiers, Algeria; ²USTHB, Macromoléculaire, Algiers, Algeria*

ASSP4-32

Structure and elemental distribution in Beilby Layer on the surface of Fe-Cr-Al-La alloy

*Kutelia, Elguja¹; Tsurtsumia, Olga¹; Bakhtiyarov, Sayavur²
¹Georgian Technical University, Republic Center for Structure Researches, Tbilisi, Georgia; ²New Mexico Institute of Mining and Technology, Department of Mechanical Engineering, Socorro (NM), United States*

ASSP4-33

The nonelastic sputtering of ionic crystals under electron, cesium and multiple charged ions bombardment

*Kuchkarov, Mahmudjon
ASA Institute, School of Computer Technology, New York, United States*

ASSP4-34

Surface modification of alumina porous supports systems via dip-coating of alumina submicron and nano powders

*Ahmadian, Pejman; Babaluo, Ali Akbar; Bayati, Behruz
Sahand University of Technology, Chemical Engineering, Tabriz, Islamic Republic of Iran*

ASSP4-35

Measuring light induced structural changes in a-Si:H with atomic force

Agarwal, Pratima¹; Srivastava, Alok²; Deva, Dinesh³

¹Indian Institute of Technology, Guwahati, Guwahati, India; ²Tata Institute of Fundamental Research, Mumbai, India; ³Indian Institute of Technology, Kanpur, Nanoscience Center, Kanpur, India

ASSP4-36

Effect of phosphorus ratio of coating on fatigue strength of the plain carbon steel coated by electroless nickel plating method

Citak, Ramazan; Matik, Ulas

Gazi University, Technical Education Faculty, Department of Metallurgy, Ankara, Turkey

ASSP4-37

XPS study of nitrogen plasma activated PET surface

Alenka, Vesel; Miran, Mozetic; Ita, Junkar

Jozef Stefan Institute, F4, Ljubljana, Slovenia

ASSP4-38

Plasma nitrocarburizing of AISI 5115 steel in a CO₂ containing atmosphere

Sohi, Mam

Ut, Tehran, Islamic Republic of Iran

ASSP4-39

Surface modification of Polyacrylonitrile (PAN) based Carbon fibers by chemical and plasma techniques

Sarraf, Hamid; Louda, Petr

Technical University of Liberec, Department of Materials, Liberec, Czech Republic

ASSP4-40

Tetrakis(dimethylamino)ethylene on Au: a model system for integer charge transfer at hybrid interfaces

de Jong, Michel¹; Lindell, Linda¹; Unge, Mikael¹; Crispin, Xavier²; Stafström, Sven¹; Osikowicz, Wojciech¹; Salaneck, William¹

¹Linköping University, IFM, Linköping, Sweden; ²Linköping University, ITN, Norrköping, Sweden

ASSP4-41

Xps studies of ionic liquid surfaces in uhv; first adsorption experiments using water

Deyko, Aleksey; Hurst, Christopher; Jones, Robert; Licence, Peter; Lovelock, Kevin; Smith, Emily; Taylor, Alasdair; Villa-Garcia, Ignacio

University of Nottingham, Chemistry, Nottingham, United Kingdom

ASSP4-42

Biomimetic 3-D microstructured surfaces by self-assembly of biomolecules

Koch, Kerstin¹; Wandelt, Klaus¹; Hommes, Alexander²; Broekmann, Peter²; Adrian, Niemiets¹; Barthlott, Wilhelm¹

¹University of Bonn, Nees Institute for Biodiversity of Plants, Bonn, Germany; ²University of Bonn, Institute for Physical and Theoretical Chemistry, Bonn, Germany

ASSP4-42B

Surface functionalization of Si nanoparticles by MW plasma polymerization

Sharifian, Mehdi¹; Shokri, Babak¹; Atai, Mohammad²

¹Shahid Beheshti University, Tehran, Islamic Republic of Iran; ²Iran Polymer and Petrochemical Institute, Tehran, Islamic Republic of Iran

ASS - Reference Materials and Standardisation

ASSP4-43

New data base of absolute auger electron spectra in aist

Goto, Keisuke

AIST, Research Institute of Instrumentation Frontier, Nagoya, Japan

ASS - Imaging

ASSP4-44

The analysis of joining boundary between Ni-P electroless plate and lead-free solder by wavelength-dispersive EPMA equipped with a FE electron gun

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ASSP4-45

Bio-property mapping system with functional nano-probes ½The functional nano probe sensor and biochip system for Bio-SPM System

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ASSP4-46

Seeing of atomic orbitals in STM images of Si(111)-(7×7) surface

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ASSP4-47

A simple EUV nanolithographer for scientific applications

Kalmykov, Serguei¹; Seisyan, Ruben²; Roiz, Igor³; Rymalis, Mikhail¹; Tumakaev, Gennadii¹; Voznesensky, Nikola⁴; Zhevrlakov, Alexander⁴

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ASSP4-48

Atomic force microscopy in metrological solution; critical angle measurement

Kim, Eunpa; Shin, Hyun-Seung; Kim, Yong-Seok; Cho, Sang-Joon; Park, Sang-il

Park Systems, Suwon, Republic of Korea

ASSP4-48B

Phantom designing based on nano hydroxyapatite composite in a new bone mineral densitometry instrument

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NS - Cluster Nanoparticles and Nanotubes - Fabrication

NSP4-49

Transfer and use of free-standing carbon nanosheets via incorporation into polymeric thin films

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NSP4-50

Gold and silver micro-crystals: triangular and hexagonal plates, wires and polyhedra

Base, Tomas¹; Subrt, Jan¹; Bastl, Zdenek²; Slouf, Miroslav³; Vetushka, Aliaksei⁴; Ledinsky, Martin⁴; Fejfar, Antonin⁴

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NSP4-51

Carbon nanotube peapods: fullerene dimerization and polymerization

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NSP4-52

On-chip growth of carbon nanotubes by local resistive heating

Dittmer, Staffan¹; Nerushev, Oleg A²; Campbell, Eleanor E.B.¹

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NSP4-53

Spontaneous formation of silver nanoparticles in polymer film

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NSP4-54

Abstract withdrawn

NSP4-55

Effect of sputtered ni catalyst thickness on growth of CNTs by using TCVD

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NSP4-56

Cluster ion beam deposition of size-selected metal nanoparticles

Vučković, Saša; Svanqvist, Mattias; Popok, Vladimir; Campbell, Eleanor

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NSP4-58

Growth behavior of aligned single-walled carbon nanotubes on sapphire surfaces

Yamazaki, Akira¹; Takagi, Daisuke²; Suzuki, Satoru²; Jeong, Goo-Hwan³; Yoshimura, Hideyuki¹; Homma, Yoshikazu²; Kobayashi, Yoshihiro³

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NSP4-59

A parametric investigation for large scale growth of vertically aligned carbon nanotubes using chemical vapor deposition

Jeong, Goo-Hwan; Olofsson, Niklas; E.B. Campbell, Eleanor

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NSP4-60

Atomic layer deposition of iron oxide thin films and nanotubes using ferrocene and oxygen

Rooth, Märten¹; Johansson, Anders¹; Kukli, Kaupo²; Aarik, Jaan²; Boman, Mats¹; Hårsta, Anders¹

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NSP4-61

Controlled synthesis for diameter control of single-walled carbon nanotubes using various structured substrates

Jeong, Goo-Hwan; Olofsson, Niklas; E. B. Campbell, Eleanor

Gothenburg University, Gothenburg, Sweden

NSP4-62

The effect of Au amount on size uniformity of self-assembled Au nanoparticles

Wang, Dau-Chung¹; Chen, Shinn-Hwa¹; Chen, Gen-You¹; Chen, Ken-Yen¹; Wun, Sin-Jhu²

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NSP4-63

Preferential functionalisation and stability of carbon nanotubes probed by Raman spectroscopy

Liu, Jie¹; Dossot, Manue²; Olevik, David³; Mamane, Victor⁴; Vigolo, Brigitte¹; Abrahamsson, David³; Jonsson, Henrik³; Fort, Yves⁴; Humbert, Bernard²; Soldatov, Alexander³; McRae, Edward¹

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NSP4-64

Functionalization-induced solubility and deposition of carbon-coated magnetic nanoparticles

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NSP4-65

See TFSE04-Or4

NSP4-66

A comparative study of heat-treated Ag-SiO₂ nanocomposite synthesized by co-sputtering and sol-gel methods

Sangpour, Parvaneh; Akhavan, Omid; Babapour, Abbas; Moshfegh, Alireza

Sharif University of Technology, Physics, Tehran, Islamic Republic of Iran

NSP4-67

Synthesis of palladium metal nanoparticles via reduction in polymeric matrix

Ahmadian, Pejman; Babalu, Ali Akbar; Karimi, Reza

Sahand University of Technology, Chemical Engineering, Tabriz, Islamic Republic of Iran

NSP4-68

Very simple preparation method of carbon nanotubes by optical CVD with nonimaging optics

Aoqui, Shin-ichi¹; Ebihara, Kenji²; Ueda, Tsuyoshi³; Sakai, Takamasa⁴

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NSP4-69

Lithium surface segregation induced by adsorbed oxygen atoms on Li-intercalated single wall carbon nanotubes

Cupolillo, Anna; Giallombardo, Claudia; Papagno, Luigi

INFN-University of Calabria, Physics, Rende, Italy

NSP4-70

Preparation of catalytic nano-particles and growth of aligned CNTs with HF-CVD

Schwinger, Wolfgang¹; Haring, Josef¹; Jantscher, Alexander¹; Haubner, Roland²; Gerger, Isabella²; Kovalenko, Maksym³; Heiss, Wolfgang³; Schöftner, Rainer¹

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NSP4-71

Nanodiamond conglomerates covered by metal-containing nanoparticles

Popkov, Oleg; Yurkov, Gleb; Gubin, Sergey

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NSP4-72

Carbon nanotubes growth by thermal chemical vapor deposition using silica and alumina as support layers and Fe as catalyst

Aguiar, Marina R.¹; Verissimo, Carla¹; Ramos, Antonio C. S.²; Moshkalev, Stanislav A.¹; Swart, Jacobus W.³

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NSP4-73

(Ge,Er) co-doped in SiO₂ sputtered films with and without voids and their stability

Mayandi, Jeyanthinath¹; Finstad, Terje¹; Foss, Steinar¹; Heng, Chenglin¹; Klette, Hallgeir²; Lacolle, Matthieu³

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NSP4-74

Variation of ionic valency in sodium-C₆₀ ionic-bonding interaction

Tsukamoto, Shigeru¹; Nakayama, Tomonobu²; Aono, Masakazu²

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NSP4-75

SAXS structural study of xerogels and aerogels formed from small-molecule organic gelators

Grigoriev, Helena

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NSP4-76

Experimental preparation of oriented nanotubes in a modified plasma enhanced hot filament chemical vapor deposition reactor

Vinduska, Peter¹; Janik, Jan¹; Caplovicova, Maria²; Buc, Dalibor¹

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NSP4-77

Synthesis of liquid arc-discharge carbon nanotube for applying in nano(bio)sensors

Jahanshahi, Mohsen¹; Raoof, Jahan-Bakht²; Ardestani, Fatemeh¹; Hajizadeh, Solmaz¹; Jabari Sereht, Razieh¹

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NSP4-78

Fabrication of cadmium sulfide nano-particles using two kinds of protein cages, apoferritin and Dps

Iwahori, Kenji¹; Enomoto, Takahiro²; Yamashita, Ichiro³

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NSP4-79

Experimental preparation of oriented nanotubes in a modified plasma enhanced hot filament chemical vapor deposition reactor ↓

Vinduska, Peter¹; Janik, Jan¹; Buc, Dalibor¹; Caplovicova, Maria²

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NSP4-79B

Transfer characteristics of multiwalled carbon nanotube field effect transistors

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NSP4-79C

Metal thin-film nanophases and their interface with silicon

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NSP4-79D

Structure, composition and magnetic properties of carbon nanotubes doped by Fe during the growth

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NS - Cluster Nanoparticles and Nanotubes - Characterization and Applications

NSP4-80

Electronic structure of Bi_2S_3 clusters in $(\text{As}_2\text{S}_3)_{1-x}\text{Bi}_x$ thin films

Shchurova, Tatiana¹; Savchenko, Nicolai¹; Kondrat, Alexander¹; Rubish, Vasy²

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NSP4-81

Diameter dependence of oscillation-energy dissipation of cantilevered multiwall carbon nanotubes

Akita, Seiji¹; Sawaya, Shintaro¹; Nakayama, Yoshikazu²

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NSP4-82

Electronic, chemical and structural characterization of CNTs grown by SiC surface decomposition

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NSP4-83

Adsorption site identification of hydrogen molecules on SWCNTs by low-temperature thermal desorption spectroscopy

S, Iwata¹; S, Ogura¹; K, Nakai¹; T, Okano¹; K, Fukutani¹; Y, Sato²; K, Tohji²

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NSP4-84

Abstract withdrawn

NSP4-85

Optical and structural properties of $\text{C}_{60}\text{C}_8\text{H}_8$

Iwasiewicz-Wabnig, Agnieszka¹; Talyzin, Alexandr¹; Sundqvist, Bertil¹; Pekker, Sando²; Kovats, Eva²

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NSP4-86

Conductivity of Rb_4C_{60} under pressure

Sundqvist, Bertil; Iwasiewicz-Wabnig, Agnieszka; Wågberg, Thomas

Umeå University, Department of Physics, Umeå, Sweden

NSP4-87

Fabrication of screen-printed carbon nanotube emitter made of purification-free carbon nanotubes and its application to vacuum electronics

Fujii, Shunjiro¹; Suto, Hirofumi¹; Yoshihara, Kumiko¹; Ishida, Kazuhiro¹; Tanaka, Yuya¹; Oura, Kenjiro²; Honda, Shin-ichi¹; Katayama, Mitsuhiro¹

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NSP4-88

A platform for characterization of individual single-walled carbon nanotubes

Olofsson, Niklas; Goo-Hwan, Jeong; Campbell, Eleanor E. B.

Göteborgs Universitet, Göteborg, Sweden

NSP4-89

Bulk modulus enhancement in semiconductor nanocrystals

Cherian, Roby¹; Mahadevan, Priya¹; Sarma, D.D²

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NSP4-90

Study for adsorption of metal adatoms on and in CNT using the DFT calculation

Ishii, Akira; Yamamoto, Masana; Asano, Hiroki

Tottori University, Department of Applied Mathematics and Physics, Tottori-City, Japan

NSP4-91

Adsorption of atomic hydrogen on single-walled carbon nanotubes

Jeong, Seong Hun; Jee, Hae-geun; Boo, Jin-Hyo; Lee, Soon-Bo

Sungkyunkwan University, Department of Chemistry, Suwon, Republic of Korea

NSP4-92

Electronic structure and surface chemistry of alkyl-passivated Si nanoparticles

Tanaka, Akinori; Takashima, Naoya; Imamura, Masaki; Murase, Yoshiaki; Yasuda, Hidehiro

Kobe University, Department of Mechanical Engineering, Kobe, Japan

NSP4-93

Raman spectroscopic study on proton-irradiated single-walled carbon nanotubes

Park, June¹; Lee, Min-Baek²; Kim, Kyung-Moon³; Hong, Seunghun²; Cheong, Hyeonsik²; Seong, Maeng-Je¹

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NSP4-94

Surface potential imaging of CNT-FET devices by scanning kelvin probe microscopy

Hosoi, Hiroataka¹; Nakamura, Motonori¹; Sueoka, Kazuhisa²; Mukasa, Koichi¹

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NSP4-95

Size-dependence of electron dynamics in metal clusters

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NSP4-96

Effect of diffusion on nucleation of 2D and 3D nanoclusters

Korolev, Denis; Sorokin, Michael; Volkov, Alexander

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NSP4-97

Chemical control of photoexcited states in titanate nanostructures

Riss, Alexander¹; Berger, Thomas¹; Stankic, Slavica¹; Grothe, Hinrich¹; Bernardi, Johannes²; Diwald, Oliver¹; Knoezinger, Erich¹

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NSP4-98

Electron energy loss spectroscopy of alkylated silicon nanocrystals

Coxon, Paul¹; Chao, Yimin²; Horrocks, Benjamin²; Gass, Mhairi³; Bangert, Urse⁴; Siller, Lidija¹

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NSP4-99

Co nanoplatelets on Ag ($\sqrt{3}\times\sqrt{3}$)/Si(111) surface Studied by scanning tunneling microscopy

Cui, Yitao¹; Kimura, Akio¹; Xie, Tian²; Qiao, Shan²; Namatame, H.²; Taniguchi, Masaki²

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NSP4-100

Single-molecule fluorescence quenching near small metal nanoparticle

Pustovit, V. N.; Shahbazyan, T. V.

Jackson State University, Jackson, MS, United States

NSP4-101

Experiment and theoretical study of electronic correlations in carbon nanotubes and graphite from Auger spectroscopy

Cini, Michele¹; Perfetto, Enrico²; Ugenti, Simona¹; Castrucci, Paola¹; De Crescenzi, Maurizio¹

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NSP4-102

Scanning atom probe study of carbon nanotubes and graphite nano fibers with hydrogen terminated defects

Nishikawa, Osamu¹; Taniguchi, Masahiro¹; Ushirozawa, Mizumoto²

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NSP4-103

Some peculiarities of high emission current from CNT-polymer composite

Popov, E.O.¹; Pashkevich, A.A.¹; Pozdnyakov, O.F.¹; Latypov, Z.Z.²

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NSP4-104

Magnetic and electronic calculations of single-wall carbon nanotubes filled with TM on metal surfaces

David, Melanie¹; Kishi, Tomoya¹; Dino, Wilson Agerico²; Nakanishi, Hiroshi¹; Kasai, Hideaki¹

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NSP4-104B

Crystal and magnetic structure of Mn₃Ni₂OP₆ and Mn₃(Pd_{1-x}Ni_x)₂OP₆

Sahlberg, M¹; Lindell, D¹; Nordblad, P²; André, G³; Andersson, Y¹

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NS - Bionano Sensors and Microfluides

NSP4-105

Electrical and optical DNA detection with gold nanoparticle arrays

Tokonami, Shiho; Nishide, Yukiteru; Shiigi, Hiroshi; Nagaoka, Tsutomu

Osaka Prefecture University, Sakai, Japan

NSP4-106

Interdigitated microelectrode based impedance biosensor for detection of salmonella enteritidis in food samples

Giyoung, Kim¹; Morgan, Mark²; Hahm, Byoung-Kwon²; Bhunia, Arun²; Om, Ae-Son³; Mun, Ji-Hea³

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NSP4-107

Fabrication and characterization of molecularly imprinted self-assembled monolayer

Shiigi, Hiroshi; Matsumoto, Hiroaki; Fukazawa, Satoshi; Nagaoka, Tsutomu

Osaka Prefecture University, Sakai, Japan

NSP4-108

Cancer protein sensing using spectroscopic ellipsometry as surface plasmon resonance mode and atomic force microscopy

Kim, Yoonbok; Jeon, D.

Seoul National University, Physics Education and Nano Systems Institute, Seoul, Republic of Korea

NSP4-109

Electronic properties of surface modified CNT-FET

Takeda, Seiji; Nakamura, Motonori; Ishii, Atsushi; Sueoka, Kazuhisa; Mukasa, Koichi

Hokkaido University, Sapporo, Japan

NSP4-110

Vacuum-evaporated gold nanoparticles optimized for biosensing application

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NSP4-111

optimized thermally-blocked magnetic nanoparticles for biomolecular diagnostics

Fornara, Andrea¹; Petersson, Karolina²; Johansson, Christer²; Krozer, Anatol²; Muhammed, Mamoun¹

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NSP4-112

Odd-mode depletion in microcavity solid-state dye laser

Popov, Sergei¹; Ricciardi, Sebastien¹; Friberg, Ari T.¹; Sergeev, Sergey²

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NSP4-113

Single molecule/label biophysical fluid dynamics near surfaces

Rife, J. C.; Wang, G. M.; Sandberg, W. C.; Whitman, L. J.; Petrovykh, Dmitri; Sheenan, Paul

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NSP4-114

Development of microvalves for gas flow control in micronozzles using PVDF piezoelectric polymer

Wiederkehr, Rodrigo Sergio¹; Salvadori, Maria Cecilia¹; Degasperis, Francisco Tadeu²; Cattani, Mauro¹

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NSP4-115

Micromachined blood oxygen gas analyzer using thin PDMS membrane

Kim, Bumjo; Lim, Geunbae; An, Taechang

POSTECH, Mechanical Engineering, Pohang, Republic of Korea

NSP4-116

Application of nanoparticles in biological cells sorting using dielectrophoresis

Singh, Ragini Raji¹; Ron, Amit¹; Fishelson, Nick¹; Einberg, Alexandra¹; Socher, Rina²; Shur, Irena²; Benayahu, Dafna²; Diamond, Yosi Shacham¹

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NSP4-117

C-TAS: A lab-on-a-chip system for the analysis of chromosomal translocations

Dimaki, Maria; Hyttel Clausen, Casper; Lange, Jacob; Shah, Pranjul; Boye Jensen, Linda; Svendsen, Winnie

Technical University of Denmark, Department of Micro- and Nanotechnology, 2800 Kgs Lyngby, Denmark

NSP4-118

Technological methods for low temperature microfluidic devices microfabrication

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NSP4-119

Bone interface to implants of nanocrystalline diamond at the femoral region

Baranauskas, Vitor¹; Amelia Rodrigues, Ana²; Dias Belangero, William²; Jose Ceragioli, Helder³; Carlos Peterlevitz, Alfredo³

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NSP4-119B

Gold nanoparticles as inducers of cell specific death response

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NS - Biomolecular Interactions and Imaging of Biomolecules

NSP4-120

Viscoelasticity measurement to probe equilibrium and non-equilibrium properties in transformation of single biopolymer chain

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NSP4-121

PNA and PNA-DNA interaction on pyrite surface

Mateo-Marti, Eva¹; Briones, Carlos¹; Gomez-Navarro, Cristina²; Pradier, Claire-Marie³; Martin-Gago, Jose-Ange⁴

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NSP4-122

Controlled adsorption of DNA molecule on self-assembled monolayers: multiscale modelling

Sushko, Maria; Shluger, Alexander

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NSP4-123

SPM genome analysis: direct mapping of BAC clones by SNOM and amplification and sequencing of DNA derived from chromosome nano-fragment dissected by AFM

Sugiyama, Shigeru¹; Tsukamoto, Kazumi¹; Yamauchi, Takeshi¹; Kuwazaki, Seigo²; Yoshino, Tomoyuki³; Sasou, Megumi¹; Takahashi, Hirokazu¹; Narukawa, Junko²; Yamamoto, Kimiko²; Ohtani, Toshio¹

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NSP4-124

Highly precise mapping of linkage markers on a chromosome by simultaneous measurements of two color scanning near-field optical microscope images

Yamauchi, Takeshi¹; Kuwazaki, Seigo²; Suetsugu, Yoshitaka²; Yamamoto, Kimiko²; Ohtani, Toshio¹; Sugiyama, Shigeru¹

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NSP4-125

Recognition of biological molecules by using AFM technique

Ron, Amit¹; Fishelson, Nick¹; Raj Singh, Ragini¹; Socher, Rina²; Benayahu, Dafna²; Shacham-Diamand, Yosi¹

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NSP4-126

Dynamic (Tapping Mode) Atomic Force Microscopy imaging of single DNA molecules: insight on tip-molecule interaction process through nanoscale dissipation spectroscopy

Buzio, Renato¹; Torre, Bruno²; Repetto, Luca¹; Giacomelli, Francesca³; Marciano, Renato³; Ravazzolo, Roberto³; Valbusa, Ugo¹

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NSP4-127

Recovering the large area of chromosome by AFM for genomic analysis

Tsukamoto, Kazumi¹; Kuwazaki, Seigo²; Yamamoto, Kimiko²; Ohtani, Toshio³; Sugiyama, Shigeru³

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NSP4-128

Microcontact printing of cytophilic proteins for cell patterning and imaging of the patterns by scanning probes

Jo, William; Oh, Y. J.

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NSP4-129

Effect of pore size and 3D structure of honeycomb-patterned polymer films on the initial spreading process of endothelial cells

Yamamoto, Sadaaki¹; Tanaka, Masaru²; Sunami, Hiroshi¹; Ito, Emiko³; Morita, Yuka¹; Ijro, Kuniharu²; Shimomura, Masatsugu²

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NSP4-130

Chromatin dynamics of unfolding and refolding controlled by the nucleosome repeat length and the linker and core histones

Kobori, Toshiro¹; Iwamoto, Satoshi²; Takeyasu, Kunio³; Ohtani, Toshio¹

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NSP4-131

Creation of a new linkage marker using nucleotide sequence information from a nano-size chromosome fragment dissected by AFM

Yamamoto, Kimiko¹; Suetsugu, Yoshitaka¹; Kuwazaki, Seigo¹; Yamauchi, Takeshi²; Tsukamoto, Kazum²; Narukawa, Junko¹; Ohtani, Toshio²; Sugiyama, Shigeru²

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NSP4-132

Development of novel karyotyping method based on atomic force microscopy

Suetsugu, Yoshitaka¹; Tsukamoto, Kazum²; Kuwazaki, Seigo¹; Narukawa, Junko¹; Sugiyama, Shigeru²; Ohtani, Toshio²; Yamamoto, Kimiko¹

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NSP4-133

Pattern formation of antifreeze glyco-proteins

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NSP4-134

AFM for DNA-based glyco-chip characterization on a molecular scale

Phaner-Goutorbe, Magali¹; Lallemand, David¹; Chevlot, Yann¹; Morvan, F²; Meyer, A²; Vidal, S³; Jochum, A³; Praly, J.P³; Cloarec, J. P¹; Vasseur, J. J.⁴; Souteyrand, Eliane¹

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NSP4-135

Analysis of cytoskeletal features in dried and living cells and slow dynamic experiments using atomic force microscopy

Watson, Jolanta; Watson, Gregory

Griffith University, School of Biomolecular & Physical Sciences, Nathan, Australia

NSP4-135B

Comparing analogs affinity to bind with nuclear receptors based on molecular dynamic modulation

Hossein-nezhad, Arash¹; Ahangari, Ghasem²; Larijani, Bagher³

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PST/F: Fusion

PSTFP4-136

Implications of disruption mitigation for the ITER vacuum system

Baylor, Larry; Jernigan, Thomas; Rasmussen, David

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PSTFP4-137

Lateral mapping of hydrogen isotopes in the carbon-based materials exposed in tokamak TEXTOR using focused ion beams

Primoz, Pelicon¹; Cadez, Iztok¹; Simcic, Jurij¹; Markelj, Sabina¹; Brezinsek, Sebastijan²; Kreter, Arkad²; Litnovsky, Andrey M.²; Philipps, Volker²; Rubel, Marek³

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PSTFP4-138

Mapping of hydrogen isotope distribution with an ion microprobe

Petersson, Per¹; Jensen, Jens¹; Possnert, Göran¹; Hallén, Anders²

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PSTFP4-139

Deuterium retention in different carbon materials exposed in TEXTOR

Kreter, A.¹; Brezinsek, S.¹; Rubel, M.²; Emmoth, B.³; Freisinger, M.¹; Pelicon, P.⁴; Philipps, V.¹; Schmitz, O.¹; Sundelin, P.²; Sergienko, G.¹

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PSTFP4-140

Beryllium plasma-facing components for the ITER-like wall project at JET

Rubel, M.J.¹; Hirai, T.²; Coad, J.P.³; Linke, J.²; Pedrick, L.³; Matthews, G.F.³; Sundelin, P.¹; Lungu, C.P.⁴; Villedieu, E.³

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PSTFP4-141

Metal impurity fluxes and plasma-surface interactions in EXTRAP T2R

Bergsaker, Henrik¹; Menmuir, Sheena²; Rachlew, Elisabeth²; Brunsell, Per³; Frassinetti, Lorenzo⁴; Drake, James⁵

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PSTFP4-142

Physical and chemical studies of the removal of hydrogenated carbon films by nitrogen glow discharges

Ferreira, Jose Antonio; Tabarés, Francisco L.

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PSTFP4-143

Hydrogen retention in diamond

de Rooij, Dagmar; Kleyn, A.W.; Goedheer, W.J.

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PSTFP4-144

A collision dynamics study on the H atom recombination on a W(001) surface

Rutigliano, Maria; Cacciatore, Mario

CNR, Institute of Inorganic Methodologies and Plasmas, Bari, Italy

PSTFP4-145

Be-W films preparation and characterization

Lungu, P. Cristian¹; Mustata, Ion¹; Anghel, Alexandru¹; Lungu, Ana Mihaela¹; Pompilian, Oana¹; Dutu, Elena¹; Morjan, Ion¹; Minea, Radu¹; Oproiu, Constantin¹; Dudu, Dorin²; Ivanov, Eugeniu²; Vata, Ion²; Logofatu, Constantin²; Negrila, Catalin³; Lazarescu, Miha³; Miculescu, Florin⁴

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PSTFP4-146

Modification of plasma facing materials in controlled fusion devices

Sundelin, P.¹; Marek, M J.²; Emmoth, B.²; Sergienko, G.³; Wessel, E.⁴

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PSTFP4-147

Impact ionization processes in Frascati Tokamak Upgrade scrape-off layer

Ratynskaia, Svetlana¹; Annibaldi, S V.¹; Castaldo, C.²; Morfill, G.³; Rypdal, K.⁴; de Angelis, U.⁵; Pericoli Ridolfini, V.⁶; Rufoloni, A.²

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PSTFP4-148

Development of an ITER relevant inspection robot with vacuum and temperature constraints

Hatchressian, Jean-claude¹; Bruno, Vincent¹; Gargiulo, Laurent¹; Keller, Delphine²; Le, Roland¹; Perrot, Yann²; Soler, Bernard¹; Bayetti, Pascal¹; Cordier, Jean-jacques³; Friconneau, Jean-pierre²; Samaille, Frank¹

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PSTFP4-149

Apparatus for friction tests of support elements in fusion devices

Gradt, Thomas¹; Boerner, Helmut¹; Schneider, Thomas¹; Assmus, Kristin²

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PSTFP4-150

DC glow discharge conditioning of remote areas in fusion devices

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PSTFP4-151

Chemical erosion of graphite (0001) surfaces with thermal H and D.

Zecho, Thomas¹; Fischer, Christian²; Ehrenhaft, Gitta²; Küppers, Jürgen¹

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PST/F: Plasma Science and Technology

PSTFP4-152

Nanocomposite ti/hydrocarbon plasma polymer films from reactive magnetron sputtering as growth supports for osteoblast-like and endothelial cells

Grinevich, Andrey¹; Choukourov, Andrey¹; Pihosh, Yuriy²; Noskova, L.³; Biederman, Hynek¹; Bacakova, Lucie³; Skuciova, M.³; Lisa, V.³

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PSTFP4-153

Deposition of Silicon-like hybrid films by PECVD on Carbon Fiber Reinforced Polymers for high-precision engineering applications

Cremona, Anna¹; Vassallo, Espedito¹; Laguardia, Laura¹; Merlo, Angelo²; Phani, Srikantha³

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PSTFP4-154

Rapid thermal annealing approach for stress-free and transparent tetrahedral amorphous carbon films

Abbas, Gamal; Papakonstantinou, Pagona; McLaughlin, Jim

University of Ulster, Nanotechnology & Integrated Bio-Engineering Centre, Newtownabbey, United Kingdom

PSTFP4-155

UHV plasma jet system for deposition of magnetic nitride nanocomposite films with GHz applications

Fendrych, Frantisek¹; Repa, Petr²; Peksa, Ladislav²; Poltirova Vejpravova, Jana³; Lancok, Adriana⁴; Kraus, Ludek¹; Chayka, Oleksander¹; Schaefer, Rudolf⁵; Hedbavny, Pavel⁶

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PSTFP4-156

Rapid transport of nano-particles in amplitude modulated rf discharges for depositing ultra low-k porous films

Iwashita, Shinya¹; Koga, Kazunori¹; Shiratani, Masaharu¹; Nunomura, Shota²

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PSTFP4-157

Characterization of O₂/HMDSO RF plasmas for material processing

Barni, Ruggero; Zanini, Stefano; Riccardi, Claudia

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PSTFP4-158

The influence of structural ordering on DC conductivity of the amorphous-nano-crystalline silicon thin films

Gracin, Davor; Etlinger, Bozidar; Juraic, Krunoslav; Gajovic, Andrea
Rudjer Boskovic Institute, Zagreb, Croatia

PSTFP4-159

Anisotropic deposition of Cu films using H-assisted plasma CVD

Umetsu, Jun¹; Koga, Kazunori¹; Shiratani, Masaharu¹; Takanaka, Kosuke²

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PSTFP4-160

Optically active plasma polymers and nanocomposites for the fabrication of photonic devices

Aparicio, Francisco; Blaszczyk, Iwona; Barranco, Angel; Gonzalez-Elipe, Agustin R.
CSIC-Univ. Sevilla, Instituto de Ciencia de Materiales de Sevilla, Sevilla, Spain

PSTFP4-161

Characterization of composite Sn/hydrocarbon plasma polymer films prepared by RF magnetron deposition

Pavlik, Jaroslav¹; Matousek, Jindrich¹; Stryhal, Zdenek¹; Vagner, Tomas¹; Zoulova, Anna¹; Hedbavny, Pavel²

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PSTFP4-162

3D Particle simulations of plasma-solid interaction: magnetized plasma and a cylindrical cavity

Pekarek, Zdenek; Roucka, Stepan; Hrach, Rudolf

MFF UK, Department of Surface and Plasma Science, Prague, Czech Republic

PSTFP4-163

Investigations of paper structure modified by plasma and radio wave treatment

Filatova, Irina¹; Azharonok, Viktor¹; Fomin, Nikita²; Bazylev, Nikola²; Lavinskaya, Elena²; Dlugunovich, Vjacheslav²; Tsaruk, Oleg³; Voschula, Igor³

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PSTFP4-164

Oxidation of Ru films by O₂ plasma and reduction of Ru oxides by hydrogen plasma

Iwasaki, Yoshinori¹; Izumi, Akira¹; Tsurumaki, Hiroshi¹; Namiki, Akira¹; Oizumi, Hiroaki²; Nishiyama, Iwao²

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PSTFP4-165

Surface-state electron transfer: an alternative breakdown model

Ledernez, Loic; Yasuda, Hirostugu; Olcaytug, Fethi; Urban, Gerald

University of Freiburg, IMTEK, Sensoren, Freiburg, Germany

PSTFP4-166

An influence of ion and sputtered atom flows inhomogeneity on time evolution of the target surface relief in glow discharge

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PSTFP4-167

Gold nanoparticles synthesized by cold plasma in aqueous system

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PSTFP4-168

Investigation of plasma-assisted decomposition of volatile organic compounds

Filatov, Leonid; Alexandrov, Sergey

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PSTFP4-169

Pulsed high voltage DBD reactor for methane cracking with Ar plasma at atmospheric pressure

Spinicchia, Nicolo¹; Cignoli, Francesco²; De Angeli, Marco²; Gervasini, Gabriele¹; Gittini, Giuseppe¹; Nardone, Antonio¹

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PSTFP4-170

NOx removal enhancement by a jerks-and-jumps type electrode in a dielectric barrier discharge

Mercado-Cabrera, Antonio¹; León del Villar, Eliseo¹; Valencia-Alvarado, Raul¹; López-Callejas, Regulo¹; Barocio, Samuel R.¹; Peña-Eguiluz, Rosendo¹; Muñoz-Castro, Arturo¹; De la Piedad-Beneitez, Aniba²

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PSTFP4-171

Fundamental studies on effect of ozone injection to the internal-combustion engine - FTIR spectra of hydrocarbon compound exposed to ozone -

Yagyu, Yoshihito¹; Nobuya, Hayashi²; Kawasaki, Hiroharu¹; Ohshima, Tamiko¹; Suda, Yoshiaki¹; Baba, Seiji³

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PSTFP4-172

Acoustic signal analysis in the creeping discharge

Nakamiya, Toshiyuki¹; Ebihara, Kenji²; Ikegami, Tomoaki²; Sonoda, Yoshito¹; Tsuda, Ryoichi¹

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PSTFP4-173

Synthesis of nano-powder materials in atmospheric-pressure non-thermal plasma

Alexandrov, Sergey; Filatov, Leonid; Mishin, Maxim

Saint-Petersburg State Polytechnical University, Faculty of Materials Research and Technology, Saint-Petersburg, Russian Federation

PSTFP4-174

Microjet plasma discharges: An experimental investigation in view of a plasma-wall diagnostic application

Ghezzi, Francesco¹; Zajec, Bojan²

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PSTFP4-175

Protein film removal by means of low-pressure microwave plasma

Kylian, Ondrej; Rauscher, Hubert; Sirghi, Lucel; Rossi, Francois

European Commission, DG Joint Research Centre, Institute for Health and Consumer Protection, Ispra (VA), Italy

PSTFP4-176

On the application of digital signal processing for studying optical emission spectra generated during the process of TiAlN coatings production

Restrepo-Parra, Elisabeth¹; Riaño-Rojas, Juan Carlos²; Andres Felipe, Serna³; David, Cárdenas³; Prieto-Ortiz, Flavio Augusto³

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PSTFP4-177

Plasma parameters in a planar dc magnetron sputtering discharge

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PSTFP4-178

V-I curves and plasma parameters in a high density DC glow discharge generated by a current-source

Granda-Gutierrez, Everardo Efrén¹; Lopez-Callejas, Regulo²; Peña-Eguiluz, Rosendo²; Valencia-Alvarado, Raul²; Mercado-Cabrera, Antonio²; Barocio, Samuel Roberto²; de la Piedad-Beneitez, Anibal¹; Benitez-Read, Jorge Samue²; Pacheco-Sotelo, Joel Osvaldo²

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PSTFP4-179

A real-time in-situ micro charging diagnostic for plasma monitoring and surface charging in plasmas for particle removal

Ritz, Eithan; Lytle, Wayne; Neumann, Martin; Srivastava, Shailendra; Ruzic, David

University of Illinois, Center for Plasma Material Interactions, Urbana, United States

PSTFP4-180

Laser ablation and EUV plasma technology: VUV - near IR emissive properties of ablative polymeric materials in vacuum

Christoforov, Vladimir V.; Protasov, Yury Yu.

Bauman Moscow State Technical University, Power Engineering, Moscow, Russian Federation

PSTFP4-181

Effects of additive gas on reactive ion etching of hafnium oxide thin film in inductively coupled plasma

Kim, Gwan-Ha; Kim, Kyoung-Tae; Kim, Chang-Il

Chung-Ang university, School of electrical and electronic engineering, Seoul, Republic of Korea

PSTFP4-182

SF6 replacement in dry etching technology for IC development and manufacturing conforming to environmental strategy

Pistoni, Mario Franchesco; Bianchi, Irene

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PSTFP4-183

Improving the etch selectivity of BLT thin films over Si wafer by using inductively coupled plasma sources

Kim, Jong-Gyu; Kim, Gwan-Ha; Kim, Kyoung-Tae; Woo, Jong-Chang; Kim, Chang-Il

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PSTFP4-184

The etching mechanism of zinc oxide thin films for optoelectronics device application using inductively coupled plasma

Woo, Jong-Chang; Kim, Kyoung-Tae; Kim, Gwan-Ha; Kim, Jong-Gyu; Kim, Chang-Il

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PSTFP4-185

Etching characteristics of Na_{0.5}K_{0.5}NbO₃ film using inductively coupled plasma

Kang, Byeong-Geun; Kim, Kyoung-Tae; Kim, Jong-Gyu; Woo, Jong-Chang; Kim, Chang-Il

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PSTFP4-186

Dry etching of P(VDF-TrFE) multilayer micro actuator structures by the use of an ICP

Edqvist, Erik

Institutionen för Teknikvetenskaper, Materialvetenskapliga avdelningen, Uppsala, Sweden

PSTFP4-187

Plasma characterization of H₂O- inductively coupled plasma for dry etching

Matsutani, Akihiro¹; Ohtsuki, Hideo²; Koyama, Fumio¹

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PSTFP4-188

Plasma Generation by RF Penning Discharge in Comparison with ECR Discharge for Surface Cleaning

Cherenshchikov, Sergiy; Solodovchenko, Sergiy; Shtan, Anatoliy; Ryzhkov, Ivan

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PSTFP4-189

LITMAS – an industrial remote plasma source for materials processing: Technology and applications

Krause, Dr. Uwe¹; Linz, Thomas¹; Quinn, Colin²

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PSTFP4-190

Material surface modification with an inductive plasma

Croccolo, Fabrizio; Barni, Ruggero; Zanini, Stefano; Riccardi, Claudia

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PSTFP4-191

Gas arresters of high efficiency

Pregelj, Andrej¹; Brecej, Andrej¹; Murko, Vladimir²; Vukotić, Milenko³; Jelja, Nikola⁴; Štagoj, Aleš¹

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PSTFP4-192

Investigation of Plasma Etching of CVD Diamond Film

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PSTFP4-193

Dry Etching of SiC by O₂/CF₄ Plasma

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PSTFP4-194

Surface analysis by plasma assisted desorption ionisation (PADI) mass spectrometry

Whitmore, Terry¹; Aranda-Gonzalvo, Yolanda¹; Greenwood, Claire¹; Rees, Alan¹; Ratcliffe, Lucy²; Barrett, David²; Rutten, Frank²; McCoustra, Martin⁴

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PSTFP4-194B

Comparoson between Electron irradiation and Ion implantation on Polypropylene fabrics

Shahidi, Sheila; Ghorannevis, Mahmood

Islamic Azad University, Plasma Physics Research Center, Tehran, Islamic Republic of Iran

PSTFP4-194C

Ion-nitriding of maraging steel (250 Grade) for aeronautical application

Shetty, Kishora¹; Kumar, Subodh²; Rao, Raghothama¹

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SS - Surface Electronic Structure and Strongly Correlated Systems

SSP4-195

Electronic structure properties of hydrogen nanochains on HOPG

Podaru, Nicolae Catalin¹; Štjivan anin, Željko²; Flipse, C.F.J.¹

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SSP4-196

Probing electron correlation effects of Ni(111) with STM

Flipse, Kees

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SSP4-197

The line shape of L₂-L₂₃M_{4,5}-M_{4,5}M_{4,5}(M_{4,5}) satellites in the Auger spectra of solids

Cini, Michele¹; Ugenti, Simona¹; Perfetto, Enrico²

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SSP4-198

Studies of collective excitations in MnO and CoO by resonant inelastic X-ray scattering at the O 1s resonance

Schmitt, Thorsten¹; Duda, Lauren²; Strocov, Vladimir¹; Magnuson, Martin²; Nordgren, Joseph²; Okada, Kozo³; Kotani, Akio⁴

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SSP4-199

Electronic structure of thin ytterbium layers on W(110)

Dedkov, Yury¹; Vyalikh, Denis¹; Holder, Matthias¹; Weser, Martin¹; Molodtsov, Serguei¹; Laubschat, Clemens¹; Kucherenko, Yury²; Fonin, Mikhail³

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SSP4-200

Doping dependence of the electronic structure in La_{1-x}Sr_xCuO₄ as determined by angle resolved photoelectron spectroscopy

Månsson, Martin¹; Claesson, Thomas¹; Pailhès, Stéphane²; Chang, Johan²; Mesot, Joël²; Shi, Ming³; Patthey, Luc³; Momono, Naoki⁴; Oda, Migaku⁴; Ido, Masayuki⁴; Voigt, Jörg⁵; Lipscombe, Oliver⁶; Hayden, Stephen M.⁶; Tjernberg, Oscar¹

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SSP4-201

The electronic structure of $\text{La}_{1.48}\text{Nd}_{0.4}\text{Sr}_{0.12}\text{CuO}_4$ probed by high- and low-energy angle resolved photoemission

Claesson, Thomas¹; Månsson, Martin¹; Önsten, Anneli¹; Muro, Takayuki²; Matsushita, Tomohiro²; Nakamura, Tatsuya²; Kinoshita, Toyohiko²; Pailhès, Stéphane³; Chang, Johan³; Mesot, Joe⁴; Sassa, Yasmine³; Bendounan, Azzedine³; Shi, Ming⁴; Patthey, Luc⁴; Momono, Naoki⁵; Oda, Migaku⁵; Ido, Masayuki⁵; Tjernberg, Oskar⁶

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SSP4-202

One-dimensional Au chains on TiO₂(110)

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SS - Photon or Electron Induced and Ultrafast Processes

SSP4-203

Surface optical solitons in semiconductor quantum dots

Adamashvili, Guram; Knorr, Andreas

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SSP4-204

Effect of photon activation in the formation of silicides in the system Si-Ni-Pt (111)

Ievlev, Valentin¹; Soldatenko, Sergey²; Kushev, Sergey²; Gorozhankin, Yuriy²

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SSP4-205

Electrical properties of the diamond like carbon films irradiated with high energy photons

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SSP4-206

Phase composition and structure of the layers formed during the pulse photon treatment of the heterostructure Si-C

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SSP4-207

Bias-voltage induced surface reaction of para-nitrobenzoic acid adsorbed on Ag/AlO_x/Al tunnel junction

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SS - Phase Transitions, Statistical Mechanics and Thermodynamics

SSP4-208

Structural phase transitions in chlorine monolayer on Cu(110)

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SSP4-209

Oxidation of palladium and platinum surfaces

Seriani, Nicola¹; Mittendorfer, Florian¹; Dubay, Orest¹; Kresse, Georg¹; Klikovits, Jan²; Napetschnig, Evelyn²; Schmid, Michael²; Varga, Peter²; Westerstrom, Rasmus³; Lundgren, Edvin³

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SSP4-210

The modified embedded atom method with DFT-based parameters for a successful description of surface segregation in metallic alloys

Luyten, Jan; Schurmans, Maarten; Creemers, Claude

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SSP4-211

Domino Effect in Light Induced Molecular Movements of Highly Ordered Azobenzene SAMs

PACE, Giuseppina¹; Samori, Paolo²; Ferri, Violetta³; Rampi, Maria Anita³; Elbing, Mark⁴; Mayor, Marcel⁵; Zharnikov, Michael⁶

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SSP4-212

Wigner crystallization theory of electrons on quantum liquid surface and Landau-Silin fermi-liquid approach

Lytvynenko, Dmytro; Slyusarenko, Yuriy

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SSP4-213

Surface segregation in CuPt alloys by means of an improved modified embedded atom method

Schurmans, Maarten¹; Luyten, Jan¹; Creemers, Claude¹; Reinout, Declerck²; Waroquier, Michel²

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SSP4-214

Water molecules in clay minerals : adsorption, thermodynamic functions and glass transitions

Olives, Juan¹; Gailhanou, Helene²; Rogez, Jacques³; van Miltenburg, J. C.⁴; van den Berg, G. J. K.⁴; De Weireld, G.⁵; Belmabkhout, Y.⁵; Amouric, M.¹; Gaucher, E.²; Blanc, P.²

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SSP4-215

Atomic displacements and electronic properties for 4x1-8x2 phase transition of in adsorbed Si(111) surface

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SSP4-216

Modelling of phase transitions and reaction between coadsorbed oxygen and hydrogen on Pd(111)

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SSP4-217

Interphase mass-transfer processes in magnesium aluminate ceramics probed with combined XRD and high-resolution XPS methods

Klym, Halyna¹; Shpotyuk, Oleh¹; Hadzaman, Ivan¹; Vakiv, Mykola¹; Jain, Himanshu²

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SSP4-218

Segregation in ternary Pt-Pd-Rh alloys studied with Monte Carlo simulations and the modified embedded atom method

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SSP4-219

Two melting regimes for copper nanoparticles in silica matrix: size dependence

Yeshchenko, Oleg¹; Dmitruk, Igor¹; Alexeenko, Alexandr²; Dmytruk, Andriy³

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SSP4-220

Temperature dependence of surface states with $3 \times 3 \rightarrow \sqrt{3} \times \sqrt{3}$ phase transition on Sn or Pb adsorbed Si or Ge (111) surface

Kakitani, Kiminori¹; Kaji, Hiroko²; Yagi, Yoichiro³; Osanaga, Shingo¹

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SSP4-221

Model for hydrogen-induced Sb atom reconstruction $\sqrt{3} \times \sqrt{3} \rightarrow 2 \times 1$ on Si(111)

Petrauskas, Vytautas; Tornau, Evaldas E.

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SS - Sliding Friction, Tribology, Fracture

SSP4-222

Dependence of the particle emission during the fracture of silica glass on its mechanical property

Shiota, Tadashi; Yasuda, Kouichi; Matsuo, Yohtarō

Tokyo Institute of Technology, Department of Metallurgy and Ceramics Science, Tokyo, Japan

SSP4-223

Direct detection of lateral force gradient field

Kawai, Shigeki¹; Sasaki, Naruo²; Hug, Hans J.³; Kawakatsu, Hideki⁴

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SSP4-224

Water intercalation into graphite

Fredriksson, Hans; Ketteler, Guido; Kasemo, Bengt; Chakarov, Dinko

Chalmers University of Technology, Applied Physics, Göteborg, Sverige

SSP4-225

Influence of the temperature on the tribological behaviour of PEEK composites in vacuum environment

Theiler, Géraldine; Gradt, Thomas

Federal Institute for Materials Research & Testing, Tribology and Wear Protection, Berlin, Germany

SSP4-226

Mechanism of velocity saturation and lateral resonance in atomic-scale sliding friction

Igarashi, Masanori; Nakamura, Jun; Natori, Akiko

The University of Electro-Communications, Department of Electronic-Engineering, Tokyo, Japan

SSP4-226B

System of TMP monitoring and failure predicting

Demikhov, Konstantin¹; Basmanov M.S., Michael²; Ivchenko, Evgeny²; Anyskin, Evgeny²

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SS - Small Particles, Clusters and Novel Structures

SSP4-227

The adsorption of Ta on Si (111)/(7x7) surface: interface formation

Shukryna, Pavel; Svec, Martin; Mutombo, Pingo; Chab, Vladimir

Institute of Physics Academy of Sciences, Prague, Czech Republic

SSP4-228

Nanodiamond composite as a material for cold electron emitters

Arhipov, Alexander¹; Gordeev, Sergey²; Korchagina, Svetlana²; Sominski, Guennadi¹; Uvarov, Andrei¹

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SSP4-229

The morphology of mesoscopic metal particles under oxidizing conditions

Mittendorfer, Florian; Seriani, Nicola; Kresse, Georg

University of Vienna, Institut fuer Materialphysik, Vienna, Austria

SSP4-230

Simulation of growth process of Pt-particles — First-principles calculations —

Okazaki-Maeda, Kazuyuki¹; Yamakawa, Shunsuke²; Morikawa, Yoshitada³; Akita, Tomoki⁴; Tanaka, Shingo⁴; Hyodo, Shi-aki²; Kohyama, Masanori⁴

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SSP4-231

Self alignment of laser ablated Pd clusters on Au(111)

Casari, Carlo S.; Li Bassi, Andrea; Cattaneo, Diego; Gusmini, Fabio; Foglio, Stefano; Passoni, Matteo; Bottani, Carlo E.

Politecnico di Milano, Nuclear Engineering, Milan, Italy

SSP4-232

Effect of transition metals on oxygen precipitation in silicon

Talvitie, Heli; Haarahiltunen, Antti; Yli-Koski, Marko; Savin, Hele; Sinkkonen, Juha
Helsinki University of Technology, Helsinki, Finland

SSP4-233

Equilibrium shapes of supported heteroepitaxial nanoislands in two dimensions

Jalkanen, Jari¹; Trushin, Oleg²; Granato, Enzo³; Ying, See-Chen⁴; Ala-Nissilä, Tapio¹

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SSP4-234

Solution processing of complex large band-gap semi-conductors for photo-catalysis

Westin, Gunnar¹; Leideborg, Michael¹; Österlund, Lars²; Jansson, Kjell³; Sandell, Anders⁴; Karis, Olof¹; Vayssieres, Lionel⁵

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SSP4-235

Electrodynamic response of small particles system over substrate in external electric field

Leonid, Grechko¹; Lubov, Kunytska¹; Magnus, Willander²; Magnus, Karlsteen²; Oleksandr, SEMchuk³

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SSP4-236

Resonant nano-particles spheres as a component of nano-circuits

Zolanvar, Ali; Khalili, Hassan; Sadeghi, Hossein

University of Arak, Physics, Arak, Islamic Republic of Iran

SSP4-237

Growth and study of 3d metal nanoparticles films deposited on inert substrates

D'Addato, Sergio; Gragnaniello, Luca; di Bona, Alessandro; Rota, Alberto; Valeri, Sergio

INFN-CNR S3 Centre and Università di Modena, Modena, Italy

SSP4-238

Optical properties of cluster-based titanium and titanium oxide films

Tarras-Wahlberg, Nils; Andersson, Mats; Rosén, Arne

Göteborg University, Department of Physics, Göteborg, Sweden

SSP4-239

The regularities of self-organization for the atomic structure of interphase boundary in the heterosystem crystal-nanoparticle

Evtsev, Alexander¹; Ievlev, Valentin²; Kosilov, Alexander³; Prizhimov, Andrey⁴

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SSP4-240

Effect of surface phenomena on condensational growth of nanoscale aerosol particles

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SSP4-241

Solution route to Co-Cu nano-composites

Kvist, Ulrika; Pohl, Annika; Ekstrand, Åsa; Westin, Gunnar; Ottosson, Mikael; Svedlindh, Peter; Bijelovic, Stojanka

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SSP4-242

Mechanical behavior of epoxy-based composites reinforced with Multi-walled carbon nanotubes

Mathur, R.B.¹; Chatterjee, Sourav¹; Verma, G.L.²; Singh, B.P.³

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TF/SE Joint: Functional Oxide Thin Films

TFSEP4-243

La_xAl_{2-x}O₃ films deposited by spray pyrolysis

Falcony, Ciro¹; Carmona, Salvador²; Garcia-Hipolito, Manuel³

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TFSEP4-244

Epitaxial growth of single crystal co: ZnO thin films on Al2O3 wafer by magnetron co-sputtering

Pan, Feng; Song, Cheng; Liu, Xuejing; Zeng, Fei

Tsinghua University, Department of Materials Science and Engineering, Beijing, China

TFSEP4-245

The influence of amorphous Al₂O₃ layers on the hydrogen uptake of materials

Wang, Yuntao; Pálsson, Gunnar; Raanaei, Hossein; Hjörvarsson, Björgvin

Uppsala University, Department of Physics, Uppsala, Sweden

TFSEP4-246

The effects of surface modification of thin film luminescent materials prepared by rf magnetron sputtering

Kim, Joo Won¹; Song, Hyundon¹; Chung, Sung Mook²; Kim, Young Jin¹

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TFSEP4-247

Abstract withdrawn

TFSEP4-248

Preparation and characterization of SnO₂ films for sensing applications

Stefanov, Plamen¹; Atanasova, Genoveva¹; Manolov, Emil²; Raicheva, Zdravka²; Lazarova, Velichka²

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TFSEP4-249

The SiO₂ coating on sulfide phosphor for improved stability and luminescent properties

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TFSEP4-250

Abstract withdrawn

TFSEP4-251

Pulsed laser deposition of nanostructured titanium oxide: Towards tailored structure and morphology

Fusi, Matteo; Di Fonzo, Fabio; Casari, Carlo S.; Li Bassi, Andrea; Bottani, Carlo E.

Politecnico di Milano, Nuclear Engineering, Milan, Italy

TFSEP4-252

Nonvolatile resistance switching in Au/V₂O₅/SiO₂/Si junctions

Velichko, Andrey¹; Savoini, Matteo²; Grishin, Alex²

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TFSEP4-253

Hydrogen assisted growth of magnetic layers

Liebig, Andreas¹; Hjörvarsson, Björgvin¹; Remhof, Arnd²; Nowak, Gregor²; Zabel, Hartmut²; Lidbaum, Hans³; Leifer, Klaus⁴

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TFSEP4-254

Thermal annealing based optimization of Ta₂N thin films in microwave submount for 40 Gb/s optoelectronic devices

Xiong, Bing; Wang, Yujie; Zhang, Mingjun; Sun, Changzheng; Luo, Yi

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TF/SE - Optical Coatings

TFSEP4-255

Tailoring optical properties of pulsed laser deposited TiO₂ films

Dzibrrou, D.¹; Kawasaki, H.¹; Grishin, A.M.¹; Suda, Y.²; Pankov, V.V.³

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TFSEP4-256

FTIR and XPS investigations of a-SiO_xN_y thin films structure

Rebib, Farida¹; Tomasella, Eric¹; Beche, Eric²; Cellier, Joel¹; Jacquet, Michel¹

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TFSEP4-257

Synthesis and characterization of an organic-inorganic hybrid nanocoating based on polyacrylic-silica (PAC-Si) as an optical host for laser dyes

Aghili, Yasaman¹; Mohseni, Mohsen¹; Ganjaee, Morteza¹; Mohajerani, Ezzeddin²; Moradian, Siamak¹

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TFSEP4-258

Luminescent properties of Eu-doped La₂O₃ films deposited by ultrasonic spray pyrolysis

Medina, Dulce Yolotzin¹; Hernandez-Lopez, Roberto Tito¹; Falcony, Ciro²; Meza, Jesus Salvador³

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TFSEP4-259

Structural and optical properties of TiO₂ films prepared by MF magnetron sputtering for optical applications

DUAN, Yongli¹; XU, Sheng²; BA, Dechun³; FAN, Chuizhen²; GAO, Wenbo²

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TFSEP4-260

Antireflection coatings for chalcogenide glass

Na, Jin; Junqi, Xu; Weiguo, Liu

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TFSEP4-261

Determination of optical properties of a-SiO_xN_y thin films by ellipsometric and uv-vis spectroscopies

Rebib, Farida¹; Tomasella, Eric¹; Gaston, Jean Pierre²; Eypert, Céline³; Cellier, Joel¹; Jacquet, Michel¹

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TFSEP4-262

Heterometallic alkoxides as precursors to Er-doped flat and fibre wave guides

Westin, Gunnar¹; Lashgari, Koroush¹; Kritikos, Mikael²; Edvardsson, Sverker³; Engholm, Magnus⁴; Norin, Lars⁵

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TFSEP4-263

Envelopes method of reflection and transmission spectra under a multibeam interference for two-film structures parameters measurement.

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TFSEP4-264

Characterization of luminescent Praseodymium-Doped ZrO₂ coatings deposited by ultrasonic spray pyrolysis technique

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TFSEP4-265

Investigation of dependency of deposition rate and reflection power of Aluminum thin films on sputtering parameters

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TFSEP4-266

Electrochromism in nickel oxide thin films: A comparison between ion intercalation from different electrolytes

Green, Sara; Backholm, Jonas; Niklasson, Gunnar

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TFSEP4-266B

A dual-deposition setup for fabricating size-selected Pd nanoparticles/ Pr thin film structure for switchable mirror application

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TF/SE: Advances in situ and ex situ Thin Film Characterization

TFSEP4-267

Negative admittance in resistive metal oxide gas sensors

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TFSEP4-268

The characteristics of re-crystallized low-temperature- grown Ge films on SiO₂ substrate

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TFSEP4-269

Relaxation behaviour of the Al-based amorphous thin films

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TFSEP4-270

TEM of lattice bending in crystallized areas of anodized Ta-O films

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TFSEP4-271

In situ infrared spectroscopy of metal film growth

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TFSEP4-272

Investigation of corrosion of PVD coatings by electrochemical methods and FIB

Kek Merl, Darja; Panjan, Peter; Blazevic, Edita; Panjan, Matjaz; Cekada, Miha; Milosev, Ingrid

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TFSEP4-273

Depth profiling of Ni-P compositionally modulated multilayer films deposited by electroplating technique

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VST - Large Vacuum Systems and Special Vacuum Issues

VSTP4-274

Vacuum system design of third generation synchrotron radiation source PETRA III

Seidel, M.¹; Zapfe, K.²; Nagorny, B.²; Boespflug, R.²; Boster, J.²; Giesske, W.²; Keese, D.²; Tiessen, J.²; Naujoks, U.²; Koehler, R.²; Schulz, E.²; Wedekind, H. P.²; Mildner, N.²; Remde, H.²

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VSTP4-275

Vacuum design for the 3 GeV TPS synchrotron light source

Hsiung, G. Y.¹; Chan, C. K.¹; Chang, C. C.¹; Chen, Y. B.¹; Hsueh, H. P.¹; Chen, C. L.¹; Yang, C. Y.¹; Hsu, S. N.¹; Cheng, C. M.¹; Kuan, C. K.¹; Sheng, I. C.¹; Chen, J. R.²

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VSTP4-276

The vacuum design for the focal plane detector (FPD) of KATRIN

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VSTP4-277

Simulations of the pressure profile in the petra III frontends

Amann, Christian; Hahn, Ulrich; Horst, Schulte-Schrepping

DESY, FS-BT, Hamburg, Germany

VSTP4-278

Simulation of transmission efficiency of ion beams for design of the vacuum system of the DC-60 cyclotron

Tikhomirov, Alexander; Gikal, Boris; Gulbekian, George

Joint Institute for Nuclear Research, FLNR, Accelerator Department, Dubna, Moscow region, Russian Federation

VSTP4-279

Pressure profile and its gradient field distribution in a dipole vacuum chamber at LNLS storage ring

Degasperi, Francisco Tadeu¹; Seraphim, Rafael Molena²; Ferreira, Marcelo Jun²; Pauletti, Ruy Marcelo de O.³

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VSTP4-280

FERMI@Elettra: some details and particular aspects of the vacuum system

Rumiz, Luca; Trovo, Mauro; Penco, Giuseppe; Craievich, Paolo; Bontoiu, Cristian; Bacescu, Daniel Mihai; Turchet, Alessio; Badano, Laura; Zangrando, Marco; Mazzolini, Fabio

Sincrotrone Trieste S.C.p.A., Trieste, Italy

VSTP4-281

Sesame vacuum system using MATLAB

Makahleh, Firas

SESAME Light Source, Amman, Jordan

VSTP4-282

Vacuum system of the 3 GeV-RCS in J-PARC

Ogiwara, Norio¹; Kinsho, Michikazu¹; Kamiya, Jun-ichiro¹; Yamamoto, Kazami¹; Suganuma, Kazuaki¹; Yoshimoto, Masahiro¹; Saito, Yoshio²; Hikichi, Yusuke¹

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VSTP4-283

Vacuum issues and challenges of SIS18 upgrade and FAIR

Kraemer, Andreas; Bellachioma, Maria Cristina; Bender, Markus; Kollmus, Holger; Kurdal, Joerg; Reich-Sprenger, Hartmut; Wilfert, Stefan

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VSTP4-284

Commissioning of the Diamond Light Source vacuum systems

Cox, Matthew; Boussier, Bastien; Bryan, Stephen; Macdonald, Brian; Shiers, Hugo

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VSTP4-285

Differential pumping for the gas attenuator FLASH at DESY

Hahn, Ulrich; Hesse, Mathias; Jastrow, Ulf; Tiedtke, Kai

Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany

VSTP4-286

New fast acting valves for the PETRA III beamlines

Hahn, Ulrich; Hesse, Mathias; Mueller, Sarah; Peters, Hans-Bernd; Wengler, Rainer; Zink, Horst

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VSTP4-287

A mobile dry pumping station for PETRA III beamlines

Degenhardt, Markus¹; Hahn, Ulrich¹; Hesse, Mathias¹; Schuett, Juergen²; van Staa, Rolf²

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VSTP4-288

The Laser Megajoule vacuum vessel: a challenge from manufacturing to the first pumpdown

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VSTP4-289

Tritium migration along the cryopumping section

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VSTP4-290

The XHV requirements for current and future light sources

Middleman, Keith¹; Herbert, Joe²; Weston, Tom¹; Malyshev, Oleg¹; Jones, Lee²

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VSTP4-291

Angular distribution of secondary electron emission from metal surfaces induced by low energy electron beams

Commisso, Mario¹; Barone, Pasquale¹; Bonanno, Assunta¹; Cimino, Roberto²; Minniti, Marina¹; Oliva, Antonino¹; Riccardi, Pierfrancesco¹; Xu, Fang¹

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VSTP4-292

Abstract withdrawn

VSTP4-293

Carbon coating for J-PARC collimator system

Yamamoto, Kazami

Japan Atomic Energy Agency, Shirakata-Shirane, Tokai-Mura, Nakagun, Ibaraki-Ken, Japan

VSTP4-294

Experimental Studies of Storage Ring Vacuum Chamber TiN Coating

Wang, Yong; Zhang, Yaofeng; Wei, Wei; Fan, Le; Wang, Jianping; Liu, Zuping

University of Science and Technology of China, National Synchrotron Radiation Laboratory, Hefei, Anhui, 230029, China

VSTP4-295

Quality assurance during the fabrication of the main spectrometer for the Katrin Experiment

Herz, Werner

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VSTP4-296

Integration of optical replica synthesizer for the diagnostics of ultra-short bunches into FLASH at DESY

Larsson, Mats¹; Javahiraly, Nicolas²; Van der Meulen, Peter²; Angelova, Gergana³; Ziemann, Volker³; Schlarb, Holger⁴

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VST - Vacuum Gas Dynamics

VSTP4-297

TRANSFLOW - A test rig to measure conductances in the transitional flow regime

Day, Christian; Hauer, Volker

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VSTP4-298

Effect of surface phenomena on free-molecule gas flow in nanoscale channels

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VSTP4-299

Flow of a rarefied gas through a short tube into vacuum

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VSTP4-300

Comparison of the high vacuum standard parameters computed from two models

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VST - Vacuum Pumps, Hardware and Getting Related Phenomena and Applications

VSTP4-301

Hydrogen operation of fusion specific forevacuum pumps

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VSTP4-302

Experimental evaluation of the dynamic gas seal effect of the molecular drag pumps

Bhatti, J.A; Maqsood, M; Khaleeq Ch, A

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VSTP4-303

Study of vacuum properties of non evaporable getters as a function of elemental composition

Patel, Sunil¹; Oleg, Malyshev¹; Valizadeh, Reza²

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VSTP4-304

The activation and measurement of non-evaporable getter (NEG) films at Daresbury laboratory

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VSTP4-305

Method for Determining Methane Outgassing Rate of Non-Evaporable Getters Operating at Room Temperature

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VSTP4-306

Adsorption and desorption properties of TiZrV getter film at different temperatures in the presence of synchrotron radiation

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VSTP4-307

Characterization of NEG thin films by SEM, AFM, and XPS

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EDU - Education in Nano and Vacuum Based Science

EDUP4-308

Project of international science-education center and integration problems of nano science education in Far Eastern Region of Asia

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EDUP4-309

Frontiers joint curriculum - increasing student options

Lundgren, Per

Chalmers University of Technology, Microtechnology and nanoscience, Göteborg, Sverige

EDUP4-310

Nano science and technology: Emerging needs of university education system

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