SESSION TIME 08:30-10:00

Plenary Session III
Room: Viktoriahallen

Time	Title	Abs No
08:30	**Atomic scale optical phenomena** *Ho, Wilson* *University of California, Irvine, United States*	PLE03-IS1
09:15	**Formation, structure and interactions of the electronic states in copper-oxide high-Tc¬ superconductors** *Davis, JC Séamus* *Cornell University, Physics, Ithaca, United States*	PLE03-IS2

LOW01 - Low Temperature Scanning Probe Microscopy I
Room: Viktoriahallen

Time	Title	Abs No
10:30	**Single molecule reaction via vibrational excitation using STM and the dynamics behind** Kawai, Maki[1]; Kim, Yousoo[2]; Ohara, Michiaki[3]; Okada, Tomonari[3] [1]RIKEN and University of Tokyo, Department of Advanced Materials Science, Wako and Kashiwa, Japan; [2]RIKEN, Wako, Japan; [3]University of Tokyo, Department of Advanced Materials Science, Kashiwa, Japan	LOW01-IS1
11:00	**Interference and Localization in Epitaxial Graphene** Stroscio, J. A.[1]; Rutter, G. M.[2]; Crain, J. N.[1]; Li, T.[2]; First, P. N.[2] [1]National Institute of Standards and Technology, Center for Nanoscale Science and Technology, Gaithersburg, MD, United States; [2]Georgia Institute of Technology, School of Physics, Atlanta, GA, United States	LOW01-IS2
11:30	**Dynamic approach to obtain single-molecule vibrational spectrum with an LT-STM** Kim, Yousoo[1]; Kawai, Maki[2] [1]RIKEN, Saitama, Japan; [2]The University of Tokyo, Chiba, Japan	LOW01-Or1
11:45	**Self-assembly of specific supramolecular architectures: dependency on template surface and end-group functionality** Canas-Ventura, Marta E.[1]; Ait-Mansour, Kamel[1]; Ruffieux, Pascal[1]; Wasserfallen, Daniel[2]; Muellen, Klaus[2]; Barth, Johannes V.[3]; Brune, Harald[4]; Fasel, Roman[1] [1]EMPA, nanotech@surfaces Laboratory, Thun, Switzerland; [2]Max-Planck Institute for Polymer Research, Mainz, Germany; [3]University of British Columbia, Vancouver, Canada; [4]Ecole Polytechnique Federale de Lausanne, EPFL, Institut de Physique des Nanostructures, Lausanne, Switzerland	LOW01-Or2
12:00	**Tunneling spectroscopy of an operating pin-diode interface** Loth, Sebastian[1]; Wenderoth, Martin[1]; Teichmann, Karen[1]; Ulbrich, Rainer G.[1]; Malzer, Stefan[2]; Doehler, Gottfried H.[2] [1]Georg-August-Universität Göttingen, IV. Physikalisches Institut, Göttingen, Germany; [2]Universität Erlangen-Nürnberg, Max-Planck-Research Group, Institute of Optics, Erlangen, Germany	LOW01-Or3

NS14 - Nanostructures
Room: K1

Time	Title	Abs No
10:30	**Physics of Graphene** Geim, Andre University of Manchester, Manchester, United Kingdom	NS14-IS1
11:00	**Electrical properties of vertical organic junction transistor made by μ-contact printing method** Shin, Gunchul; Ha, jeong sook; Park, Jaehyun; Kim, Gyu-Tae; Ji, Hyun Jin Korea university, Seoul, Republic of Korea	NS14-Or1
11:15	**Growth at low temperatures of Ag@TiO2 nano-fibers by plasma deposition** Borras, Ana; Barranco, Angel; Yubero, Francisco; Cotrino, José; Espinos, Juan pedro; Gonzalez-Elipe, Agustin R. CSIC-Univ. Sevilla, Instituto de Ciencia de Materiales de Sevilla, Sevilla, Spain	NS14-Or2
11:30	**Growth and characterization of WOx nanofibers for gas sensing applications** Piperno, Silvia[1]; Lozzi, Luca[1]; Passacantando, Maurizio[1]; Cantalini, Carlo[2]; La Rosa, Salvatore[3]; Santucci, Sandro[1] [1]University of L'Aquila, Physics, L'Aquila, Italy; [2]University of L'Aquila, Chemistry, L'Aquila, Italy; [3]Sincrotrone Trieste, Trieste, Italy	NS14-Or3
11:45	**Dressed states of superconducting qubits** Delsing, Per; Wilson, Chris; Duty, Tim; Sandberg, Martin; Persson, Fredrik; Johansson, Göran Chalmers University, Göteborg, Department of Microtechnology and Nanoscience, Göteborg, Sweden	NS14-IS2

ASS04 - Biomaterial
Room: K2

Time	Title	Abs No
10:30	**Development of high-speed atomic force microscope for studying biological macromolecule** Ando, Toshio *Kanazawa University, Department of Physics, Kanazawa, Japan*	ASS04-IS1
11:00	**Multilayer films and platelets for biomedical applications** Coulter, Kent *Southwest Research Institute, Materials and Mechanical Engineering, San Antonio, United States*	ASS04-IS2
11:30	**PC12 differentiation dynamics on bio-compatible nano-patterned substrates** Cecchini, Marco; *Bumma, Giorgia; Serresi, Michela; Beltram, Fabio* *NEST-CNR-INFM and Scuola Normale Superiore, Pisa, Italy*	ASS04-Or1
11:45	**Protein and cell adhesion on thermoresponsive pNIPAM grafted on plasma-activated PEO** *Heinz, Paul; Bretagnol, Frederic; Hasiwa, Marina; Mannelli, Ilaria; Sirghi, Lucel; Ceriotti, Laura; Valsesia, Andrea; Ceccone, Giacomo; Gilliland, Douglas;* Rauscher, Hubert; *Rossi, Francois* *European Commission, DG Joint Research Centre, Institute for Health and Consumer Protection, Ispra (VA), Italy*	ASS04-Or2
12:00	**Local silicon doping as a promoter of patterned electrografted molecules for surface functionalization** *Leroy, J[1];* Zagonel, L. F.[1]; *Del Frari, D.[1]; Bailly, A[2]; Renault, O.[2]; Charlier, J.[1]; Barrett, N.[1]; Palacin, S.[1]* *[1]CEA, DSM/Drecam/Spcsi, Gif-sur-Yvette, France; [2]CEA, DRT/Leti/Minatec, Grenoble, France*	ASS04-Or3

VST04 - Large Vacuum Systems I
Room: K11

Time	Title	Abs No
10:30	**The vacuum system of the european x-Ray free electron laser XFEL** Zapfe, Kirsten; *Boehnert, Michael; Hensler, Olaf; Hoppe, Dierk; Nagorny, Boris; Rehlich, Kay; Remde, Helmut; Wagner, Antonio; Wohlenberg, Torsten; Wojtkiewicz, Jerzy* *DESY, Hamburg, Germany*	VST04-IS1
11:00	**Accelerator vacuum systems at MAX-lab** Wallén, Erik; *Berglund, Magnus; Svensson, Håkan; Eriksson, Mikael* *MAX-lab, Lund, Sweden*	VST04-Or1
11:15	**The vacuum system of the KATRIN neutrino mass experiment** Day, Christian[1]; *Luo, Xuel[2]; Malyshev, Oleg[3]; Wolf, Joachim[2]* *[1]Forschungszentrum Karlsruhe, Karlsruhe, Germany; [2]University of Karlsruhe, Karlsruhe, Germany; [3]ASTeC, CCLRC Daresbury Laboratory, Warrington Cheshire, United Kingdom*	VST04-Or2
11:30	**First vacuum measurements with the katrin main spectrometer** *Day, Christian[1]; Fraenkle, Florian[2]; Herz, Werner[1]; Luo, Xueli[1];* Wolf, Joachim (for KATRIN)[2] *[1]Forschungszentrum Karlsruhe, Institute for Technical Physics, Karlsruhe, Germany; [2]University Karlsruhe, Institute of Experimental Nuclear Physics, Karlsruhe, Germany*	VST04-Or3
11:45	**Vacuum system design for the NSLS-II storage ring** Hseuh, Hsiao-chaun; *Foerster, Conrad; Hu, Jipeng; Sharma, Sushil; Skaritka, John* *Brookhaven National Laboratory, Upton, NY, United States*	VST04-Or4
12:00	**Experimental analysis of the prototype undulator vacuum chamber for the European XFEL project** Leandersson, Mats[1]; *Westerberg, Lars[2]; Wohlenberg, Torsten[3]; Zapfe, Kirsten[3]; Jensen, Jens[4]; Linnarsson, Margareta[1]; Karlsson, Ulf[1]* *[1]Royal Institute of Technology, Microelectronics and Applied Physics, Stockholm, Sweden; [2]Uppsala University, Materials Physics, Uppsala, Sweden; [3]Deutsches Electronen-Synchrotron, Hamburg, Germany; [4]Uppsala University, Ion Physics, Uppsala, Sweden*	VST04-Or5

ASS05 - Imaging

Room: K12

Time	Title	Abs No
10:30	**Applications in surface science of high lateral-resolution full-field XPS imaging using the NanoESCA PEEM spectromicroscope** Renault, Olivier[1]; Barret, Nick[2]; Bailly, Aude[1]; Zagonel, Luiz-Fernando[3]; Cezar, Julio Criginski[4]; Brookes, Nick[4]; Winkler, Konrad[5]; Kroemker, Burkhard[5]; Funnemann, Dietmar[5] [1]CEA LETI-MINATEC, Grenoble, France; [2]CEA-DSM/DRECAM/SPCSI, Grenoble, France; [3]CEA-DSM/DRECAM/SPCSI, Saclay, France; [4]ESRF, Grenoble, France; [5]Omicron Nanotechnology, Taunnustein, Germany	ASS05-Or1
10:45	**Chemical sample characterisation on the nanoscale: imaging XPS and scanning auger microscopy with ultimate spatial resolution** Westermann, Joerg; Maier, Markus; Berghaus, Thomas; Funnemann, Dietmar Omicron NanoTechnology GmbH, Taunusstein, Germany	ASS05-Or2
11:00	**Tracking the reaction of O2 and surface hydroxyl on TiO2(110) with scanning tunneling microscopy** Pang, Chi Lun; Papageorgiou, Anthoula - Chrysa; Cabailh, Gregory; Humphrey, David Samuel; Chen, Qiao; Thornton, Geoff University College London, London Centre for Nanotechnology and Chemistry, London, United Kingdom	ASS05-Or3
11:15	**Tip-sample distance control using photothermal actuation of a small cantilever for high-speed atomic force microscopy** Uchihashi, Takayuki; Yamashita, Hayato; Kodera, Noriyuki; Ando, Toshio Kanazawa University, Physics Department, Kanazawa, Japan	ASS05-Or4
11:30	**X-ray microscopy applications on selected biological and composite materials with the new twinmic microscope at elettra** Kovac, Janez[1]; Kaulich, Burkhard[2] [1]Jozef Stefan Institute, Department of Surface Engineering and Optoelectr., Ljubljana, Slovenia; [2]Sincrotrone Trieste, Trieste, Italy	ASS05-Or5
11:45	**Direct STM observation of TMAA adsorption and photodecomposition on TiO2(110)** Lyubinetsky, Igor[1]; Vestergaard, Ebbe[2]; Du, Yingge[1]; Henderson, Michael[1] [1]Pacific Northwest National Laboratory, Richland, United States; [2]University of Washington, Seattle, United States	ASS05-Or6
12:00	**Simultaneous non-contact atomic force and scanning tunneling microscopy imaging of defects on TiO2(110)** Pang, Chi Lun[1]; Sasahara, Akira[1]; Onishi, Hiroshi[1]; Chen, Qiao[2]; Thornton, Geoff[2] [1]Kobe University, Chemistry, Kobe, Japan; [2]University College London, London Centre for Nanotechnology and Chemistry, London, United Kingdom	ASS05-Or7

EMP06 - Metal/Organic Molecular Interface

Room: K13

Time	Title	Abs No
10:30	**Chemistry and electronic properties of Fe(Co)/CuPc contacts studied by electron spectroscopy in UHV conditions** Aristov, Victor[1]; Molodtsova, Olga[2]; Doyle, Bryan[3]; Nannarone, Stefano[4]; Ossipyan, Yurii[1]; Knupfer, Martin[2] [1]ISSP Russian Academy of Sciences, Chernogolovka, Russian Federation; [2]IFW Dresden, Dresden, Germany; [3]TASC-INFM Laboratory, Trieste, Italy; [4]Università di Modena e Reggio Emilia, Modena, Italy	EMP06-Or1
10:45	**Electrical properties of top and bottom metal/pentacene thin film contacts** Kim, Chaeho; Jeon, D. Seoul National University, Physics Education and Nano Systems Institute, Seoul, Republic of Korea	EMP06-Or2
11:00	**Origin of the asymmetric electronic structures between Au/pentacene and pentacene/Au interfaces** Ihm, Kyuwook[1]; Heo, Hye-Eun[2]; Kang, Tai-Hee[3]; Kim, Ki Jeong[4]; Kim, Bongsoo[1]; Chung, Sukmin[2] [1]Pohang accelerator laboratory & POSTECH, Beamline research division, Pohang, Republic of Korea; [2]POSTECH, Physics, Pohang, Republic of Korea; [3]Pohang accelerator laboratory, Beamline research division, Pohang, Republic of Korea; [4]Pohang accelerator laboratory & KAIST, Beamline research division, Pohang, Republic of Korea	EMP06-Or3
11:15	**Formation of donor-acceptor complex by co-deposition of Zn-tetra-phenyl-porphyrin and C: molecular interaction and charge transfer time of excited charges.** Paolo, Vilmercati[1]; Castellarin-cudia, Carla[1]; Petaccia, Luca[1]; Silvano, Lizzit[1]; Guillermo, Zampieri[2]; Rossanna, Larciprete[3]; Luigi, Sangaletti[4]; Stefania, Pagliara[4]; Albano, Cossaro[5]; Alberto, Verdini[5]; Alberto, Morgante[5]; Cinzia, Cepek[6]; Andrea, Goldoni[1] [1]Sincrotrone Trieste, Surface Science Area, Basovizza(Trieste), Italy; [2]Centro Atómico Bariloche, Bariloche, Argentina; [3]CNR ISC, Rome, Italy; [4]Universita' Cattolica, Fisica, Brescia, Italy; [5]CNR INFM, Laboratorio Nazionale TASC, Basovizza(Trieste), Italy	EMP06-Or4
11:30	**Deep level transient spectroscopy characterization of defects introduced in p-Si by electron beam deposition and proton irradiation** Nyamhere, Cloud[1]; Das, Mohan[2]; Auret, Danie[1]; Hayes, Michael[3]; Theron, Chris[4] [1]University of Pretoria, Physics department, Pretoria, South Africa; [2]Monash South Africa, School of IT, Johannesburg, South Africa; [3]University of Pretoria, Physics, Pretoria, South Africa; [4]ithemba labs, Physics, Capetown, South Africa	EMP06-Or5

SS10 - Photon or Electron Induced Ultrafast Processes

Room: K16/17

Time	Title	Abs No
10:30	**New method for photoemission and spectral intensities** Almbladh, Carl-Olof *Lunds University, Physics Department, Lund, Sverige*	SS10-Or1
10:45	**Laser field at a flat gas-solid interface in U=0 gauge for the study of the surface photoelectric effect** Raseev, Georges *Centre National de la Recherche Scientifique, Laboratoire de Photophysique Moleculaire, Orsay, France*	SS10-Or2
11:00	**Ab initio theory of photoemission from aluminum** Bartos, Igor[1]; Jiricek, Petr[1]; Vondracek, Martin[1]; Krasovskii, Eugene[2]; Schattke, Wolfgang[2] *[1]Institute of Physics, Academy of Sciences, Prague, Czech Republic; [2]Institute of Theoretical Physics, CAU, Kiel, Germany*	SS10-Or3
11:15	**Surface optical breather in semiconductor quantum dot many layer systems** Adamashvili, Guram; Knorr, Andreas *Technical University of Berlin, Berlin, Germany*	SS10-Or4
11:30	**Nanoscopic Coulomb explosion in femtosecond laser ablation of graphite** Lenner, Miklos; Kaplan, Andrey; Palmer, Richard E *The University of Birmingham, Nanoscale Physics Research Laboratory, Birmingham, United Kingdom*	SS10-Or5
11:45	**Au nanoparticle arrays as catalyst templates fabricated by electron beam induced deposition** Wanzenboeck, Heinz; Hochleitner, Gottfried; Bertagnolli, Emmerich *Vienna University of Technology, Institute f. Solid State Electronics, Vienna, Austria*	SS10-Or6
12:00	**Photodesorption of NO and Xe from adsorbate layers on silver nanoparticles on alumina** Watanabe, Kazuo; Kim, Ki Hyun; Mulugeta, Daniel; Menzel, Dietrich; Freund, Hans-Joachim *Fritz-Haber-Institut der MPG, CP, Berlin, Germany*	SS10-Or7

TF/SE06: Thin Films for Energy Applications I

Room: K21

Time	Title	Abs No
10:30	**Plasma processes to improve Proton Exchange Membrane Fuel Cell (PEMFC) conversion efficiency** Brault, Pascal[1]; Caillard, Amael[1]; RABAT, Hervé[2]; Charles, Christine[3]; BOSWELL, R.W.[4]; DURAND, Jean[5]; Thomann, Anne-Lise[1] *[1]CNRS, GREMI, Orléans, France; [2]CNRS, GREMI, Orleans, France; [3]Australian National University, Reserach School of Physical Science Engineering, Canberra, Australia; [4]Australian National University, Research School of Physical Science engineering, Canberra, Australia; [5]CNRS, Institut Européen de Membranes, Montpellier, France*	TFSE06-IS1
11:00	**LiCoO2 thin films as positive electrode for all-solid-state lithium microbatteries** Tintignac, Sophie[1]; Pereira Ramos, Jean-Pierre[1]; Salot, Raphaël[2] *[1]CNRS/LECSO, Thiais, France; [2]CEA/LITEN/DTNM/LCH, Grenoble, France*	TFSE06-Or1
11:15	**Interface phenomena in multilayers deposited by PECVD for encapsulation of lithium microbatteries** Ubrig, Jennifer[1]; Martin, Steve[1]; Cros, Stephane[2]; Bouree, Jean Eric[3]; Rieutord, Francois[4] *[1]CEA, LITEN/DTNM/LCH, Grenoble, France; [2]CEA, LITEN/INES/DTS/LCS, Le Bourget du Lac, France; [3]LPICM, Ecole Polytechnique, PALAISEAU, France; [4]CEA, DSM/DRFMC/SI3M/PCM, Grenoble, France*	TFSE06-Or2
11:30	**Ion-energy distributions in reactive magnetron sputtering of oxides and sulifdes: A comparison** Ellmer, Klaus; Seeger, Stefan *Hahn-Meitner-Institut, Berlin, Germany*	TFSE06-Or3
11:45	**Rapid nickel-induced crystallization of strongly (001)-textured tungsten disulphide thin films** Brunken, Stephan[1]; Ellmer, Klaus[1]; Seeger, Stefan[1]; Mientus, Rainald[2] *[1]Hahn-Meitner-Institut, SE 5, Berlin, Germany; [2]Optotransmitter Umweltschutz Technologie eV, Berlin, Germany*	TFSE06-Or4
12:00	**Electrical and optical properties of AgInS2 thin films obtained by spray pyrolysis** Calixto-Rodriguez, M.[1]; Tiburcio-Silver, A.[2]; Nair, P.K.[1]; Nair, M.T.S.[1]; Sanchez-Juarez, A.[1] *[1]Centro de Investigación en Energía, UNAM, Temixco, Mor., Mexico; [2]Instituto Tecnológico de Toluca, Metepec, Edo. Mex., Mexico*	TFSE06-Or5

PST/F04 - Plasma Science & Technology IV
Room: K22

Time	Title	Abs No
10:30	**Arrays of microcavity plasma devices for display, biomedical, and photochemical applications** Eden, J. Gary *University of Illinois, Electrical and Computer Engineering, Urbana, Illinois, United States*	PSTF04-IS1
11:00	**Micro-machined micro ion source for MEMS flexible process** *Tamonoki, Shinya; Kuwano, Hiroki; Nagasawa, Sumito* *Tohoku University, Sendai, Japan*	PSTF04-Or1
11:15	**Investigation of local ordering and nanomechanical softening in Si and hydrogen doped tetrahedral amorphous carbon (ta-C:Si:H) thin films: A combined NEXAFS and XRR study** *Abbas, Gamal[1]; Papakonstantinou, Pagona[2]; McLaughlin, Jim[3]* *[1]University of Ulster, Nanotechnology & Integrated Bio-engineering Centre, Newtownabbey, United Kingdom; [2]Nanotechnology & Integrated Bio-engineering Centre, University of Ulster, Newtownabbey, United Kingdom; [3]University of Ulster, Nanotechnology & Integrated Bio-engineering Centre, Newtownabbey, Uzbekistan*	PSTF04-Or2
11:30	**Growth and Physical Properties of Epitaxial and Nanocrystalline Hf1-xAlxN layers** *Howe, Brandon[1]; Sardela, Mauro[2]; Wen, Jianguo[2]; Voevodin, Andrey[3]; Petrov, Ivan[2]* *[1]University of Illinois, Materials Science and Engineering, Urbana, United States; [2]University of Illinois, Frederick Seitz Materials Research Laboratory, Urbana, United States; [3]Air Force Research Laboratory, Materials and Manufacturing Directorate, Wright-Patterson AFB, United States*	PSTF04-Or3

NS15 - Nanostructuring IV
Room: K23

Time	Title	Abs No
10:30	**Electro-oxidative lithography - Functionalization schemes for chemical reactions on the nanometer scale** *Hoeppener, Stephanie; Haensch, Claudia; Chiper, Manuela; Wouters, Daan; Schubert, Ulrich S.* *Eindhoven University of Technology, Lab. of Macromolecular Chemistry and Nanoscience, Eindhoven, Netherlands*	NS15-Or1
10:45	**Chemical active surface templates: chemistry on the nanometer scale** *Wouters, Daan; Haensch, Claudia; Hoeppener, Stephanie; Schubert, U. S.* *Technische Universiteit Eindhoven, Eindhoven, Netherlands*	NS15-Or2
11:00	**Template growth of organic semiconductors on nano-patterned silicon oxide** *Albonetti, Cristiano; Lunedei, Eugenio; Cavallini, Massimiliano; Biscarini, Fabio* *CNR, Institute for the Study of Nanostructured Material, Bologna, Italy*	NS15-Or3
11:15	**Stencil evaporation of nanowires and contacts on insulating surfaces in vacuum** *Fostner, Shawn; Mativetsky, Jeffrey; Burke, Sarah; Grutter, Peter* *McGill University, Physics, Montreal, Canada*	NS15-Or5
11:30	**Formation of self-organized InP nano-pillars by ion-sputtering** *Anand, Srinivasan[1]; Mulot, M[1]; Bitauld, D[1]; Berrier, A[1]; Tyagi, R[1]; Patriache, G[2]* *[1]Royal Institute of Technology, Microelectronics and Applied Physics, Kista, Sweden; [2]CNRS-LPN, Marcoussis, France*	NS15-Or6
11:45	**Nanostructuring by heavy ion lithography using self-assembled masks** *Jensen, Jens[1]; Skupinski, Marek[1]; Sanz, Ruy[2]; Possnert, Göran[1]; Hjort, Klas[1]* *[1]Uppsala University, Department of Engineering, SE Uppsala, Sverige; [2]Instituto de Ciencia de Materials de Madrid, Consejo Superior de Investigaciones Cientificas, Catoblanco, Madrid, Spain*	NS15-Or7
	Abstract withdrawn	NS15-Or4

NS16 - Thin Metallic Films

Room: K24

Time	Title	Abs No
10:30	**Synthesis and properties of nano-structured Nickel-Cobalt films** Westin, Gunnar[1]; Pohl, Annika[1]; Ekstrand, Åsa[1]; Over, Björn[1]; Kvist, Ulrika[1]; Svedlindh, Peter[2] [1]Uppsala University, Materials Chemistry, Uppsala, Sweden; [2]Uppsala University, Solid State Physics, Uppsala, Sweden	NS16-Or1
10:45	**Electron-phonon coupling in monolayer silver films; interface effects** Pletikosic, Ivo[1]; Miksic Trontl, Vesna[2]; Milun, Milorad[1]; Pervan, Petar[1] [1]Institute of Physics, Zagreb, Croatia; [2]Faculty of Electrical Engineering and Computing, Zagreb, Croatia	NS16-Or2
11:00	**Metallic nano-clusters and film laser-patterning on solid surfaces studied using weakly bound buffer layers** Asscher, Micha The Hebrw University of Jerusalem, Physical Chemistry, Jerusalem, Israel	NS16-Or3
11:15	**Photoemission of Au thin films of nanosized thickness deposited onto native oxide covered Si (100) substrates** Petõ, Gábor[1]; Baji, Zsófia[1]; Khánh, Nguyen Quoc[1]; Daróczi, Csaba[1]; Molnár, György[1]; Guczi, László[2] [1]Research Institute for Techn. Phys. and Mat. Sci., Budapest, Hungary; [2]Istitution of Isotopes, Budapest, Hungary	NS16-Or4
11:30	**Probing the Kondo resonance of single subsurface Co atoms with the STM** Weismann, Alexander; Wenderoth, Martin; Ulbrich, Rainer G. Universität Göttingen, IV.Physikalisches Institut, Göttingen, Germany	NS16-Or5
11:45	**Suppression of large island formation in InAs/InGaAs dot-in-a-well structures with periodic AsH3 interruption** Kim, Jungsub[1]; Yang, Changjae[1]; Ahn, Eungjin[1]; Yoon, Euijoon[1]; Lee, Yongsoo[2]; Cheong, Hyeonsik[3]; Choi, Wonjoon[4] [1]Department of Materials Science and Engineering, Seoul National University, Seoul, Republic of Korea; [2]Department of Physics and Chemistry, Korea Military Academy, Seoul, Republic of Korea; [3]Department of Physics, Sogang University, Seoul, Republic of Korea; [4]Nano-Device Research Center, Korea Institute of Science and Technology, Seoul, Republic of Korea	NS16-Or6
12:00	**One-dimensional surface states induced by segregated C reconstruction on Cr(001) thin film surfaces** Oka, Hirofumi[1]; Nakamura, Kohji[2]; Subagyo, Agus[1]; Sueoka, Kazuhisa[1] [1]Hokkaido University, Sapporo, Japan; [2]Mie University, Tsu, Japan	NS16-Or7

SS11 - Magnetic Properties of Surfaces II

Room: A2

Time	Title	Abs No
10:30	**Magnetism in nano-structured materials** Plummer, Earl Ward[1]; Weitering, Hanno[1]; Shen, Jian[2] [1]University of Tennessee, Physics and Astronomy, Knoxville, TN, United States; [2]Oak Ridge National Laboratory, Material Sciences and Technology Division, Oak Ridge, TN, United States	SS11-IS1
11:00	**Exploring magnetic nanostructures by spin polarized low energy electron microscopy.** Schmid, Andreas Lawrence Berkeley National Lab, NCEM, Berkeley, CA, United States	SS11-IS2
11:30	**Magnetism of Si(111)1x1- and 2x2-Fe surfaces** Hattori, Ken[1]; Hattori, Azusa N.[2]; Takematsu, Emi[3]; Ishii, Akira[3]; Komori, Fumio[4]; Sekiguchi, Kouji[4]; Toshio, Takahashi[4]; Daimon, Hiroshi[1] [1]Nara Institute of Science and Technology, JST-CREST, Ikoma, Saitama, Japan; [2]Nara Institute of Science and Technology, Graduate School of Materials Science, Ikoma, Japan; [3]Tottori University, Department of Applied Mathematics and Physics, Tottori, Japan; [4]Institute for Sold State Physics, Univ. of Tokyo, Chiba, Japan	SS11-Or1
11:45	**Single-island magnetic dichroism in ultra-thin cobalt films** Mascaraque, Arantzazu[1]; Aballe, Lucia[2]; Mentes, Tevfik O.[2]; Marco, Jose F.[3]; El Gabaly, Farid[4]; Klein, Christof[5]; Schmid, Andreas K.[5]; McCarty, Kevin F.[6]; Locatelli, Andrea[2]; de la Figuera, Juan[4] [1]Universidad Complutense de Madrid, Dpto. de Fisica de Materiales, Madrid, Spain; [2]Elettra- Sinctrotrone Trieste, Trieste, Italy; [3]Instituto de Quimica-Fisica "Rocasolano", Madrid, Spain; [4]Universidad Autonoma de Madrid, CMAM and Dpto. de Fisica de la Materia Condensada, Madrid, Spain; [5]Lawrence Berkeley National Laboratory, Berkeley, United States; [6]Sandia National Laboratories, Livemore, United States	SS11-Or2
12:00	**Observation of a spin spiral state in the Mn monolayer on W(001) by spin-polarized scanning tunneling microscopy** von Bergmann, Kirsten; Kubetzka, Andre; Bode, Matthias; Wiesendanger, Roland University of Hamburg, Institute of Applied Physics, Hamburg, Germany	SS11-Or3

SS12 - Electronic Structure III
Room: A3

Time	Title	Abs No
10:30	**Electronic Band Structure and Many Body Effects in Graphene** *Bostwick, Aaron[1]; Ohta, Taisuke[1]; McChesney, Jessica[1]; Seyller, Thomas[2]; Rotenberg, Eli[1]; Horn, Karsten[3]* *[1]Advanced Light Source, Lawrence Berkeley Lab, Berkeley, CA, United States; [2]University Erlangen-Nürnberg, Institut für Physik der kondensierten Materie, Erlangen, Germany; [3]Fritz-Haber-Institut, Molecular Physics, Berlin, Germany*	SS12-IS1
11:00	**Interactions of graphene sheets in multilayer and overlayer systems: Calculations beyond standard DFT** *Brako, Radovan; Lazic, Predrag; Sokcevic, Damir* *Rudjer Boskovic Institute, Zagreb, Croatia*	SS12-Or1
11:15	**Charge redistribution and Fermi surface modification on Be(0001)** *Vobornik, Ivana[1]; Fujii, Jun[1]; Hochstrasser, Michael[2]; Krizmancic, Damjan[1]; Viol, Carlos[1]; Fabris, Stefano[3]; Baroni, Stefano[3]; Panaccione, Giancarlo[1]; Rossi, Giorgio[1]* *[1]TASC National Laboratory, INFM-CNR, Trieste, Italy; [2]Laboratorium für Festkörperphysik, ETH Hönggerberg, Zurich, Switzerland; [3]3DEMOCRITOS National Simulation Center, INFM-CNR, Trieste, Italy*	SS12-Or2
11:30	**Photoemission from commensurate and incommensurate alkali metal monolayers on Be(0001)** *Algdal, Jonathan[1]; Breitholtz, Marcus[1]; Wallden, Lars[1]; Lindgren, S.-A.[1]; Balasubramanian, Thiagarajan[2]; Hellsing, Bo[3]; Chis, Vasile[3]* *[1]Chalmers Univ. of Technology, Applied Physics, Goteborg, Sweden; [2]Lund University, Max-laboratory, Lund, Sweden; [3]Gothenburg University, Physics, Goteborg, Sweden*	SS12-Or3
11:45	**Quantum oscillation of the apparent step heights in nanometer-thin Pb(111) films grown on Cu(111)** *Calleja, F.; Vazquez de Parga, A.L.; Hinarejos, J.J.; Camarero, J.; Otero, R.; Miranda, R.* *Universidad Autonoma de Madrid, Fisica de la Materia Condensada, Madrid, Spain*	SS12-Or4
12:00	**Angle-resolved photoemission of Co nanostructures on Au(887)** *Biswas, Chhayabrita; Varykhalov, Andrej; Rader, Oliver* *BESSY GmbH, Berlin, Germany*	SS12-Or5

NS17 - Nanofriction
Room: A4

Time	Title	Abs No
10:30	**Nanotribology, nanomechanics and materials characterization studies using scanning probe microscopy** *Bhushan, Bharat* *The Ohio State University, Nanotribology Laboratory for Information Storage a, Columbus, United States*	NS17-IS1
11:00	**Friction Force Microscopy: what you see is what you (don't) get** *Frenken, Joost W M[1]; Abel, Daniel[1]; Krylov, Sergey Yu[2]* *[1]Leiden University, Kamerlingh Onnes Laboratory, Leiden, Netherlands;* *[2]Leiden Univ., Kamerlingh Onnes Lab, Leiden, Inst of Physical Chemistry, Russian Aca. Sciences, Moscow, Russian Federation*	NS17-IS2
11:30	**Atomic friction on alkali halide superstructures** *Maier, Sabine[1]; Gnecco, Enrico[1]; Glatzel, Thilo[1]; Baratoff, Alexis[1]; Bennewitz, Roland[2]; Meyer, Ernst[1]* *[1]University of Basel, Institute of Physics, Basel, Switzerland; [2]McGill University, Department of Physics, Montreal, Canada*	NS17-Or2
11:45	**Negative differential friction in sliding coaxial nanotubes** *Tosatti, Erio[1]; Tartaglino, Ugo[2]; Zhang, Xiaohua[3]; Santoro, Giuseppe E.[1]* *[1]SISSA , ICTP, and Democritos, Trieste, Italy; [2]Democritos, and SISSA, Trieste, Italy; [3]SISSA, Trieste, Italy*	NS17-Or1
12:00	**Friction of nanoscale contacts: From amontons' law to superlubricity** *Dietzel, Dirk[1]; Mönninghoff, Tristan[2]; Schirmeisen, André[2]; Fuchs, Harald[1]; Schwarz, Udo D.[3]* *[1]Forschungszentrum Karlsruhe, INT, Karlsruhe, Germany; [2]Universität Münster, Physikalisches Institut, Münster, Germany; [3]Yale University, Department of Mechanical Engineering, New Haven, CT, United States*	NS17-Or3
12:15	**A closer look at the complex hydrophilic / hydrophobic interactions forces at the hair surface** *Baghdadli, Nawel; Luengo, Gustavo* *L'OREAL Research, Advance Research, Paris / Aulnay Sous Bois, France*	NS17-Or4

EMP07 - Wide Bandgap Semiconductors II
Room: A5

Time	Title	Abs No
10:30	**High temperature metalorganic vapor phase epitaxial growth of AlN and AlGaN for fabrication of high performance UV/DUV emitters** *Balakrishnan, Krishnan; Iida, Kazuyoshi; Watanabe, Hirotaka; Amano, Hiroshi; Iwaya, Motoaki; Akasaki, Isamu* *Meijo University, Materials Science and Engineering, Nagoya, Japan*	EMP07-IS1
11:00	**Enhanced growth rate of SiC using chloride-based epitaxy** *Janzén, Erik; Pedersen, Henrik; Leone, Stefano; Darakchieva, Vanya; Henry, Anne* *Linköping University, Department of Physics, Chemistry and Biology, Linköping, Sweden*	EMP07-Or1
11:15	**Improvement of UV emission from ZnO thin films** *Volodymyr , Khranovskyy[1]; George , Lashkarev[2]; V, Lazorenko[2]; S, Trushkin[3]; A. G, Ulyashin[4]; G. Reza, Yazdi[1]; Ivan , Ivanov[1]; Rositza , Yakimova[1]* *[1]Linkoping University, Linkoping, Sweden; [2]Institute for Problems of Material Science, Kyiv, Ukraine; [3]Institute of Physics, Warsaw, Poland; [4]University of Oslo, Oslo, Norway*	EMP07-Or2
11:30	**Electrical chracterisation of shallow level defects in ZnO grown by pulsed-laser deposition** *Auret, Danie[1]; Meyer, Walter[1]; von Wenckstern, Holger[2]; Biehne, Gisela[2]; Hochmuth, Holger[2]; Lorenz, Michael[2]; Grundmann, Marius[2]* *[1]University of Pretoria, Physics Department, Pretoria, South Africa; [2]Universität Leipzig, Institut für Experimentelle Physik II, Leipzig, Germany*	EMP07-Or3
11:45	**Stoichiometry in bulk and at the surface of pulsed laser deposited zno** *Schwarz, Reinhard[1]; Ayouchi, Rachid[1]; Bentes, Luis[1]; Gomes, Henrique[2]; Alves, Eduardo[3]; Niehus, Manfred[4]; Teodoro, Orlando[5]* *[1]Instituto Superior Tecnico, Physics, Lisbon, Portugal; [2]Universidade do Algarve, Electrical Engineering, Faro, Portugal; [3]Instituto Tecnologico e Nuclear, Physcis, Sacavem, Portugal; [4]Instituto Superior de Engenharia de Lisboa, Electronica e Telecomunicacoes, Lisbon, Portugal; [5]Universidade Nova de Lisboa, Physics, Monte de Caparica, Portugal*	EMP07-Or4
12:00	**Carrier diffusion in nanocrystalline zinc oxide studied by electro-optical laser interference technique** *Niehus, Manfred[1]; Ayouchi, Rashid[2]; Bentes, Luis[2]; Schwarz, Reinhard[2]* *[1]ISEL/DEETC, Lisbon, Portugal;* *[2]IST, Dep. Fisica, Lisbon, Portugal*	EMP07-Or5

LOW02 - Low Temperature Scanning Probe Microscopy II
Room: Viktoriahallen

Time	Title	Abs No
13:30	**Mapping spin structures on the atomic scale** *Wiesendanger, Roland* *University of Hamburg, Institute of Applied Physics, Hamburg, Germany*	LOW02-IS1
14:00	**Magnetism of atomic-scale nanostructures** *Kern, Klaus* *Max Planck Institute for Solid State Research, Stuttgart, Germany*	LOW04-IS2
14:30	**Stm study of slow moving vortex lattices in NbSe2** *Dreyer, Michael[1]; Lee, Jonghee[1]; Wang, Hui[1]; Barker, Barry I.[2]* *[1]University of Maryland, Physics, College Park, United States; [2]Laboratory for Physical Sciences, College Park, United States*	LOW02-Or1
14:45	**Growth and electronic properties of atomic Fe chains on Ir(001)** *Menzel, Matthias; Kubetzka, Andre; von Bergmann, Kirsten; Bode, Matthias; Wiesendanger, Roland* *University of Hamburg, Institute of Applied Physics, Hamburg, Germany*	LOW02-Or2
15:00	**Importance of thermovoltage on the interpretation of STM data** *Homoth, J.; Wenderoth, M.; Druga, T.; Ulbrich, R. G.* *Universität Göttingen, IV. Physikalisches Institut, Göttingen, Germany*	LOW02-Or3
15:15	**Tuning between ising and heisenberg coupling in atomically-assembled magnetic structures** *Otte, Alexander F.[1]; Hirjibehedin, Cyrus F.[1]; Heinrich, Andreas J.[1]; Ternes, Markus[1]; Lutz, Christopher P.[1]; van Ruitenbeek, Jan M.[2]* *[1]IBM Almaden Research Center, San Jose, CA, United States; [2]Leiden University, Leiden, Netherlands*	LOW02-Or4

NS18 - Nanomedicine and Related
Room: K1

Time	Title	Abs No
13:30	**Biological surface-modification of biomaterials for regenerative medicine** *Ito, Yoshihiro* *RIKEN Institute, Nano Medical Engineering Laboratory, Wako-shi, Japan*	NS18-IS1
14:00	**Designing biological functions in complex nonbiological assemblies** *Percec, Virgil* *University of Pennsylvania, Philadelphia, United States*	NS18-IS2
14:30	**Apoptosis study of the macrophage via near-field scanning optical microscope** *Wang, Dau-Chung[1]; Chen, Ken-Yen[1]; Wun, Sin-Jhu[2]; Chen, Gen-You[1]; Chen, Shinn-Hwa[1]* *[1]National Yunlin University of Science and Technolo, Graduate School of Engineering Science and Technol, Yunlin, Taiwan; [2]National Yunlin University of Science and Technolo, Department of Mechanical Engineering, Yunlin, Taiwan*	NS18-Or1
14:45	**A nanoelectrode-based biosensor for the detection of single biorecognition events** *Maruccio, Giuseppe; Primiceri, Elisabetta; Marzo, Pasquale; Arima, Valentina; Pellegrino, Teresa; Krahne, Roman; Della Torre, Antonio; Cingolani, Roberto; Calabi, Franco; Rinaldi, Ross* *National Nanotechnology Lab of CNR-INFM, Lecce, Italy*	NS18-Or2

ASS06 - Surface Modification I
Room: K2

Time	Title	Abs No
13:30	**Atom reactions with organized thin film assemblies** Fairbrother, Howard; Gorham, Justin; Josh, Wnuk *Johns Hopkins University, Chemistry, Baltimore, United States*	ASS06-0r1
13:45	**Site-selectively initiated growth of carbon nanotubes on chemically active surface templates by microwave irradiation** Druzhinina, Tamara[1]; Weltjens, Wim[2]; Hoeppener, Stephanie[1]; Wouters, Daan[1]; Schubert, Ulrich S.[1] *[1]Eindhoven University of Technology, Lab. of Macromolecular Chemistry and Nanoscience, Eindhoven, Netherlands; [2]Eindhoven University of Technology, Eindhoven, Netherlands*	ASS06-0r2
14:00	**Morphological and structural characterization of metal-doped carbon nanofibers synthesized at room temperature** Daiki, Takeuchi[1]; Zhi-peng, Wang[1]; Kohei, Yamaguchi[1]; Masashi, Kitazawa[2]; Yasuhiko, Hayashi[1]; Masaki, Tanemura[1] *[1]Nagoya Institute of Technology, Department of Environmental Technology, Nagoya, Japan; [2]Olympus Co. Ltd., Nagano, Japan*	ASS06-0r3
14:15	**Polymerization at the alkylthiolate-gold interface** Grönbeck, Henrik[1]; Häkkinen, Hannu[2] *[1]Competence Centre for Catalysis, Department of Applied Physics, Chalmers University of Technology, Göteborg, Sweden; [2]Nanoscience Center, Departments of Physics and Chemistry, University of Jyväskylä, Jyväskylä, Finland*	ASS06-0r4
14:30	**Manipulation of chemical and optical properties of MgO nanocubes via surface functionalization** Stankic, Slavica[1]; Diwald, Oliver[1]; Bernardi, Johannes[2]; Knoezinger, Erich[1] *[1]TU Vienna, Institute of Materials Chemistry, Vienna, Austria; [2]TU Vienna, Institute of Solid State Physics, Vienna, Austria*	ASS06-0r5
14:45	**Metal replicas of track membranes as the surfaces for ion emission** Oleinikov, Vladimir[1]; Zagorski, Dmitri[2]; Nikolaeva, Tatiana[1]; Mchedlishvili, Boris[2] *[1]Institute of Bioorganic Chemistry, Moscow, Russian Federation; [2]Institute of Crystallography, Moscow, Russian Federation*	ASS06-0r6

VST05 - Large Vacuum Systems II
Room: K11

Time	Title	Abs No
13:30	**Challenges in vacuum design of the international liner collider** Malyshev, Oleg *Daresbury Laboratory, ASTeC, Warrington, Cheshire, United Kingdom*	VST05-0r1
13:45	**The insulating vacuum system of the SNS cryomodules** Ladd, Peter; Williams, Derrick *Oak Ridge National Laboratory, Spallation Neutron Source, Oak Ridge, United States*	VST05-0r2
14:00	**The ITER vacuum vessel leak tightness requirements, proving and achieving them in construction** Pearce, R J H[1]; Wykes, M P E[2]; Bansley, R[2]; Frederici, G[3]; Jones, L P D F[3]; Worth, L[4] *[1]EFDA/ EURATOM/UKAEA Fusion Association, Munich, Germany; [2]ITER IT, Cadarache, France; [3]EFDA, Munich, Germany; [4]Euratom/UKAEA, Culham, United Kingdom*	VST05-0r3
14:15	**Vacuum operation of first divertor campaign on EAST** *Gu, Xuemao; Wang, Xiaoming; Hu, Jiansheng;* Yang, Yu *Institute of Plasma Physics, CAS, Hefei, China*	VST05-0r4
14:30	**ISIS second target station vacuum systems** Hughes, Shaun *CCLRC Rutherford Appleton Laboratory, ISIS Facility, Oxford, United Kingdom*	VST05-0r5
14:45	**Research for a clean and large throughput differential pumping system** Yang, Xiaotian[1]; Meng, Jun[1]; Chu, Jiguo[2]; Zhang, Suping[1]; You, Zhiming[1]; Zhao, Yugang[1]; Hu, Zhenjun[1]; Yang, Weishun[1]; Guo, Dizhou[1] *[1]Institute of Modern Physics, CAS, Vacuum Technology Division, Lanzhou, China; [2]Shenzhen University, Physics College, Shenzhen, China*	VST05-0r6
15:00	**TRIUMF Cyclotron Vacuum System Refurbishing** Sekachev, Igor *TRIUMF, Canadian National Recearch Laboratory, Vancouver, Canada*	VST05-0r7

ASS07 - Quantification of Data Depth Profiling
Room: K12

Time	Title	Abs No
13:30	**High depth resolution SIMS analysis using metal cluster complex ion bombardment** Tomita, Mitsuhiro[1]; Kinno, Teruyuki[1]; Koike, Mitsuo[1]; Tanaka, Hiroki[1]; Takeno, Shiro[1]; Fujiwara, Yukio[2]; Kondou, Koji[2]; Teranishi, Yoshikazu[2]; Nonaka, Hidehiko[2]; Fujimoto, Toshiyuki[2]; Kurokawa, Akira[2]; Ichimura, Shingo[2] [1]Toshiba Corporation, Corporate Research & Development Center, Yokohama, Japan; [2]National Institute of Advanced Industrial Science, Tsukuba, Japan	ASS07-IS1
14:00	**Non-destructive electronic, compositional and structural depth profile in tens nanometers scale of multilayer system by means of HAXPES and SXD: selected examples** Rubio-Zuazo, Juan; Castro, Germán R. SpLine, Spanish CRG beamline at the ESRF, Grenoble, France	ASS07-Or1
14:15	**Quantification of polypropylene surface chemical groups using principal components regression and TOFSIMS and XPS data** Awaja, Firas[1]; van Riessen, Grant[2]; Pigram, Paul[2] [1]Deakin University, Melbourne, Australia; [2]La Trobe University, Melbourne, Australia	ASS07-Or2
14:30	**Intrinsic type energy loss in resonant KLL Auger spectra of Cu and Ni metals** Kover, Laszlo[1]; Cserny, Istvan[1]; Drube, Wolfgang[2]; Tougaard, Sven[3]; Yubero, Francisco[4] [1]Institute of Nuclear Research (MTA ATOMKI), Electron Spectroscopy and Materials Science, Debrecen, Hungary; [2]Hamburger Synchrotronstrahlugslabor am DESY, Hamburg, Germany; [3]University of Southern Denmark, Department of Physics and Chemistry, Odense M, Denmark; [4]Inst. de Ciencia de Materiales de Sevilla, Sevilla, Spain	ASS07-Or3
14:45	**Auger backscattering factor calculations for layered system** Zommer, Ludomir; Jablonski, Aleksander Institute of Physical Chemistry, Warsaw, Poland	ASS07-Or4
15:00	**Quantitative chemical state XPS analysis of first row transition metals, oxides and hydroxides** Biesinger, Mark C.[1]; Payne, Brad P.[1]; Hart, Brian R.[1]; Grosvenor, Andrew P.[2]; Smart, Roger St.C.[3]; McIntyre, N. Stewart[1] [1]University of Western Ontario, Surface Science Western, London, Canada; [2]University of Alberta, Department of Chemistry, Edmonton, Canada; [3]University of South Australia, ACeSSS (Appl. Ctr. for Structural & Synchrotron), Mawson Lake, Australia	ASS07-Or5

TF/SE07: Micromechanical Properties and Adhesion of Thin Films
Room: K13

Time	Title	Abs No
13:30	**Determination of mechanical properties of thin films** Richter, Frank[1]; Chudoba, Thomas[2]; Schwarzer, Norbert[3] [1]Chemnitz University of Technology, Chemnitz, Germany; [2]Advanced Surface Mechanics (ASMEC), Radeberg, Germany; [3]Saxonian Institute of Surface Mechanics, Eilenburg, Germany	TFSE07-Or1
13:45	**Raman measurement of intrinsic stress of microcrystalline silicon thin films** Vetushka, Aliaksei; Ledinsky, Martin; Stuchlik, Jiri; Mates, Tomas; Fejfar, Antonin; Kocka, Jan Institute of Physics AS CR, Prague 6, Czech Republic	TFSE07-Or2
14:00	**Measurement of adhesion between silver and ZnO in multilayers: superlayer method** Grachev, Sergey; Mehlich, Alexander; Barthel, Etienne; Sondergard, Elin Saint-Gobain Recherche, Unité Mixte CNRS/Saint-Gobain, Aubervilliers, France	TFSE07-Or3
14:15	**Mechanical properties of Al-(Nb, Mo, Ta, W) thin films** Car, Tihomir[1]; Radic, Nikola[1]; Cekada, Miha[2]; Tonejc , Anton[3] [1]Rudjer Boskovic Institute, Division of Materail Science, Zagreb, Croatia; [2]Jozef Stefan Institute, Ljubljana, Slovenia; [3]Faculty of Science, Department of Physics, Zagreb, Croatia	TFSE07-Or4
14:30	**A combinatorial approach to relate structure and mechanical properties of nanocomposite Cu-Ag films** Misják, Fanni[1]; Barna , B. Péter[1]; Tóth, L. Attila[1]; Bertóti, Imre[2]; Ujvári, Tamás[2]; Radnóczi, György[1] [1]Res. Inst. for Techn. Phys. and Materials Science, Budapest, Hungary; [2]Inst. of Materials and Env. Chemistry, Budapest, Hungary	TFSE07-Or5
14:45	**Properties of carbon – metal (Ni or Ti) nanocomposite thin films** Radnóczi, György[1]; Sedlackova, Katarina[1]; Grasin, Robert[1]; Ujvari, Tamas[2]; Bertoti, Imre[2] [1]Res. Inst. for Technical Physics and Mat. Science, Budapest, Hungary; [2]Res. Inst. of Materials & Environmental Chemistry, Budapest, Hungary	TFSE07-Or6
15:00	**Buckling phenomenon of thin films and related patterns** Coupeau, Christophe Lmp-Cnrs, Dpt of Materials Science, University of Poitiers, Poitiers-Futuroscope, France	TFSE07-Or7

SS13 - Small Particles, Clusters and Novel Structures
Room: K16/17

Time	Title	Abs No
13:30	**As-grown ordered CoPt nanoparticles of controlled size and composition and quantitative study of size effect on order-disorder phenomena** *Alloyeau, Damien[1]; Ricolleau, Christian[2]; Langlois, Cyril[2]; Le Bouar, Yann[1]; Loiseau, Annick[1]* *[1]Onera, Laboratory for Microstructural Investigations, Chatillon, France; [2]University Paris 7, Materials and Quantum Phenomena, Paris, France*	SS13-Or1
13:45	**Formation of nanostructures on cluster-surface impact** *Popok, Vladimir[1]; Vučkovič, Saša[1]; Abdela, Ahmed[1]; Campbell, Eleanor[1]; Samela, Juha[2]; Nordlund, Kai[2]* *[1]Göteborg University, Department of Physics, Göteborg, Sweden; [2]University uf Helsinki, Department of Physical Sciences, Helsinki, Finland*	SS13-Or2
14:00	**Two-dimensional ir cluster lattice on a graphene moiré on ir(111)** *N'Diaye, Alpha[1]; Plasa, Tim[1]; Myslivecek, Josef[2]; Feibelman, Peter J.[3]; Michely, Thomas[1]* *[1]University of Cologne, II. Physikalisches Institut, Cologne, Germany; [2]Research Center Jülich, IBN-3, Jülich, Germany; [3]Sandia National Laboratories, Albuquerque, United States*	SS13-Or3
14:15	**Phase-field model for deposition of platinum nanoparticle on graphite** Yamakawa, Shunsuke[1]; Okazaki-Maeda, Kazuyuki[2]; Kohyama, Masanori[3]; Hyodo, Shi-aki[1] [1]Toyota Central R&D Labs., Inc., Nagakute, Aichi, Japan; [2]Japan Science and Technology Agency, CREST, Kawaguchi, Japan; [3]AIST, UBIQEN, Ikeda, Japan	SS13-Or4
14:30	**Supported Al nanodisks and nanoholes: plasmonic properties and application for plasmonic oxidation kinetics measurements** Langhammer, Christoph[1]; Schwind, Markus[2]; Zoric, Igor[1]; Kasemo, Bengt[1] [1]Chalmers University of Technology, Applied Physics, Gothenburg, Sverige; [2]Chalmers University of Technology, Applied Physics, Gothenburg, Sweden	SS13-Or5
14:45	**Ordered nanostructures on semiconductor surfaces** *Saranin, Alexander; Zotov, Andrey; Kotlyar, Vasily; Gruznev, Dmitry; Kuyanov, Igor* *Institute of Automation and Control Processes, Vladivostok, Russian Federation*	SS13-Or6
15:00	**Observation of the boson peak at the surface of vitreous silica** *Steurer, Wolfram[1]; Apfolter, Andreas[1]; Koch, Markus[1]; Ernst, Wolfgang E.[1]; Holst, Bodil[1]; Sondergard, Elin[2]; Manson, Joseph R.[3]* *[1]Graz University of Technology, Institut of Experimental Physics, Graz, Austria; [2]Laboratoire Surface et Interface du Verre, UMR125CNRS/Saint-Gobain, Aubervilliers Cedex, France; [3]Clemson University, Department of Physics and Astronomy, Clemson, South Carolina, United States*	SS13-Or7

TF/SE08: Thin Films for Energy Applications II
Room: K21

Time	Title	Abs No
13:30	**Cation charge state distribution in conducting spinel oxide films** *Exarhos, Gregory[1]; Teodoro-Dier, Adriana[2]* *[1]Pacific Northwest National Laboratory, Chemical and Materials Sciences Division, Richland, WA, United States; [2]Lawrence University, Physics Department, Appleton, WI, United States*	TFSE08-Or1
13:45	**Microstructural characterization of Zn1-XMgXO buffers layer in CIGS solar cells** *Coronel, Ernesto[1]; Törndahl, Tobias[2]; Platzer Björkman, Charlotte[2]; Edoff, Marika[2]; Leifer, Klaus[1]* *[1]Electron Microscopy and Nanoengineering, Uppsala Universitet, Uppsala, Sweden; [2]Solid State Electronics, Uppsala Universitet, Uppsala, Sweden*	TFSE08-Or2
14:00	**Linking morphology and device performance of polymer solar cells based on spin-coated thin films of the low-bandgap polyfluorene copolymer APFO-3 and PCBM** *Bjorstrom, Cecilia[1]; Zhang, Fengling[2]; Inganas, Olle[2]; Magnusson, Kjell[1]; Moons, Ellen[1]* *[1]Karlstad University, Physics, Karlstad, Sweden; [2]Linkoping University, Physics, Linkoping, Sweden*	TFSE08-Or3
14:15	**Solution processing of magnetic nano-composites** *Pohl, Annika[1]; Luna, Carlos[2]; Sangregorio, Claudio[2]; Jansson, Kjell[3]; Westin, Gunnar[4]; Ekstrand, Åsa[4]; Boström, Tobias[4]; Ottosson, Mikael[4]* *[1]Uppsala University, Uppsala, Sweden; [2]Florence University, Firenze, Italy; [3]Stockholm University, Stockholm, Sweden; [4]Uppsala University, Uppsala, Sweden*	TFSE08-Or4
14:30	**Fabrication of Cd:Sb Nanocrystalline Thin Films for Dye Sensitized Solar Cells** *Kashyout, Abd ElHady[1]; Muhammed, Mamoun[2]; Soliman, moataz[3]* *[1]Royal Institute of Technology, KTH, Materials Chemistry Division, MSE, Stokholm, Sweden; [2]Royal Institute of Technology, Materials Chemistry Division, MSE, Stokholm, Sweden; [3]Institute of Graduate Studies and Research, Alexan, Alexandria, Egypt*	TFSE08-Or5
14:45	**Organic donor/acceptor mixed thin films segregate into nanoscale interdigitated areas on Au(111): Towards an optimum solar cell heterojunction morphology** *Otero, Roberto[1]; Écija, David[1]; Fernández, Gustavo[2]; Gallego, José M[3]; Sánchez, Luis[2]; Martín, Nazario[2]; Miranda, Rodolfo[1]* *[1]Universidad Autónoma de Madrid, Física de la Materia Condensada, Madrid, Spain; [2]Universidad Complutense de Madrid, Química Orgánica, Madrid, Spain; [3]Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, Spain*	TFSE08-Or6
15:00	**Effect of surface roughness of conducting polypyrrole thin film electrodes on electro-catalytic oxidation of methanol** *Adhikari, Arindam[1]; Radhakrishnan, S[2]; Pan, Jinshan[3]; Leygraf, Christofer[3]* *[1]Royal Institute of Technology, Surface Chemistry Division, Chemistry Department, Stockholm, Sweden; [2]National Chemical Laboratory, Polymer Science & Engineering Department, Pune, India; [3]Royal Institute of Technology, Corrosion Science Division, Chemistry Department, Stockholm, Sweden*	TFSE08-Or7

PST/F05 - Plasma Science & Technology with Fusion
Room: K22

Time	Title	Abs No
13:30	**Plasma-wall interaction: a complex combination of surface processes critical for thermo-nuclear fusion** Roth, Joachim[1]; Tsitrone, Emmanuelle[2]; Loarte, Alberto[3] [1]Max-Planck-Institut für Plasmaphysik, EURATOM-Association, Garching, Germany; [2]Association Euratom-CEA, CEA/DMS/DRFC CEA Cadarache, Saint Paul lez Durance, France; [3]EFDA-Close Support Unit Garching, Garching, Germany	PSTF05-IS1
14:00	**ICRF boronization during the first EAST divertor operation** Wang, Houyin; Yang, Yu; Wang, Xiaoming Institute of Plasma Physics, CAS, Hefei, China	PSTF05-Or1
14:15	**Carbon erosion experiments in the ITER relevant flux regime** Kleyn, Aart W.[1]; Shumack, A.E.[2]; Westerhout, J.[2]; Vijvers, W.A.J.[2]; Brezinsek, S[3]; Lopes Cardozo, N.J.[2]; Goedheer, W.J.[2]; de Groot, B.[2]; van der Meiden, H.J.[2]; Schram, D.C.[4]; Whyte, D.G.[5]; van Rooij, G.J.[2] [1]FOM Institute for Plasma Physics Rijnhuizen, Nieuwegein, Netherlands; [2]FOM Institute for Plasmaphysics Rijnhuizen, Nieuwegein, Netherlands; [3]Forschung Zentrum Julich, Institut fur Plasma Physik, Julich, Germany; [4]Eindhoven University of Technology, Plasma Physics, Eindhoven, Netherlands; [5]MIT, Plasma Science and Fusion Center, Cambridge, MA, United States	PSTF05-Or2
14:30	**Chemical sputtering of carbon films by argon ions and molecular oxygen between 110 and 850 K** Hopf, Christian; Schlueter, Michael; Jacob, Wolfgang Max-Planck-Institut fuer Plasmaphysik, Garching bei Muenchen, Germany	PSTF05-Or3

NS19 - Self Assembly and Self Organization I
Room: K23

Time	Title	Abs No
13:30	**Unveiling new systematics in the self-assembly of atomic chains on Si(111)** Battaglia, Corsin; Cercellier, Hervé; Monney, Claude; Despont, Laurent; Garnier, Michael Gunnar; Aebi, Philipp Université de Neuchâtel, Institut de physique, Neuchâtel, Switzerland	NS19-Or1
13:45	**Site-selective adsorption of molecules on the Ag/Pt(111) strain-relief pattern and investigation of the local electronic properties** Ruffieux, Pascal[1]; Ait-Mansour, Kamel[1]; Fasel, Roman[1]; Wasserfallen, Daniel[2]; Müllen, Klaus[2]; Groening, Oliver[3] [1]EMPA, nanotech@surfaces, Thun, Switzerland; [2]MPI, Mainz, Germany; [3]EMPA, nanotech@surfaces, Feuerwerkerstr, Switzerland	NS19-Or2
14:00	**Non-templated selective self-assembly of functional molecules on metal surfaces** Du, Shixuan Institute of Physics, Beijing, China	NS19-Or3
14:15	**Self-assembled MnN superstructure** Liu, Xiangdong; Lu, Bin; Iimori, Takushi; Nakatsuji, Kan; Komori, Fumio University of Tokyo, Institute for Solid State Phyiscs, Kashiwa, Chiba, Japan	NS19-Or4
14:30	**Kinetic control in the surface assembly of one-dimensional coordination polymers** Polop, C.[1]; García-Couceiro, U.[2]; Castillo, O.[2]; Welte, L.[3]; Olea, D.[1]; Luque, A.[2]; Gómez-Rodríguez, J. M.[1]; Gómez-Herrero, J.[1]; Zamora, F.[3] [1]Universidad Autónoma de Madrid, Dpto. Física de la Materia Condensada, Madrid, Spain; [2]Universidad del País Vasco, Dpto. Química Inorgánica, Bilbao, Spain; [3]Universidad Autónoma de Madrid, Dpto. Química Inorgánica, Madrid, Spain	NS19-Or5
14:45	**An addressable supramolecular multi-position rotary device** Wintjes, Nikolai[1]; Spillmann, Hannes[1]; Kiebele, Andreas[1]; Stöhr, Meike[1]; Jung, Thomas[2]; Bonifazi, Davide[3]; Cheng, Fuyong[3]; Diederich, François[3] [1]University of Basel, Institut of Physics, Basel, Switzerland; [2]Paul Scherrer Institut, Villigen PSI, Switzerland; [3]ETH-Zürich, Laboratory for Organic Chemistry, Zürich, Switzerland	NS19-Or6
15:00	**Pentacene on Cu(119): molecular orbitals and intermolecular interaction** Annese, Emilia[1]; Viol , Carlos[1]; Zhou, Bo[1]; Fujii, Jun[1]; Vobornik, Ivana[1]; Rossi, Giorgio[1]; Baldacchini, Chiara[2]; Betti, Maria Grazia[2] [1]CNR-INFM TASC National Laboratory, Trieste, Italy; [2]University La Sapienza, Department of Physics, Rome, Italy	NS19-Or7

NS20 - Molecules on Surfaces II

Room: K24

Time	Title	Abs No
13:30	**Energy level positions at metal-molecular wire interfaces** Vázquez, Héctor; Brandbyge, Mads; Jauho, Antti-Pekka Technical University of Denmark DTU, Lyngby, Danmark	NS20-Or1
13:45	**Inelastic electron tunnelling spectroscopy of the ordered PTCDA/Ag(111) interface** Temirov, Ruslan; Lassise, Adam; Tautz, Stefan Jacobs University Bremen, Bremen, Germany	NS20-Or2
14:00	**Probing molecular-level organizational structure and electronic decoupling of tartaric acid domains supported on Ag(111)** Pearl, Thomas[1]; Sant'Agata, Nancy[2]; Lakhani, Amit[1]; DeWitt, Darryl[1]; Luo, Pengshun[1] [1]North Carolina State University, Physics, Raleigh, NC, United States; [2]North Carolina State University, Chemistry, Raleigh, NC, United States	NS20-Or3
14:15	**A jet approach to finely control growth of organic molecular materials for electronic devices** Iannotta, Salvatore[1]; Pallaoro, Alessia[1]; Wu, Yu[2]; Rudolf, Petra[2]; Coppedè, Nicola[3]; Tonezzer, Matteo[4]; Toccoli, Tullio[4] [1]IFN-CNR Institute for Photonics and Nanotechnology, FBK - Trento Division, Povo di Trento, Italy; [2]University of Groeningen, Materials Science Centre, Groeningen, Netherlands; [3]IFN-CNR Institute for Photonics and Nanotechnology, FBK Trento Division, Povo di Trento, Italy; [4]CNR-IFN Institute for Photonics and Nanotechnology, FBK Trento Division, Povo di Trento, Italy	NS20-Or4
14:30	**Gas-phase photoemission study of ferrocene derivatives: insight into electronic structure for applications in Si-based hybrid materials for molecular electronics** Boccia, Alice[1]; Cattaruzza, Fabrizio[1]; Cossi, Maurizio[2]; Alagia, Michele[3]; Decker, Franco[1]; Iozzi, Maria Francesca[2]; Marrani, Andrea Giacomo[1]; Stranges, Stefano[1]; Zanoni, Robertino[1] [1]Università di Roma "La Sapienza", Roma, Italy; [2]Universita' del Piemonte Orientale, Alessandria, Italy; [3]Laboratorio TASC-INFM, Area Science Park, Basovizza (Trieste), Italy	NS20-Or5
14:45	**Adsorption geometry of a large ð conjugated molecule (PTCDA) on different metal surfaces analysed x-ray standing waves: The role of interfacial and intermolecular interactions** Hauschild, Annegret[1]; Henze, Stina[2]; Bauer, Oliver[1]; Temirov, Ruslan[2]; Lassise, Adam[2]; Ikonomov, Julian[1]; Soubatch, Sergue[2]; Cowie, Bruce[3]; Tin-Lin, Lee[3]; Tautz, Stefan[2]; Sokolowski, Moritz[1] [1]University of Bonn, Institute of Physical and Theoretical Chemistry, Bonn, Germany; [2]International University Bremen, School of Engineering and Science, Bremen, Germany; [3]European Synchrotron Radiation Facility, Grenoble, France	NS20-Or6
15:00	**Electrical conductance measurements of single molecular junctions of diamines between two gold electrodes by STM** Fujihira, Masamichi; Omori, Yasuhiro; Tobita, Junichi Tokyo Institute of Technology, Yokohama, Japan	NS20-Or7

SS14 - Electronic Structure, semiconductors III

Room: A2

Time	Title	Abs No
13:30	**Metallic atomic wires on silicon surfaces; phase transition and beyond** Yeom, Han Woong Yonsei University, Seoul, Republic of Korea	SS14-IS1
14:00	**Low-dimensional electrons at metallic semiconductor surfaces** Himpsel, Franz University of Wisconsin Madison, Physics, Madison, United States	SS14-IS2
14:30	**Interactions of lattice gas adatoms on Si(557)-Au** Mark, Andrew G.[1]; MacLeod, Jennifer M.[2]; McLean, Alastair B.[1] [1]Queen's University, Physics, Kingston, Canada; [2]Institut National de Recherche Scientifique-EMT, Varennes, Canada	SS14-Or1
14:45	**Transport properties of electronically stabilized Pb chains grown on vicinal Si(111)** Tegenkamp, Christoph; Czubanowski, Marcin; Pfnür, Herbert Leibniz University Hannover, Hannover, Germany	SS14-Or2
15:00	**STM study of In induced atomic wires on the reconstructed Si(557) surface** Kim, Minkook[1]; Baik, Jaeyoon[1]; Song, In-kyung[1]; Nam, Jeong Ho[1]; Park, Chong-Yun[2]; Oh, Dong-Hwa[3]; Ahn, Joung Real[1] [1]Sungkyunkwan University, BK21 Physics Research Division, CNNC, Suwon, Republic of Korea; [2]Sungkyunkwan University, BK21 Physics Research Division, CNNC, SAINT, Suwon, Republic of Korea; [3]Sungkyunkwan University, BK21 Physics Research Division, Suwon, Republic of Korea	SS14-Or3

SS15 - Oxide Surface I
Room: A3

Time	Title	Abs No
13:30	**Angle-resolved photoemission study of complex quantum matter** Shen, Zhi-xun *Stanford University, Physics, Applied Physics & Stanford Synchronic Lab, Stanford, United States*	SS15-IS1
14:00	**STM and XPS study of ultra-thin epitaxial NiO(001) films grown on Ag(001) by atomic oxygen** Rota, Alberto[1]; Altieri, Salvatore[1]; Valeri, Sergio[2] *[1]S3 National Center CNR-INFM, Physic Department, Modena, Italy; [2]Università degli Studi di Modena e Reggio Emilia, Physic Department, Modena, Italy*	SS15-Or1
14:15	**Surface depolarization of ZnO monolayers on Ag(111)** Tusche, Christian; Meyerheim, Holger L.; Kirschner, Juergen *Max-Planck-Institut f. Mikrostrukturphysik, Halle, Germany*	SS15-Or2
14:30	**Inhomogeneity in surface charge ordering of epitaxial magnetite films exhibiting antiphase domain boundary** Subagyo, Agus; Sasaki, Yuya; Oka, Hirofumi; Sueoka, Kazuhisa *Hokkaido University, Graduate School of Information Science and Technol, Sapporo, Japan*	SS15-Or3
14:45	**Nanostructuring of the Al2O3/TiAl surface** Maurice, Vincent[1]; Noumet, Anne-Gaelle[1]; Despert, Guillaume[1]; Wiame, Frédéric[1]; Marcus, Philippe[1]; Bacos, Marie-Pierre[2] *[1]CNRS/ENSCP, Paris, France; [2]ONERA, Châtillon, France*	SS15-Or4
15:00	**Nano-structures on the surface of yttria stabilized zirconia** Green, Richard G.; Giorgi, Javier B. *University of Ottawa, Chemistry, Ottawa, Canada*	SS15-Or5
15:30	**Manganese oxide nanolayers: Formation of interface- and bulk-type oxide phases** Surnev, Svetlozar[1]; Allegretti, Francesco[1]; Parteder, Georg[1]; Netzer, Falko[1]; Franchini, Cesare[2]; Bayer, Veronika[2]; Podloucky, Raimund[2] *[1]Karl-Franzens University of Graz, Institute of Physics, Graz, Austria; [2]University of Vienna, Department of Physical Chemistry, Vienna, Austria*	SS15-IS2

NS21 - Carbon Nanotubes I
Room: A4

Time	Title	Abs No
13:30	**On the conductance of single walled carbon nanotubes: ballistic, diffusive and localized regimes. Role of the electron-phonon interaction and defects** Flores, Fernando[1]; Sundqvist, P.[1]; Garcia-Vidal, F.J.[1]; Moreno, M.[2]; Gomez-Navarro, C.[2]; Bunch, S.[2]; Gomez-Herrero, J.[2] *[1]Universidad Autónoma de Madrid, Física Teórica de la Materia Condensada, Madrid, Spain; [2]Universidad Autónoma de Madrid, Departamento de Fisica de la Materia Condensada, Madrd, Spain*	NS21-IS1
14:00	**Structure dependent conductive and field emission properties of carbon nanotubes** Andzane, Jana[1]; Prikulis, Juris[1]; Tobin, Joseph[2]; Li, Zhonglai[2]; Holmes, Justin[2]; Erts, Donats[1] *[1]University of Latvia, Institute of Chemical Physics, Riga, Latvia; [2]National University of Ireland, Department of Chemistry, Cork, Ireland*	NS21-Or1
14:15	**Field emission enhancement of MWNTs impregnated with RuO2 and rooted into metal substrate** Kato, Shigeki[1]; Liu, Huarong[1]; Noguchi, Tsuneyuki[2]; Wang, Guangpu[1] *[1]KEK, Tsukuba, Japan; [2]Kaken, Mito, Japan*	NS21-Or2
14:30	**Highly sensitive and tunable terahertz-photon detector using carbon nanotube quantum dots** Kawano, Yukio; Fuse, Tomoko; Uchida, Takeo; Ishibashi, Koji *The Institute of Physical and Chemical Research, Advanced Device Laboratory, Hirosawa, Wako, Saitama, Japan*	NS21-Or3
14:45	**Chirality-sensitive in-situ observation of CVD growth of single-walled carbon nanotubes by Raman spectroscopy** Kobayashi, Yoshihiro[1]; Tazawa, Masaya[2]; Takagi, Daisuke[3]; Homma, Yoshikazu[3]; Suzuki, Satoru[1] *[1]NTT Basic Research Labs., Atsugi, Japan; [2]NTT Basic Research Labs. and Tokyo Univ. Sci., Atsugi, Japan; [3]Tokyo Univ. Sci. and CREST/JST, Tokyo, Japan*	NS21-Or4

EMP08 - Semiconductor Surfaces Quantum Well Structures
Room: A5

Time	Title	Abs No
13:30	**Development of new antimony-based heterostructures for electronic devices** *Magno, R.; Ancona, M. G.; Bennett, B. R.; Boos, J. B.; Champlain, J. G.; Culbertson, J. C.; Glaser, E. R.; Shanabrook, B. V.; Tischler, J. G.* *Naval Research Laboratory, Washington, DC, United States*	EMP08-IS1
14:00	**Ballistic transport at nonuniform magnetic fields in cross junctions of a curved two-dimensional electron gas** *Friedland, K.-J.[1]; Hey, R.[1]; Kostial, H.[1]; Riedel, A.[1]; Ploog, K. H.[1]; Maude, D.[2]* *[1]Paul-Drude Institute, Berlin, Germany; [2]High Magnetic Field Laboratory, CNRS, Grenoble, France*	EMP08-Or1
14:15	**In situ and ex situ X-ray studies of the growth of Ge islands on nano-structured Si(001) substrates** *Richard, Marie-Ingrid[1]; Renaud, Gilles[2]; Schulli, Tobias[2]; Favre-Nicolin, Vincent[2]; Metzger, Till Hartmut[3]; Bauer, Guenther[4]* *[1]CEA-Grenoble, DRFMC/SP2M/NRS, Grenoble, France; [2]CEA-Grenoble, DRFMC/SP2M/NRS, Grenoble Cedex, France; [3]ESRF, Grenoble Cedex, France; [4]Linz university, Linz, Austria*	EMP08-Or2
14:30	**Ferromagnetism and magnetotransport in GaAs structures with InAs quantum dot layer or GaAs/InxGa1-xAs/GaAs quantum well delta-doped with Mn and C** *Kulbachinskii, Vladimir[1]; Gurin, Petr[1]; Vikhrova, Olga[2]; Danilov, Yuri[2]; Zvonkov, Boris[2]* *[1]M.V. Lomonosov Moscow State University, Low Temperature Physics, Moscow, Russian Federation; [2]University of Nizhny Novgorod, Physico-Technical Research Institute, Nizhny Novgorod, Russian Federation*	EMP08-Or3
14:45	**Structural and photoelectrical properties of Si/SiO2 quantum well structures** *Schmidt, Manfred; Schoepke, Andreas; Stegemann, Bert* *Hahn-Meitner-Institut Berlin, Silizium Photovoltaik, Berlin, Germany*	EMP08-Or4
15:00	**Energy gaps in fractional quantum hall states** *Sasaki, Shosuke* *Shizuoka Institute of Science and Technology, Fukuroi, Japan*	EMP08-Or5

Poster Sessions – Poster Group 3
Wednesday 4 July from 15.45 to 17.45 in Hall A1 (exhibition hall)
Presenting authors is present by their poster during the poster sessions.

ASS - Polymeric Materials

ASSP3-01

Electron degradability of poly[methyl(phenyl)silylene] films for nanoresists examined by photoelectron spectroscopy
Zemek, Josef[1]; Jiricek, Petr[1]; Kuritka, Ivo[2]; Schauer, Frantisek[2]
[1]Institute of Physics, Academy of Sciences, Prague, Czech Republic; [2]Polymer Centre of Technology, T. Bata University, Zlin, Czech Republic

ASSP3-02

Synthesize and anti-bacterial properties of silver / polystyrene nanocomposties
Iraji Zad, Azam[1]; Raftari, Maryam[1]; Kazemi, Akhtarolmolook[2]; M. Tilaki, Reza[1]; Mahdavi, Mohamad[1]
[1]Sharif University of Technology, Physics, Tehran, Islamic Republic of Iran; [2]Sharif University of Technology, Biochemistry, Tehran, Islamic Republic of Iran

ASSP3-03

Polymeric materials for space applications
Montero, Isabel[1]; Aguilera, Lydya[1]; Pardo, Ainhoa[1]; de Segovia, José Luis[1]; Sacedón, José Luis[1]; Galán, Luis[2]; Van Esveek, Marc[3]
[1]Instituto de Ciencia de Materiales de Madrid. CSIC, Madrid, Spain; [2]Universidad Autónoma de Madrid, Física Aplicada, Madrid, Spain; [3]European Space Agency, Noordwijk, Netherlands

ASSP3-04

Optical properties of PMMA co-doped with Er3+ and Er3+/Yb3+ Ions
Prajzler, Vaclav[1]; Huttel, Ivan[2]; Spirkova, Jarmila[2]; Lutakov, Oleksiy[2]; Burian, Zdenek[3]
[1]Czech Technical University, Department of Microelectronics, Prague, Czech Republic; [2]Institute of Chemical Technology, Prague, Czech Republic; [3]Czech Technical University, Prague, Czech Republic

ASSP3-05

Experimental evaluation of conducting polymer coatings for attenuator applications in TWT
Kumar, Vikas[1]; Gupta, Anu[2]; Vohra, anil[3]; Srivastava, Vishnu[4]
[1]Kurukshetra University, Electronic Science Department, Kurukshetra, India; [2]Seth Jai Parkash Mukand Lal Inst.of Engg. & Tech., Radaur, Yamunanagar, India; [3]Kurukshetra University, Electronic Science Department, Kurukshetra, Haryana, India; [4]CEERI, MWT Area, Pilani, Rajasthan, India

ASSP3-06

pH sensitive hydrogels of Chitosan and Acrylic Acid for drug delivery
Gupta, Anu[1]; Bisth, Hariender Singh[2]
[1]Seth Jai Parkash Mukand Lal Inst. of Engg. &Tech., Radaur,Yamunanagar, Haryana, India; [2]Amity Institute of Nanotechnology, Amity University, Sector – 125, Noida, UP, India

ASSP3-07

Young's modulus measurement of plasma-polymerized allylamine films by using micro cantilever sensors
Itakura, Akiko[1]; Toda, Masaya[2]; Grinevich, Andrey[3]; Chu, Liqiang[4]; Miyake, Koji[5]; Foerch, Renate[4]; Berger, Ruediger[4]
[1]NatioanI Institute for Materials Science, Tsukuba, Japan; [2]Osaka University, Osaka, Japan; [3]Charls University, Prague, Czech Republic; [4]Max Plank Institute for Polymer Research, Mainz, Germany; [5]National Institute of Advanced Industrial Science, Tsukuba, Japan

ASSP3-08

Photo-sensible azo-polysiloxanes: synthesis and light induced effects
Hurduc, Nicolae[1]; Enea, Ramona[1]; Apostol, Ileana[2]; Damian, Victor[2]
[1]Technical University of Iasi, Department of Natural and Synthetic Polymers, Iasi, Romania; [2]National Institute For Laser, Plasma and Radiation, Laser, Bucharest-Magurele, Romania

ASSP3-09

Polyelectrolyte film characterization by X-ray photoelectron spectroscopy
Toda, Masaya[1]; Itakura, Akiko[2]; Yanagisawa, Junichi[3]; Graf, Karlheinz[1]; Ruediger, Berger[1]
[1]Max Planck Institute for Polymer Research, Mainz, Germany; [2]NatioanI Institute for Materials Science, Tsukuba, Japan; [3]Osaka University, Osaka, Japan

ASSP3-10

Response Surface Analysis of Surface Roughness in Drilling of Glass-Fiber Reinforced Plastic [GFRP] Composite Materials.
Nanjan, Mohan
Manipal Institute of Technology, Mec hanical and Manufacturing, manipal, India

ASSP3-11

On the relationship surface porous structure of thin polymeric membranes with hydrodynamic permeability
Kovalev, Gennadiy; Valiev, Hammat; Zhogin, Valentin; Karnet, Juliya; Pogorelova, Ludmila; Snegireva, Nataliya; Timashev, Rinat; Yanovsky, Yuriy
Institute of Applied Mechanics, Moscow, Russian Federation

ASSP3-11B

Synthesis and properties of fluorescent conjugated polymer for chemosensing application
Yang, Xiaotun[1]; Liu, Feng[2]; Lee, Vee Sin Peter[1]
[1]DSO National Laboratories, Bioengineering Lab, Singapore, Singapore; [2]East China University of Science and Technologies, Shanghai, China

ASSP3-11C

Classification of nanopolymers
Larena, Alicia[1]; Tur, Alejandro[1]; Baranauskas, Vitor[2]
[1]Universidad Politécnica de Madrid, E.T.S. Ingeni, Department of Chemical Industrial Engineering and, Madrid, Spain;
[2]Universidade Estadual de Campinas, Faculdade de Engenharia Eletrica e Computacao, Campinas, Brazil

ASSP3-11D

Modification of polystyrene in order to be comptible with clay & preparing nanocomposite
Shaghaghi, Sara
Iran Polymer and Petrochemical Institute, Teheran, Islamic Republic of Iran

ASSP3-11E

Modification of surface structure and properties of polymers by plasma and ion beam irradiation
Kim, Youn J.; Shin, Kyung S.; Kim, Sung I.; Kim,; Han, Jeon G.
Sungkyunkwan University, Center for Advanced Plasma Surface Technology, Suwon, Republic of Korea

ASS - High Pressure Surface Studies

ASSP3-12

A New UHV / High Pressure Chamber for Diffraction Experiments at Maxlab
Bovet, Nicolas
MAX-lab, beamlins I811, Lund, Sweden

ASS - Oxidation and Corrosion

ASSP3-13

The chemistry of sulfur dioxide and water on zinc and zinc oxide surfaces
Önsten, Anneli; Stoltz, Dunja; Claesson, Thomas; Palmgren, Pål; Göthelid, Mats; Karlsson, Ulf
KTH, Material Physics, Kista, Sverige

ASSP3-14

Abstract withdrawn

ASSP3-15

A system for it in situ studies of atmospheric corrosion of metal films using soft x-ray spectroscopy
Forsberg, Johan[1]; Duda, Laurent[1]; Olsson, Anders[1]; Schmitt, Thorsten[1]; Andersson, Joakim[1]; Nordgren, Joseph[1]; Hedberg, Jonas[2]; Leygraf, Christofer[2]; Aastrup, Teodor[3]; Wallinder, Daniel[3]; Guo, Yinghua[4]
[1]Uppsala Universitet, Department of Physics, Uppsala, Sweden; [2]KTH, Div. Corrosion Science, Stockholm, Sweden; [3]Attana AB, Stockholm, Sweden; [4]Lawrence Berkeley National Laboratory, Advanced Light Source, Berkeley, United States

ASSP3-16

Abstract withdrawn

ASSP3-17

The oxidation of Pd(110)
Westerström, Rasmus[1]; Weststrate, Kees-Jan[1]; Seriani, Nicola[2]; Mittendorfer, Florian[2]; Kresse, Georg[2]; Resta, Andrea[1]; N. Andersen, Jesper[1]; Stierle, Andreas[3]; Torrelles, Xavier[4]; Schmid, Michael[5]; Lundgren, Edvin[1]
[1]Institute of Physics, Department of Synchrotron Radiation Research, Lund, Sverige; [2]Institut für Materialphysik and Center for Computa, Wien, Austria; [3]MPI für Metallforschung, Stuttgart, Germany; [4]Institut the Ciencia de Materials de Barcelona, Barcelona, Spain; [5]Institut fur Allgemeine Physik, Technische Universität, Wien, Austria

ASSP3-18

Surface composition and pitting corrosion resistance of 2205 duplex stainless steel aged at 400 °C
Dos Santos, Fabricio; Nascente, Pedro; Gheno, Simoni; Kuri, Sebastiao
Federal University of Sao Carlos, Department of Materials Engineering, Sao Carlos, Brazil

ASSP3-19

Study of early stages of oxide growth on stainless steel by depth profiling and non-destructive techniques
Mandrino, Djordje; Donik, Crtomir; Jenko, Monika
Institute of Metals and Technology, Ljubljana, Slovenia

ASSP3-20

Thermal regimes of passivative oxide film formation on Al surface: theoretical and experimental study
Belonoshko, Anatoly; Rosengren, Anders; Hultquist, Gunnar
The Royal Institute of Technology, Stockholm, Sweden

ASSP3-21

Abstract withdrawn

ASSP3-22
Nano-copper oxide thin films prepared using sputtering with post-annealing
Chen, Hong-Ying; Lien, Chih-Ming
National Kaohsiung University of Applied Sciences, Department of Chemical and Materials Engineering, Kaohsiung 807, Taiwan

ASS - Thin Films and Depth Profiling

ASSP3-23

Comparing XPS and ToF-ERDA measurement of high-k dielectric materials
Martin, David; Enlund, Johannes; Kappertz, Oliver; Jensen, Jens
Uppsala University, Department of Engineering, Uppsala, Sverige

ASSP3-24

TiO2/TiN/TiO2 heat mirrors by laser ablation of single TiN target
Kawasaki, Hiroharu[1]; Ohshima, Tamiko[1]; Yagyu, Yoshito[1]; Suda, Yoshiaki[1]; Khartsev, Sergey[2]; Grishin, Alexander[2]
[1]Sasebo National College of Technology, Electrical and Electronic Engineering, Sasebo, Nagasaki, Japan; [2]Royal Institute of Technology, Department of Condensed Matter Physics, Stockholm-Kista, Sweden

ASSP3-25

Temperature effect on low-k dielectric thin films studied by ion beam analysis
Jensen, Jens[1]; Possnert, Göran[1]; Zhang, Yanwen[2]
[1]Uppsala Universitet, Department of Engineering, Uppsala, Sverige; [2]Pacific Northwest National Laboratory, Emsl, Richland, United States

ASSP3-26

Depth profiling of Mo/Si multi-nano-layers by DSIMS and HRTEM
Babor, Petr[1]; Potocek, Michal[1]; Voborny, Stanislav[1]; Polcak, Josef[1]; Prusa, Stanislav[1]; Kolibal, Miroslav[1]; Spousta, Jiri[1]; Dittrichova, Libuse[1]; Sobota, Jaroslav[2]; Bochnicek, Zdenek[3]; Roucka, Radek[4]; Kouvetakis, John[4]; Sikola, Tomas[1]
[1]Brno University of Technology, Institute of Physical Engineering, Brno, Czech Republic; [2]Czech Academy of Sciences, Institute of Scientific Instruments, Brno, Czech Republic; [3]Faculty of Science, Masaryk University, Department of General Physics, Brno, Czech Republic; [4]Arizona State University, Department of Chemistry and Biochemistry, Tempe, United States

ASSP3-27

Nuclear reaction microbeam analysis of surface layers deposited in a tokamak divertor
Bergsaker, Henric[1]; Petersson, Per[2]; Emmoth, Birger[3]; Possnert, Göran[2]; Coad, Paul[4]; Likonen, Jaari[5]; Renvall, Tommy[5]
[1]Fusion Plasma Physics, Alfven Laboratory, Kungliga Tekniska Högskolan, Stockholm, Sweden; [2]Tandem Laboratory, Uppsala Universitet, Uppsala, Sweden; [3]KTH MAP/ECS, Electrum, Kista Stockholm, Sweden; [4]Culham Science Centre, Abingdon, United Kingdom; [5]VTT, Espoo, Finland

ASSP3-28

Non-destructive depth profile analysis for surface and buried interface of ge thin film on si substrate by high-energy synchrotron radiation X-ray photoelectron spectroscopy
Yamamoto, Hiroyuki[1]; Yamada, Yoichi[1]; Sasase, Masato[2]; Esaka, Fumitaka[3]
[1]Japan Atomic Energy Agency, Quantum Beam Science Directorate, Tokai, Ibaraki, Japan; [2]The Wakasa-wan Energy Research Center, Tsuruga, Fukui, Japan; [3]Japan Atomic Energy Agency, Nuclear Science and Engineering Directorate, Tokai, Ibaraki, Japan

ASSP3-29

Surface molecular aggregation structure and surface physicochemical properties of poly (fluoroalkyl acrylate) thin films
Takahara, Atsushi[1]; Honda, Koji[1]; Morita, Masamichi[2]
[1]Kyushu University, Institute for Materials Chemistry and Engineering, Fukuoka, Japan; [2]Daikin Industries, Ltd, Osaka, Japan

ASSP3-30

Structure of vacuum-deposited indium films and a universal depth profile curve in sputter-etching process
Baba, Shigeru[1]; Sato, Shogo[2]; Nakano, Takeo[1]
[1]Seikei University, Fac. of Science and Technology, Department of Materials and Life Science, Musashino, Tokyo, Japan; [2]NEC Engineering Ltd., IP Business Div., Abiko, Chiba, Japan

ASSP3-31

Growth and characterization of Fe/CoO bilayers
Opperdoes, Bas[1]; Fleischmann, Claudia[2]; Temst, Kristiaan[3]; Vantomme, André[3]; Van Haesendonck, Chris[4]
[1]KULEUVEN, Physics, Heverlee, Belgium; [2]University of Aachen, Physics, Aachen, Germany; [3]KULEUVEN IKS, Physics, Heverlee, Belgium; [4]KULEUVEN VSM, Physics, Heverlee, Belgium

ASSP3-32

Surface characterization of sol-gel derived scintillating rare-earth doped Lu_2SiO_5 thin films
Mansuy, Christelle[1]; Tomasella, Eric[1]; Grimblot, Jean[2]; Mahiou, Rachid[1]; Nedelec, Jean-Marie[1]
[1]Université Blaise Pascal, Laboratoire des Matériaux Inorganiques, Aubière, France; [2]Université des Sciences et Technologies de Lille, Laboratoire de Catalyse de Lille, Villeneuve d'Ascq, France

ASSP3-33

Electronic structure of stoichiometric and non-stoichiometric eptaxial $FeTiO_3$ films
Fujii, Tatsuo[1]; Takada, Yusuke[1]; Nakanishi, Makoto[1]; Takada, Jun[1]; Kimura, Masahiro[2]; Yoshikawa, Hideki[2]
[1]Okayama University, Okayama, Japan; [2]National Institute for Materials Science, Sayo-cho, Japan

ASSP3-34

Non-destructive layer-by-layer analysis of the surface composition of the binary alloys by Ionization Spectroscopy
Vasylyev, Mykhailo; Tinkov, Vitaliy
Institute for Metal Physics, Department of Atomic Structure and Dynamic Surface, Kiev, Ukraine

ASSP3-35

Effect of a thin TiO_2:Ta interfacial-layer on the photocatlytic performance of the TiO_2/SnO_2:F stacked-films
Okada, Masahisa; Tajima, Kazuki; Yamada, Yasusei; Yoshimura, Kazuki
AIST, Nagoya, Japan

ASSP3-36

Depth-profiling of layered structure in thick anodic aluminum-alloy oxide films observed mainly by Fourier transform infrared microspectroscopy
Tsukahara, Sonoko[1]; Takahashi, Yoshikazu[2]; Sato, Hiroshi[1]; Tsujita, Takeshi[1]; Nakamura, Hiroyuki[1]; Ishikawa, Yuuichi[1]; Misawa, Shunji[3]; Inayoshi, Sakae S.[3]; Ishigure, Fumiaki[3]
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ASSP3-37

Thin films of platinum based metalloporphyrines: sinthesis, photoemission and AFM studies
Ionov, Andrey[1]; Belogorokhov, Alexander[2]; Bozhko, Sergey[1]; Chaika, Alexander[3]; Trophymov, Sergey[3]; Rumyantseva, Valentina[4]; Vyalikh, Denis[5]
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ASSP3-38

Analysis of auger depth profiles by LOGIT
Ogiwara, Toshiya; Tanuma, Shigeo
National Institute for Materials Science (NIMS), Materials Analysis Station, Tsukuba, Japan

ASSP3-39

Ar^+ sputter depth profile determination of low energy nitrogen ion range profiles in GaAs
Malherbe, Johan; Odendaal, Quintin
University of Pretoria, Department of Physics, Pretoria, South Africa

ASSP3-40

Low energy ion scattering on Co/Si(111) system
Prusa, Stanislav; Kolibal, Miroslav; Cechal, Jan; Babor, Petr; Luksch, Jaroslav; Plojhar, Martin; Spousta, Jiri; Urbanek, Michal; Havlicek, Marek; Sikola, Tomas
Brno University of Technology, Institute of Physical Engineering, Brno, Czech Republic

ASSP3-41
Analysis of amorphous-nanocrystalline Si multilayer structures by GIXRD, XR, Raman spectroscopy and HRTEM
Gracin, Davor[1]; Salamon, Kresimir[2]; Milat, Ozren[2]; Gajovic, Andreja[1]; Juraic, Krunoslav[1]
[1]Rudjer Boskovic Institute, Zagreb, Croatia; [2]Institute of Physics, Zagreb, Croatia

ASSP3-42

Characterization of tantalum nitride hard coatings reactively sputtered at low temperature
Panjan, Peter[1]; Zalar, Anton[2]; Kek Merl, Darinka[1]; Cekada, Miha[1]; Kovac, Janez[2]; Panjan, Matjaz[1]
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ASSP3-43

Growth and characterization of CuAlSe2 thin films
Tseng, Bae-Heng; Cheng, Gia-Zeng
National Sun Yat-Sen University, Materials Science and Optoelectronic Engineering, Kaohsiung, Taiwan

ASSP3-44

Alloy formation and thermal stability of Pd-Au/alumina/Cu-Al system
Nemsak, Slavomir; Masek, Karel; Matolin, Vladimir
Faculty of Math. and Physics, Charles University, Department of Surface and Plasma Science, Prague, Czech Republic

ASSP3-45

Effect of dopants on sensitivity enhancement of indium oxide and tin oxide thin film hydrogen gas sensors
Keshmiri, Sayyed-Hossein; Rahmani, Mohammad Bagher; Tayarani, Mohammed Hassan
Ferdowsi University, Microelectronics Research Lab., School of Sciences, Mashhad, Islamic Republic of Iran

ASSP3-46

XPS characterization of TiO_2 layers deposited on quartz plates
Stefanov, Plamen[1]; Shipochka, Maria[1]; Stefchev, Petco[2]; Raicheva, Zdravka[3]; Lazarova, Velichka[3]; Spassov, Lozan[3]
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ASSP3-47

One-Step Fabrication of Flexible Gold Film
Hiroshi, Shiigi; Masashi, Iwamoto; Naonobu, Yoshi; Yojiro, Yamamoto; Tsutomu, Nagaoka
Osaka Prefecture University, FSIC, Sakai, Japan

ASSP3-48
Preparation and characterization of Ti and Zr based oxy-nitride thin films
Braic, Viorel; Balaceanu, Mihai; Zoita, Catalin-Nicolae; Vladescu, Alina; Kiss, Adrian; Braic, Mariana
Atomistilor Str, No.1, Ro-77125, MAGURELE, Romania

ASS - Quantification and Data Interpretation

ASSP3-49

Finite elements modeling of nanomentric multilayers of Cr-CrN with different periods
Restrepo-Parra, Elisabeth[1]; Robledo, Gabriel[1]; Olaya, Jhon Jairo[2]
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ASSP3-50

Characterisation of nano-carbide phases in steels combining EBSD and EDS analyses
Godec, Matjaz[1]; Vecko-Pirtovsek, Tatjana[2]; Jenko, Monika[1]
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ASSP3-51

Surface composition changes in silicon carbide under argon ion bombardment
Krawczyk, Miroslaw; Kosiñski, Andrzej; Sobczak, Janusz W.; Jablonski, Aleksander
Institute of Physical Chemistry PAS, Electrochemistry, Corrosion and Appl.Surf.Sci., Warszawa, Poland

ASSP3-52

Benchmarking of mathematical noise removal techniques used in surface analysis
Odendaal, Quintin
University of Pretoria, Department of Physics, Pretoria, South Africa

ASSP3-53

A set-up for combined QCM-D and optical detection
Edvardsson, Malin[1]; Wang, Guoliang[2]; Svedhem, Sofia[1]; Rodahl, Michael[2]; Kasemo, Bengt[1]
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ASSP3-54

New method for the evaluation of the distribution of surface incline
Kimura, Masahiro[1]; Tanuma, Shigeo[2]; Fukushima, Sei[2]
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ASSP3-55

Weighting effectiveness of growth parameter on film quality for obtaining high quality Movpe-GaAs using analytic hierarchy process (AHP)
Hirose, Shingo; Mori, Kazuo
Aist, Japan, Digital Manufacturing Research Center, Tsukuba, Japan

NS - Self-assembly and Self-organisation

NSP3-56

Theoretical prediction and STM confirmation of the geometrical assembly of PCBM molecules on Au(111)
Gallego, José M[1]; Wang, Yang[2]; Alcami, Manuel[2]; Martín, Fernando[2]; Sánchez, Luis[3]; Martín, Nazario[3]; Écija, David[4]; Otero, Roberto[4]; Miranda, Rodolfo[4]
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NSP3-57

Surface topography evolution on Si and Ge surfaces due to ion beam erosion: role of secondary ion beam parameters
Ziberi, Bashkim; Frost, Frank; Lutz, Teresa; Tartz, Michael; Neumann, Horst; Rauschenbach, Bernd
Leibniz-Institut für Oberflächenmodifizierung, Leipzig, Germany

NSP3-58

Self-assembly of iron oxide nanoparticles as observed by time-resolved grazing incidence small angle x-ray scattering
Siffalovic, Peter[1]; Majkova, Eva[1]; Chitu, Livia[1]; Jergel, Matej[1]; Luby, Stefan[1]; Satka, Alexander[2]; Roth, Stephan[3]
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NSP3-59

XPS and NEXAFS investigation on the structure of two dipeptides studied as models of self-assembling oligopeptides: comparison between experiments and theory
Battocchio, Chiara[1]; Iucci, Giovanna[1]; Dettin, Monica[2]; Monti, Susanna[3]; Carravetta, Vincenzo[3]; Polzonetti, Giovanni[1]
[1]University of Rome "Roma Tre", Physics, Rome, Italy; [2]University of Padova, Department of Chemical Process Engineering, Padova, Italy; [3]CNR-IPCF, Pisa, Italy

NSP3-60

Self-organization of adenine dimer chains on Cu(110) surfaces
Preuss, Martin[1]; Leitsmann, Roman[1]; Bechstedt, Friedhelm[1]; Schmidt, Wolf Gero[2]
[1]Friedrich-Schiller-Universität Jena, Institut für Festkörpertheorie und -optik, Jena, Germany; [2]Universität Paderborn, Theoretische Physik, Paderborn, Germany

NSP3-61

STM and LEED studies of clean and Gd-decorated Si(hhm) surfaces
Myagkov, A.N.[1]; Chaika, A.N.[1]; Ionov, A.M.[1]; Bozhko, S.I.[1]; Abrosimov, N.V.[2]
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NSP3-62

Polystyrene colloidal sphere selective deposition on Si with different surface wettability
Shimamoto, Naonobu; Harada, Takafumi; Tanaka, Manabu; Tanii, Takashi; Nishide, Hiroyuki; Ohdomari, Iwao
Waseda University, Tokyo, Japan

NSP3-63

Self-assembly of supramolecular nano architectures on surfaces: a LEEM study
Khokhar, Fawad Salman; van Gastel, Raoul; Poelsema, Bene
University of Twente, Solid State Physics, Enschede, Netherlands

NSP3-64

Chiral ordering process in the adsorption of organic molecules on metal surfaces: Tartaric acid on Cu(110)
Ayissi, Serge; Lin, Haiping; Hofer, Werner
University of Liverpool, Liverpool, United Kingdom

NSP3-65

Self-assembled monolayer of porphyrin-functionalized oligo(phenylene-ethynylene) on Au(111)
Watcharinyanon, Somsakul[1]; Moons, Ellen[1]; Nilsson, Daniel[2]; Martensson, Jerker[2]; Shaporenko, Andrey[3]; Zharnikov, Michael[3]; Johansson, Lars[1]
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NSP3-66

Self-assembly and electronic effects of trimetallic nitride template fullerenes on different surfaces studied by STM and STS
Norenberg, Christiane[1]; Leigh, D.F.[2]; Cattaneo, D.[3]; Li Bassi, A.[3]; Owen, J.H.G.[4]; Porfyrakis, K.[2]; Briggs, G.A.D.[2]
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NSP3-67

He* interaction with soft matter surfaces: ultra thin L-Cysteine films
Lavagnino, Luca[1]; Moroni, Riccardo[1]; Bisio, Francesco[1]; De Renzi, Valentina[2]; Pasquali, Luca[2]; Canepa, Maurizio[1]; Mattera, Lorenzo[1]
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NSP3-68

Assemblies of Blue-emitting CdSe Nanocrystals in Redox Copper Phenanthroline-based Polymeric Chains
Lin, Kuan-Jiuh
National Chung Hsing University, Chemistry, Taichung, Taiwan

NSP3-69

The study of self-assembly thin film by vary size of surface modified nanoparticles
Wang, Dau-Chung[1]; Chen, Gen-You[1]; Chen, Shinn-Hwa[1]; Chen, Ken-Yen[1]; Wun, Sin-Jhu[2]
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NSP3-70

Ordered growth of Fe and Pt nanoclusters on the vicinal surface Au(788)
Nahas, Yasmine; Repain, Vincent; Rohart, Stanislas; Girard, Yann; Chacon, Cyril; Tejeda, Antonio; Rousset, Sylvie
Matériaux et Phénomènes Quantiques, Université Paris 7, Paris, France

NSP3-71

Iron phthalocyanine self-assembled films on Ag(110)
Palmgren, Paul[1]; Angot, Thierry[2]; Nlebedim, Ikenna[1]; Layet, Jean-Marc[2]; LeLay, Guy[3]; Göthelid, Mats[1]
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NSP3-72

Fabrication of porous alumina array with under 30nm interpore distance formed in mixed acid
Song, Kwang Min; Park, Joonmo; Ryu, Sang-Wan
Chonnam National University, Physics, Gwangju, Republic of Korea

NSP3-73

Unit cell size determination for SAMs of biphenyl-based thiols on Au (111) surfaces by LEED
Kazempoor, Michel; Pirug, Gerhard
Forschungszentrum Jülich GmbH, Institut für Bio- und Nanosysteme (IBN3) and CNI, Jülich, Germany

NSP3-74

Influence of dipolar fields in molecular monolayer phases: sub-phthalocyanine/Ag(111)
Rolf, Bertschinger[1]; Aebi, Philipp[2]; Jung, Thomas A.[1]
[1]Paul Scherrer Institute, Laboratory for Micro- and NanotechnologyOBLA/211, Villigen, Switzerland; [2]Institut de Physique, Université de Neuchâtel, Neuchâtel, Switzerland

NSP3-75

Ion beam induced pattern formation due to controlled self-organization
Ziberi, Bashkim; Lutz, Teresa; Fechner, Renate; Hirsch, Dietmar; Zimmer, Klaus; Frost, Frank; Rauschenbach, Bernd
Leibniz-Institut für Oberflächenmodifizierung, Leipzig, Germany

NSP3-76

Abstract withdrawn

NSP3-77

Preparation of SiO/Si02 superlattice
Bernstorff, Sigrid[1]; Pivac, Branko[2]; Capan, Ivana[2]; Dubcek, Pavo[2]; Janicki, Vesna[2]; Zorc, Hrvoje[2]; Radic, Nikola[2]; Zulim, Ivan[3]; Betti, Tihomir[3]
[1]Sincrotrone Trieste, Basovizza (Trieste), Italy; [2]R. Boskovic Institute, Zagreb, Croatia; [3]University of Split, FESB, Split, Croatia

NSP3-78

Supramolecular cavitand-based host-guest assemblies on surfaces
Palma, Matteo[1]; Yebeutchou, Roger[2]; Tancini, Francesca[3]; Samorì, Paolo[4]; Dalcanale, Enrico[3]
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NS - Nanotechnology & Fabrication

NSP3-79

Fabrication of zone plate optics for x-ray wavelengths
Holmberg, Anders; Lindblom, Magnus; Reinspach, Julia; Vogt, Uli; Hertz, Hans M.
Royal Institute of Technology, Applied Physics/ Biomedical and X-Ray Physics, Stockholm, Sweden

NSP3-80

Structurability enhancement of nanoparticle-doped SU-8 by soft lithography techniques
Martin, Cristina[1]; Llobera, Andreu[2]; Lillemose, Michael[3]; Blagoi, Gabriela[3]; Boisen, Anja[3]; Pérez-Murano, Francesc[2]
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NSP3-81

Rapid fabrication of silica thin films having well-ordered mesopores through electron beam irradiation
Hozumi, Atsushi; Kimura, Tatsuo
Aist, Nagoya, Japan

NSP3-82

Tapping mode SPM local oxidation nanolithography with sub-10 nm resolution
Nishimura, Shinya[1]; Ogino, Takumi[1]; Takemura, Yasushi[2]; Shirakashi, Jun-ichi[1]
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NSP3-83
Some investigations on the wet etching of nanostructures on crystalline insulators and semiconductors
Tellier, Colette; Leblois, Thérèse; Akil, Mariam
Institute FEMTO-ST, DCEP, Besançon, France

NSP3-84

Abstract withdrawn

NSP3-85

Large area sub-µm structuring of gold layers with microcontact printing using 4" PDMS stamps
Lausecker, Elisabeth[1]; Schwinger, Wolfgang[1]; Bergmair, Iris[2]; Mühlberger, Michael[1]; Schöftner, Rainer[1]
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NSP3-86

Fabrication of gold-nanoparticle-infiltrated inverse opal structures with photonic bandgap and surface plasmon resonance characteristics
Chen, H. L.[1]; Lin, Y. H.[1]; Chuang, S. Y.[1]; Wan, D. H.[1]; Lin, C. H.[2]
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NSP3-87

High resolution nano-patterns
Peng, Changsi[1]; Tan, Chunlei[1]; Pessa, Markus[1]; Petryakov, Vladimir N.[2]; Verevkin, Yury K.[2]; Wang, Zuobin[3]; Olaizola, Santiago M.[4]; Berthou, Thierry[5]
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NSP3-88

Fine patterning of high refractive index glass by nanoimprint lithography
Okinaka, Motoki[1]; Ichinose, Yoshifumi[2]; Tsushima, Hiroshi[3]; Tachibana, Toshiyuki[2]; Tsukagoshi, Kazuhito[1]; Aoyagi, Yoshinobu[4]
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NSP3-89

High Throughput Manufacturing Process of Probes for Sub-50nm Scanning Thermal Microscopy
Richter, Christoph[1]; Engl, Wolfgang[1]; Beuer, Susanne[2]; Rommel, Mathias[2]; Sulzbach, Thomas[1]
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NSP3-90

Design of a new micro x-y stage with high efficiency comb-drives actuators
Chen, Xing; Lee, Dong Weon
Chonnam National University, Gwangju, Democratic Peoples Republic of Korea

NSP3-91

AFM nanolithography of metal thin films capped with insulating layers and its application to fabrication of planar-type magnetic tunnel junction
Hasegawa, Shunsuke[1]; Yamada, Shogo[1]; Ishibashi, Yoshifumi[1]; Yamada, Tsutomu[1]; Shirakashi, Jun-ichi[2]; Takemura, Yasushi[1]
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NSP3-92

Nanoscale molecular patterning on artificially fabricated nanoscale structured Al surfaces
Kato, Hitoshi[1]; Takemura, Susumu[1]; Kimura, Shogo[1]; Okumura, Takayuki[1]; Kobayakawa, Daisuke[1]; Watanabe, Yohei[1]; Sugiyama, Takeharu[1]; Hiramatsu, Tomoyasu[1]; Nanba, Noriyuki[1]; Nishikawa, Osamu[2]; Taniguchi, Masahiro[2]
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NSP3-93

One-step preparation of positively charged nanoraspberry
Shiigi, Hiroshi; Yamamoto, Yojiro; Takeda, Shintaro; Nagaoka, Tsutomu
Osaka Prefecture University, Sakai, Japan

NSP3-94

Towards nanopatterned DSA® electrodes - characterization at the nanoscale
Malmgren, Christine[1]; Bäckström, Joakim[2]; Hummelgård, Magnus[1]; Olin, Håkan[1]
[1]Mid Sweden University, Engineering Physics, Sundsvall, Sverige; [2]Permascand AB, Ljungaverk, Sverige

NSP3-95

High-density data storage using diamond probe technique
Lysenko, Oleg; Novikov, Nikolai; Grushko, Vladimir; Shcherbakov, Alexander; Katrusha, Andriy; Ivakhnenko, Sergiy
Institute for Superhard Materials, Kiev, Ukraine

NSP3-96

Nonvolatile memory device based on electrostatically telescoping nanotube
Kang, Jeong Won; Hwang, Ho Jung
Chung-Ang University, Seoul, Republic of Korea

NSP3-97

Nanoscale patterning of Si surface using SPM scratching
Ogino, Takumi; Nishimura, Shinya; Shirakashi, Jun-ichi
Tokyo University of Agriculture and Technology, Dept. of Electrical and Electronic Engineering, Tokyo, Japan

NSP3-98

Nano fabrication of DNA nano wires template using an atomic force microscope
Futoshi, Iwata[1]; Yu, Azami[1]; Hidenobu, Nakao[2]; Akira, Sasaki[1]
[1]Shizuoka University, Hamamatsu, Japan; [2]National Institute for Materials Science, Tukuba, Japan

NSP3-99

Controlling of the morphology of Ni-Al LDHs using microemulsion-mediated hydrothermal synthesis
Zhao, Yun; Xiao, Fenfei; Jiao, Qingze
Beijing Institute of Technology, School of Chemical Engineering and the Environment, Beijing, China

NSP3-100

Micro/nano structure fabrication on polyimide surface by electron beam induced dry etching
Chen, Xuekang[1]; Chen, Jiongshu[1]; Yang, Jianping[1]; Yu, Rong[1]; Han, Weihua[2]
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NSP3-101

Surface modifications by van der waals forces
Olsen, Martin; Hummelgård, Magnus; Olin, Håkan
Mid Sweden University, Engineering Physics, Sundsvall, Sverige

NSP3-102

Frictional properties of boundary-lubricated nanopatterned surfaces
Capozza, Rosario[1]; Fasolino, Annalisa[2]; Vanossi, Andrea[1]; Ferrario, Mauro[1]
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NSP3-102B

Monte-Carlo simulations of electronic plasma relaxation in nanometric swith heavy ion tracks
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NSP3-102C

The magnetic sensor using Bi-Pb-Sr-Ca-Cu-O(BPSCCO) particles prepared by shock-compacted technique
Kezuka, Hiroshi[1]; Fujita, Hiroyuki[2]; Itoh, Mineo[2]; Matsumoto, Hitoshi[3]
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NS - Nanowires: Characterization and Applications

NSP3-103

Abstract withdrawn

NSP3-104

Conductance of Nanolinks and Phase-Shifts
Makoshi, Kenji; Shima, Nobuyuki; Otsuka, Yasuhiro
University of Hyogo, Graduate School of Material Science, Kamigori, Hyogo, Japan

NSP3-105

Determination method of energy band gap of carbon nanotube by high temperature dependence of current
Maeda, Masatoshi[1]; kamimura, Takafumi[2]; Iwasaki, Shin[2]; Matsumoto, Kazuhiko[3]
[1]University of Tsukuba, Tsukuba, Japan; [2]Osaka University, Ibaraki, Japan; [3]Osaka University, CREST/JST, Ibaraki, Japan

NSP3-106

Conductance characteristics of ferromagnetic metal nano constrictions in solution
Konishi, Tatsuya; Kiguchi, Manabu; Murakoshi, Kei
Hokkaido University, Department of Chemistry, Graduate School of Scienc, Sapporo, Japan

NSP3-107

Si Nanowires and one-dimensional electron confinement on the 4H-SiC (1-102) surface
Virojanadara, C.[1]; Hetzel, M.[1]; Johansson, L. I.[2]; Choyke, W. J.[3]; Starke, U.[1]
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NSP3-108

Synthesis and photoconductive properties of single-walled carbon nanotubes coated with titania by liquid phase deposition method
Hsu, Ming Chi[1]; Sun, Yu Ming[1]; Hon, Min Hsiung[1]; Leu, Ing Chi[2]
[1]National Cheng Kung University, Tainan, Taiwan; [2]National United University, Miao-Li, Taiwan

NSP3-109

Epitaxial metal nanowires on flat and vicinal Si surfaces
Block, Tammo; Rönspies, Jan; Pfnür, Herbert
Leibniz-Universität Hannover, Institut für Festkörperphysik, Abt. Oberflächen, Hannover, Germany

NSP3-110

1/f Noise characteristic of ZnO nanowire FET
Lee, Jae Woo[1]; Jang, Do Young[1]; Ji, Hyunjin[1]; Ryu, Hye Yeon[1]; Kim, Gyu Tae[1]; Lee, Jung-Il[2]; Ghibaudo, Gerard[3]
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NSP3-111

Dynamic force microscopy and X-ray photoemission spectroscopy studies of nanowire fabrication on a highly oriented line-structure of Al surface
Kato, Hitoshi; Watanabe, Yohei; Takemura, Susumu; Nakano, Ryu; Sugiyama, Takeharu; Shimada, Kazuhiro; Hiramatsu, Tomoyasu; Nanba, Noriyuki; Matsui, Kazunori
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NSP3-112

Wavelength-dependent second harmonic excitation spectroscopy of copper nanowire arrays on the (110) faceted faces of NaCl crystals
Locharoenrat, Kitsakorn; Sano, Haruyuki; Mizutani, Goro
Japan Advanced Institute of Science and Technology, Nomi, Japan

NSP3-113

Tunable double quantum dots in Ge/Si core-shell nanowires
Roddaro, Stefano[1]; Fasth, Carina[2]; Fuhrer, Andreas[2]; Samuelson, Lars[2]; Xiang, Jie[3]; Lieber, Charles M.[3]
[1]Lund University NSC & NEST-INFM-CNR, Solid State Physics, Lund, Sweden; [2]Lund University - Nanometer Structure Consortium, Solid State Physics, Lund, Sweden; [3]Harvard University, Department of Chemistry and Chemical Biology, Cambridge, MA, United States

NSP3-114

Structures of 17,19-hexatriacontadiyne and sashlike polydiacetylene monolayers on MoS_2(0001) studied by UHV-STM
Osamu, Endo[1]; Takashi, Sera[1]; Masanori, Suhara[1]; Hiroyuki, Ozaki[1]; Yasuhiro, Mazaki[2]
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NSP3-115

Electron spectroscopic studies of nanowires formed by (GaMn)As growth on GaAs
Adell, Johan[1]; Ulfat, Intikhab[2]; Sadowski, Janusz[3]; Ilver, Lars[1]; Kanski, Janusz[1]
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NSP3-116

Magnetoresistance in quantum interference regime of single walled carbon nanotube
Kamimura, Takafumi[1]; Ohno, Yasuhide[2]; Matsumoto, Kazuhiko[2]
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NSP3-117

Direct observation of the dynamic fluctuation on nano wire: Si(111)-5×2-Au
Kang, Pilgyu; Yeom, Hanwoong
Ceter for atomic wires and layers, Institute of physics and applied physics, Seoul, Republic of Korea

NSP3-118

Electronic structure of Cu nanowires on Cu(111) surfaces
Diaz-Tendero, Sergio[1]; Olsson, Fredrik E.[2]; Borisov, Andrey G.[1]; Gauyacq, Jean-Pierre[1]
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NSP3-119

First-principles study on capacitor made of silicon (111) nano-slabs
Kageshima, Hiroyuki; Fujiwara, Akira
NTT Basic Research Laboratories, Atsugi, Japan

NSP3-120

Shear stress measurements on inas nanowires by afm manipulation
Conache, Gabriela[1]; Gray, Struan[1]; Bordag, Michael[2]; Ribayrol, Aline[1]; Froberg, Linus[1]; Samuelson, Lars[1]; Pettersson, Hakan[3]; Montelius, Lars[1]
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NSP3-121

Magnetic force microscopy sensors using iron-filled carbon nanotubes
Mühl, Thomas; Wolny, Franziska; Weissker, Uhland; Winkler, Andreas; Leonhardt, Albrecht; Büchner, Bernd
IFW Dresden, Dresden, Germany

NSP3-122

Novel room-temperature functional analogue and digital nanoelectronic circuits based on three-terminal ballistic junctions and planar quantum wires
Sun, Jie[1]; Wallin, Daniel[2]; Brusheim, Patrik[1]; He, Yuhui[1]; Maximov, Ivan[1]; Wang, Zhanguo[3]; Xu, Hongqi[1]
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NSP3-123

Single crystalline silicon tetraboride nanowires
YUN, S.H.[1]; Lee, H.S[2]; Kwon, Y.H.[3]; Yang, C.W.[4]; He, Z.[5]; Zou, X.[5]; Karlsson, U.O.[1]
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NSP3-123B

See NS24-Or7

NSP3-123C

Three-dimensional simulation and experimental study on the enhanced on/off current ratio in silicon nanowire field-effect transistors
Choi, Chang-Yong[1]; Jo, Yeong-Deuk[1]; Park, Joon-Sung[1]; Cho, Won-Ju[1]; Koo, Sang-Mo[1]; Li, Qiliang[2]; Edelstein, Monica D.[2]; Suehle, John S.[2]; Richter, Curt A.[2]; Vogel, Eric M.[3]
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NS - Nanowires: Fabrication

NSP3-124

Fabrication of carbon nanotube bridges in v-groove channel using dielectrophoresis
An, Taechang; Kim, Pan Kyeom; Ryu, Hyobong; Lim, Geunbae
POSTECH, Pohang, Republic of Korea

NSP3-125
Synthesis and characterization of ni nanowires, electrodeposited into the cylindrical pores of polycarbonate membranes
Nabiyouni, Gholamreza[1]; Naderi, Nima[1]; Kazeminezhad, Iraj[2]
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NSP3-126

Electrodeposition of silica nanowire and nanotube array in nanoporous matrix
Pastare, Inese[1]; Katkevics, Juris[2]; Viksna, Arturs[2]; Zauls, Vismants[3]; Petkov, Nikolay[4]; Holmes, Justin[4]; Erts, Donats[1]
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NSP3-127

GaAs:Mn nanowires formation during molecular beam epitaxial growth of GaMnAs with segregation of MnAs nano-islands
Sadowski, Janusz[1]; Dluzewski, Piotr[2]; Kret, Slawomir[2]; Janik, Elzbieta[2]; Lusakowska, Elzbieta[2]; Kanski, Janusz[3]; Adell, Johan[3]; Tang, Dong[4]
[1]Lund University, MAX-Lab, Lund, Sweden; [2]Institute of Physics, Polish Academy of Sciences, Warsaw, Poland; [3]Chalmers University of Technology, Applied Physics, Göteborg, Sweden; [4]FEI Co, Eindhoven, Netherlands

NSP3-128

Control of position and diameter of Si nanowires grown from metal catalyst nanoparticles obtained by galvanic displacement deposition
San Paulo, Alvaro; Gutes, Albert; Perez-Murano, Francesc
Instituto de Microelectronica de Barcelona - CSIC, Bellaterra, Spain

NSP3-129

Control growth of radial GaN-carbon nanotubes heterojunction nanowires
Hsiao, Hsi-Lien; Lee, P-H; Liu, Y-J; Liu, Z-Y
Tunghai University, Department of Physics, Taichung, Taiwan

NSP3-130

The effect of heating time on growth of Na_xWO_3 nanowires
Azimirad, Rouhollah; Goudarzi, Mehdi; Akhavan, Omid; Moshfegh, Alireza
Sharif University of Technology, Department of Physics, Tehran, Islamic Republic of Iran

NSP3-131

Synthesis of tapered SiGe nanowires array for field emission display applications
Hsiao, Hsi-Lien; Chen, C-Y
Tunghai University, Department of Physics, Taichung, Taiwan

NSP3-132

GaAs nanowires: evolution of morphology during MBE growth
Plante, Martin; LaPierre, Ray
McMaster University, Engineering Physics, Hamilton, Canada

NSP3-133

Metallic micro- and nanowires formed on the base of polymer matrixes
Bedin, Sergey[1]; Zagorski, Dmitri[2]; Vilenski, Alexander[2]; Mchedlishvili, Boris[2]
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NSP3-134

Fabrication of thermoelectric bismuth telluride nanowires by anodic alumina membranes
Li, Shanghua; Zhang, Shuo; Muhammed, Mamoun; Liang, Yibin; Toprak, Muhammet
KTH, MSE, Stockholm, Sweden

NSP3-135

Effect of growth conditions on the morphological diversity of AlN crystals
G. Reza, yazdi; M, Syvajarvi; Rositza, Yakimova
Linkoping University, Linkoping, Sweden

NSP3-136

Ion-assisted growth of aligned silicon nanocones and nanowhiskers with indium as a growth promoter
Bettge, Martin[1]; Abraham, Daniel[2]; Burdin, Stephan A.[1]; MacLaren, Scott W.[1]; Petrov, Ivan G.[1]; Sammann, Ernest A.[1]
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NSP3-137

Al nanowires fabricated by evaporation of Al into low aspect-ratio pores of porous alumina templates
Kokonou, Maria[1]; Rebholz, Claus[1]; Doumanidis, Charalambos[2]; Giannakopoulos, Konstantinos[3]; Travlos, Anastasios[3]; Gunduz, Ibrahim Emre[1]
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NSP3-138

Interconnect method for molecular devices using chemical reactions
Terao, Jun[1]; Sato, Kimihiko[2]; Kambe, Nobuaki[2]; Taniguchi, Masateru[3]; Nojima, Yoshihiro[3]; Yokota, Kazumichi[3]; Kawai, Tomoji[3]
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NSP3-139

MBE fabrication of Mn_xP nanowhiskers
Bouravleuv, Alexei[1]; Bouravleuv, Alexei[2]; Sosiati, Harini[3]; Ishibashi, Takayuki[1]; Kuwano, Noriyuki[3]; Sato, Katsuaki[1]
[1]Tokyo University of Agriculture and Technology, Tokyo, Japan; [2]A.F. Ioffe Physico-Technical Institute, RAS, St.Petersburg, Russian Federation; [3]Kyushu University, Fukuoka, Japan

NSP3-140

Preferential phase-boundary nucleation (PPBN) a generalized description of vapor-liquid-solid (VLS) like growth
Wacaser, Brent A.[1]; Dick, Kimberly A.[1]; Johansson, Jonas[1]; Karlsson, Lisa S.[2]; Samuelsson, Lars[1]; Deppert, Knut[1]
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NSP3-141

Cross-junction arrays of SWCNTs and V_2O_5 nanowires; fabrication via two-step soft lithography and electrical characterization
Kim, Yong-Kwan[1]; Shin, Gunchul[1]; Park, Jaehyun[1]; Ha, Jeong Sook[1]; Ryu, Hye Yeon[2]; Kim, Gyu Tae[2]
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NSP3-142

Low-temperature synthesis of single crystalline zinc nanowires by physical vapor deposition (PVD)
Kast, Michael[1]; Schroeder, Philipp[1]; Hyun, Y. J.[2]; Pongratz, Peter[3]; Brückl, Hubert[1]
[1]Austrian Research Centers GmbH - ARC, Nano-System-Technologies, Vienna, Austria; [2]Vienna University of Technology, Solid State Electronics Institute, Vienna, Austria; [3]Vienna University of Technology, Institute for Solid State Physics, Vienna, Austria

NSP3-143

Reversible formation of gold colloid microwires via application of inhomogeneous electric fields
Sweetman, Adam; Moriarty, Philip
The University of Nottingham, Physics and Astronomy, Nottingham, United Kingdom

SS - Electronic Structure: Semiconductors

SSP3-144

Characterization of the F-center in ZnO from first principles calculations
Eriksson, Henrik; Mitev, Pavlin; Hermansson, Kersti
Uppsala University, Materials Chemistry, Uppsala, Sverige

SSP3-145

Abstract withdrawn

SSP3-146

Characterisation of nitrogen defects in compound semiconductors by synchrotron-based NEXAFS spectroscopy
Petravic, Mladen
University of Rijeka, Department of Physics, Rijeka, Croatia

SSP3-147

STM study on one-dimensional structures of Pb on Si(557)
Morikawa, Harumo; Kim, Keun Su; Jung, Duk Yong; Yeom, Han Woong
Yonsei University, Institute of Physics and Applied Physics, Seoul, Republic of Korea

SSP3-148

Mixed dimensions in the electronic band structure of metallic nanowires: Pb/Si(557)
Kim, Keun Su; Morikawa, Harumo; Choi, Won Hoon; Yeom, Han Woong
Institute of Physics and Applied physics, Center for Atomic Wires and Layers, Korea, Republic of Korea

SSP3-149

Experimental and theoretical study of Pb/Si(111) mosaic phase
Svec, Martin[1]; Jelinek, Pavel[2]; Shukrynau, Pavel[2]; Chab, Vladimir[2]
[1]Institute of Physics, ASCR, Prague, Czech Republic; [2]Institute of Physics, ASCR, Thin Films 26, Prague, Czech Republic

SSP3-150

Interaction of H and H_2 with SiC(001) surfaces: An ab-initio investigation
Peng, Xiangyang; Krüger, Peter; Pollmann, Johannes
Universität Münster, Institut für Festkörpertheorie, Münster, Germany

SSP3-151

Analysis of electronic and chemical properties of gas sensitive n-type InP epitaxial surfaces
Wierzbowska, Katarzyna[1]; Adamowicz, Boguslawa[2]; Lauron, Bernard[1]; Bideux, Luc[1]; Pauly, Alain[1]; Zywicki, Janusz[3]
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SSP3-152

Thickness-dependent electronic structure of Dy silicide films grown on a Si(111) surface
Imai, Ayako[1]; Mawatari, Kenji[2]; Kakuta, Haruya[1]; Harasawa, Ayumi[3]; Okuda, Taichi[3]; Ueno, Nobuo[1]; Sakamoto, Kazuyuki[1]
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SSP3-153

Mn 3d electrons in the valence band of Mn/GeMnTe- a photoemission study
Pietrzyk, Mieczyslaw[1]; Kowalski, Bogdan[1]; Orlowski, Bronislaw[1]; Knoff, Wojciech[1]; Osinniy, Victor[1]; Kowalik, Iwona[1]; Story, Tomasz[1]; Johnson, Robert[2]
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SSP3-154

Point defects on the (110) surfaces of InP, InAs and InSb: a comparison with bulk
Höglund, Andreas[1]; Castleton, Christopher[2]; Susanne, Mirbt[1]
[1]Fysiska Instutitionen, Uppsala, Sweden; [2]Materialkemi, Uppsala, Sweden

SSP3-155

First-principles calculations on STM images for subsurface dopants
Hirayama, Motoi; Nakamura, Jun; Natori, Akiko
The University of Electro-Communications, Department of Electronic-Engineering, Tokyo, Japan

SSP3-156

Angular resolved photoemission study of two phases of the GaAs(100)-c(4x4) surface
Jiricek, Petr; Cukr, Miroslav; Bartos, Igor
Institute of Physics, AVCR, Prague, Czech Republic

SSP3-157

Chemical states of amorphous and crystalline $Ge_2Sb_2Te_5$ investigated by high resolution x-ray photoemission spectroscopy
Jung, Min-Cherl[1]; Lee, Young Mi[1]; Shin, Hyun-Joon[1]; Ko, Changhun[2]; Han, Moonsup[2]; Kim, Kihong[3]; Chung, Jae-Gwan[3]; Kuh, Bong Jin[4]; Ha, Yong Ho[4]
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SSP3-158

Surface-core-level-shifts of Bi-adsorbate-stabilized (2x1) reconstructions of InP(100) and GaAs(100) surfaces
Komsa, Hannu-Pekka[1]; Punkkinen, Marko P. J.[2]; Laukkanen, Pekka[2]; Ahola-Tuomi, Marja[2]; Väyrynen, Juhani[2]; Rantala, Tapio T.[1]
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SSP3-159

The electron and crystalline structure features of ion-synthesized nanocomposite with Si nanocrystals in sapphire matrix revealed by electron spectroscopy

Kovalev, Anatoly[1]; Wainstein, Dmitry[1]; Tetelbaum, David[1]; Mikhaylov, Alexey[1]; Belov, Alexey[2]; Pavesi, Lorenzo[3]; Ferraioli, Luigi[3]
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SSP3-160

Ab initio calculation of the structure, electronic states and the phonon dispersion of the BSb(110) surface

Bagci, Sadik[1]; Duman, S.[1]; Tutuncu, Huseyin[1]; Srivastava, Gyaneshwar[2]
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SSP3-161

Experimental and theoretical investigation of electronic and atomic structure of Si-nanocrystals formed in sapphire by ion implantation

Kovalev, Anatoly[1]; Wainstein, Dmitry[1]; Tetelbaum, David[1]; Mikhailov, Alexey[1]; Bulutay, Ceyhun[2]; Aydinli, Atilla[2]; Finstad, Terje[3]; Foss, Steinar[3]
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SSP3-162

Resonant photoemission studies of Gd/PbGdTe

Pietrzyk, Mieczyslaw[1]; Orlowski, Bronislaw[1]; Kowalski, Bogdan[1]; Dziawa, Piotr[1]; Osinniy, Voctor[1]; Story, Tomasz[1]; Taliashvili, Badri[1]; Johnson, Robert[2]
[1]Institute of Physics, Polish Academy of Sciences, Warsaw, Poland; [2]Institute of Experimental Physics, Hamburg, Germany

SSP3-163

Formation of antiphase boundaries on the clean Ge(100)2×1 and Si(100)2×1 surfaces

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SSP3-164

Cobalt phthalocyanine on Au(001)-5x20 surface: morphology and electronic structure studied by UPS, XPS, Resonant PE and NEXAFS

Molodtsova, Olga[1]; Aristov, Victor[2]; Maslyuk, Volodymyr[3]; Vyalikh, Denis[4]; Zhilin, Victor[2]; Ossipyan, Yurii[2]; Bredow, Thomas[5]; Mertig, Ingrid[3]; Knupfer, Martin[1]
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SSP3-165

Atomic and electronic structures of the group-IV elements on Si(111)-$\sqrt{3} \times \sqrt{3}$-R30° surface

Sibel, Özkaya[1]; Mehmet, Çakmak[1]; Bora, Alkan[2]
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SSP3-166

Direct observation of dynamic fluctuation on nanowire : Si(111)5×2-Au

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SSP3-166B

Influence of doping on defects at GaAs(110) surfaces

Williams, Helene[1]; Hofer, Werner[1]; Cavar, Elizaveta[2]; Mikkelsen, Anders[2]; Lundgren, Edvin[2]; Kresse, Georg[3]
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SSP3-166C

Single-domained Si(110)-"16x2" surface

Yamada, Yoichi[1]; Girard, Antoine[2]; Yamamoto, Hiroyuki[1]; Shamoto, Shin-ichi[1]
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[2]Institut Néel, CNRS, Grenoble, France

SS - Environmental and Biological Surface Science

SSP3-167

Impregnated ion exchange resin and extracting agent applied to the metallic adsorption in the aqueous - organic solvents mixture
Fezani, Ouahiba; Amara, Mourad; Kerdjoudj, Hacène
University, Algiers, Algeria

SSP3-168

Characterization of interactions between counterions and ssDNA immobilized on gold
Petrovykh, Dmitri Y.[1]; Opdahl, Aric[2]; Whitman, Lloyd J.[3]
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SSP3-169

Lotus-Effect®: Biomimetic superhydrophobic surfaces and their application
Striffler, Boris F.; Cerman, Zdenek; Immink, Henning; Barthlott, Wilhelm
Nees Institute for Biodiversity of Plants, Bonn, Germany

SS - Geometric Structure

SSP3-170

Structural and electronic properties of Bi-stabilized (2x1) reconstruction on the InP(100) surface
Laukkanen, Pekka[1]; Ahola-Tuomi, Marja[2]; Adell, Johan[3]; Adell, Martin[3]; Schulte, Karina[4]; Kuzmin, Mikhail[2]; Pakarinen, Janne[1]; Tukiainen, Antti[1]; Perälä, Riitta[2]; Väyrynen, Juhani[2]; Pessa, Markus[1]
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SSP3-171

Ultra-thin Films of Pd on Ni(111) and Ni on Pd(111) Studied by XPS, LEED, and XPD
Nascente, Pedro[1]; Carazzolle, Marcelo[2]; Maluf, Silvia[1]; de Siervo, Abner[2]; Landers, Richard[2]; Kleiman, George[2]
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SSP3-172

Iron(II) phthalocyanine films on highly oriented pyrolitic graphite: Geometry and intermolecular and substrate interactions
Isvoranu, Cristina[1]; Åhlund, John[2]; Ataman, Evren[1]; Puglia, Carla[2]; Andersen, Jesper N.[1]; Schnadt, Joachim[1]
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SSP3-173

Lepidocrocite titanium oxide ultra-thin film on Ni(110): first-principles modelling and simulated STM imaging
Teobaldi, Gilberto[1]; Hofer, Werner A.[1]; Papageorgiou, Anthoula C.[2]; Cabailh, Gregory[2]; Chen, Qiao[2]; Thornton, Geoff[2]
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SSP3-174

FEM metal tip surface: emission properties from a crystallographic point of view
Nikiforov, Konstantin; Egorov, Nikolay
Saint-Petersburg State University, Saint-Petersburg, Russian Federation

SSP3-175

Laser-induced surface structures
Leonid, Grechko[1]; Oleksandr, Semchuk[2]; Leonid, Lerman[3]; Magnus, Karlsteen[4]; Magnus, Willander[4]
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SSP3-176

Atomic structures of S and O on NiAl(110)-(2x4)
Meryem, Evecen[1]; Mehmet, Çakmak[2]
[1]Gazi University, Physics Department, Ankara, Turkey; [2]Gazi University, Ankara, Turkey

SSP3-177

New phase of S adsorbed on Au(111)
Yu, Miao[1]; Ascolani, Hugo[2]; Zampieri, Guillermo[2]; Woodruff, D.P.[1]; Satterley, C.J.[3]; Jones, Robert G.[3]
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SSP3-178

Atomic structure of $NiSi_2$(001) surface determined by high-resolution low and medium energy ion scattering
Nishimura, Tomoaki; Takeda, Jyunko; Kido, Yoshiaki
Ritsumeikan University, Department of Physics, Kusatsu, Shiga, Japan

SSP3-179

Scanning tunneling microscopy study of the Bi/InAs(100)-(2 x 10) surface
Ahola-Tuomi, Marja; Laukkanen, Pekka; Kuzmin, Mikhail; Perala, Riitta; Vayrynen, Juhani
University of Turku, Department of Physics, Turku, Finland

SSP3-180

Molecular arrangement of tetracene on Ag(111) surface studied by LT STM, LEED, and HREELS
Soubatch, Serguei[1]; Langner, Andreas[2]; Temirov, Ruslan[1]; Weinhold, Mirko[1]; Sokolowski, Moritz[2]; Tautz, Stefan[1]
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SSP3-181

A LEED and DFT study of the Pd(111)-p(2x2)-NO and Pd(111)-c(4x2)-NO surface structures
Kostelnik, Petr[1]; Cak, Miroslav[2]; Sikola, Tomas[1]; Sob, Mojmir[2]; Varga, Peter[3]; Schmid, Michael[3]
[1]Brno University of Technology, Institute of Physical Engineering, Brno, Czech Republic; [2]Academy of Sciences of Czech Republic, Institute of Physics of Materials, Brno, Czech Republic; [3]Technische Universität Wien, Institut für Allgemeine Physik, Wien, Austria

SSP3-182

The adsorption of carbon on As- and H-terminated Si(111)-1x1 surfaces
Mutombo, Pingo; Cháb, Vladimir
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SSP3-183

Atomic and electronic structures of Bi/InP(001)-α2(2×4)
Usanmaz, Demet[1]; Çakmak, Mehmet[1]; Ellialtioglu, Sinasi[2]
[1]Gazi University, Physics, Ankara, Turkey; [2]Middle East Technical University, Physics, Ankara, Turkey

SSP3-184

Shape & size changes of the emitting end facet of a Schottky electron source
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TF/SE Joint: Vacuum Metallurgy and Plasma Immersion

TFSEP3-185

Temperature induced recrystallization of copper coatings deposited on adhesion promoting molybdenum interlayers
Steiner, Harald; Eisenmenger-Sittner, Christoph; Schwarz, Bernhard
Vienna University of Technology, Solid State Physics, Vienna, Austria

TFSEP3-186

Abstract withdrawn

TFSEP3-187

Model of an electrically conductive surface layer on the basis of a multipurpose composite coating for the conditions of high-temperature operation
Sobko, Sergey (Russian Federation); Smirnov, Yury (Russian Federation); Sorokin, Alexander (Russian Federation); Kulikov, Vladimir (Russian Federation); Tkachenko, Anatoliy (Russian Federation)

TFSEP3-188
Applications of a high temperature sessile drop device
Schwarz, Bernhard[1]; Worbs, Peter[2]; Eisenmenger-Sittner, Christoph[1]
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TFSEP3-189

Friction and wear mechanism of multilayered vacuum coatings
Ragachou, Aliaksandr[1]; Popov, Aliaksandr[2]
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TF/SE: Fundamentals of Thin Film Growth (CVD)

TFSEP3-190

The promising gas-dynamic schemes of vacuum deposition from the supersonic gas mixture flows
Rebrov, Alexey; Maltsev, Roman
Institute of Thermophysics, Russian Academy, Rarefied Gas Dynamics, Novosibirsk, Russian Federation

TFSEP3-191

Effects of nitrogen addition on the structure and properties of a-C:H layers on the polycarbonate substrates
Nowak, Rafal; Jonas, Stanislawa
AGH University of Science and Technology, Faculty Materials Science and Ceramics, Cracow, Poland

TFSEP3-192

Large area step growth of CVD diamond films
Moro, Joao[1]; Nascente, Pedro[2]; Trava-Airoldi, Vladimir[3]; Corat, Evaldo[3]; Amorim, Amauri[4]
[1]Sao Francisco University, Itatiba, Brazil; [2]Federal University of Sao Carlos, Department of Materials Engineering, Sao Carlos, Brazil; [3]Brazilian Institute for Space Research, Sao Jose dos Campos, Brazil; [4]METROCAMP, Campinas, Brazil

TFSEP3-193

Preparation of ZnO thin film by newly designed horizontal-typed MOCVD chamber
Yoshizawa, Shuji[1]; Nishimura, Kimitaka[2]; Sakurai, Takashi[2]
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TFSEP3-194

Field emission properties of nanocrystalline diamond films grown on different metal layers
Huang, Bohr-Ran[1]; Huang, Chien-Seng[1]; Jou, Shyankay[2]; Mao, Jen-Yuan[3]; Chen, Wei-Ru[3]; Wang, Sheng-Bo[3]
[1]National Yunlin University of Science & Technology, Department of Electronic Engineering, Toliou, Yunlin, Taiwan; [2]National Taiwan University of Science & Technology, Graduate Institute of Materials Science & Technogy, Taipei, Taiwan; [3]National Yunlin University of Science & Technology, Institute of Optoelectronic Engineering, Toliou, Yunlin, Taiwan

TFSEP3-195

The properties of the nanodiamond films on the Ti/Si substrate by different pre-treatment techniques
Huang, Bohr-Ran[1]; Yeh, Chun-Shin[2]; Huang, Chien-Sheng[1]; Chung, Max[3]; Chen, Kun-Gi[1]
[1]National Yunlin University of Science & Technology, Department of Electronic Engineering, Touliu, Yunlin, Taiwan; [2]National Yunlin University of Science & Technology, Graduate School of Engineering Science &Technology, Touliu, Yunlin, Taiwan; [3]Southern Taiwan University of Technology, Department of Electronic Engineering, Taiwan, Taiwan

TFSEP3-196

Flexible multilayer silicon oxide barrier coating deposited by RF-PECVD
Patelli, Alessandro; Vezzù, Simone; Gianclaudio, Marino; Sulcis, Roberta; Falcaro, Paolo
CIVEN, Venezia, Italy

TFSEP3-197

Thin films deposition by PECVD method for low-k materials and characterization of their electrical and mechanical properties
Bae, In Seob; Cho, Sang Jin; Boo, Jin Hyo
Sungkyunkwan Univ., Dept. of Chemistry, Suwon, Republic of Korea

TFSEP3-198

Stduy of selective deposition of TaN thin films on OTS patterned Si(100) substrates
Kang, Byung-Chang[1]; Boo, Jin-Hyo[1]; Jung, Duk-Young[1]; Fischer, R. A.[2]
[1]Sungkyunkwan University, Chemistry, Suwon, Republic of Korea; [2]Ruhr-University, Chemistry, Bochum, Germany

TFSEP3-199

Plasma enhanced liquid source MOCVD system and its applications
Weiguo, Liu; Wei, Zhang; Shun, Zhou; Aihua, Gao; Xiongxing, Zhang; Na, Jin
Xi'an Technological University, Micro-Optoelectronic System Labs, Xi'an, China

TF/SE: Fundamentals in Thin Film Growth (Ionized-PVD)

TFSEP3-200

Analysis of GaN ultrathin hilms grown by ion-atom beam source
Mach, Jindrich; Kolibal, Miroslav; Èechal, Jan; Voborný, Stanislav; Šikola, Tomáš
Brno university of Technology, Brno, Czech Republic

TFSEP3-201

Interface engineering and surface pretreatment utilizing ionized PVD
Jädernäs, Daniel; Martina, Lattemann; Helmersson, Ulf
Linköping University, Department of Physics, Chemistry and Biology, Linköping, Sverige

TFSEP3-202

Anomalous electron transport in high power impulse magnetron sputtering plasmas
Lundin, Daniel[1]; Kirkpatrick, Scott[2]; Brenning, Nils[3]; Rohde, Suzanne[2]; Helmersson, Ulf[1]
[1]University of Linkoping, Plasma and Coatings Physics, Linkoping, Sweden; [2]University of Nebraska-Lincoln, Department of Mechanical Engineering, Lincoln, United States; [3]Royal Institute of Technology, Plasma and Space Physics, EE, Stockholm, Sweden

TFSEP3-203

Metal ionization in the high power impulse magnetron sputtering discharge (HIPIMS)
Gudmundsson, Jon T.
University of Iceland, Science Institute, Reykjavik, Iceland

TFSEP3-203B

Hot wall grown Copper phthalocyanine films for device applications
Mahajan, Aman[1]; Gupta, Himani[2]; Bedi, R K[2]
[1]DAV College, Physics, Amritsar, India; [2]Guru Nanak Dev University, Physics, Amritsar, India

TF/SE: Fundamentals in Thin Film Processing: Atomic Layer Deposition and Applications

TFSEP3-204

Study on atomic layer deposition of TiO_2 thin film growth using in-situ infrared spectroscopy
Kang, Byung-Chang; Boo, Jin-Hyo
Sungkyunkwan University, Chemistry, Suwon, Republic of Korea

TFSEP3-205

Characterization of ZnSe/CdSe/ZnSe quantum dots fabricated by atomic layer epitaxy
Ii, Masakazu[1]; Yoneta, Minoru[1]; Ichitani, Hiroki[1]; Ohishi, Masakazu[1]; Saito, Hiroshi[1]; Yoshino, Kenji[2]
[1]Okayama University of Science, Okayama, Japan; [2]University of Miyazaki, Miyazaki, Japan

TFSEP3-206

Thin conducting copper films by annealing of Cu3N in vacuum and hydrogen atmosphere
Fallberg, Anna[1]; Ottosson, Mikael[1]; Törndahl, Tobias[2]; Carlsson, Jan-Otto[1]
[1]Materials Chemistry, Uppsala, Sweden; [2]Solid State Electronics, Uppsala, Sweden

TFSEP3-207
SnO_2 thin films on various sapphire substrates prepared by sputtering and PE-ALD
Kim, Dai-Hong; Choi, Yun-Hyuk; Kim, Mi-Young; Hong, Seong-Hyeon
Seoul National University, Seoul, Republic of Korea

TF/SE: Fundamentals in Thin Film Processing: Reactive Sputtering

TFSEP3-208

Electron beam induced orientation selective epitaxial growth of CeO_2(100) layers on Si(100) substrates by dc reactive sputtering
Inoue, Tomoyasu[1]; Nakata, Yoshiyuki[1]; Shigenari, Shida[2]
[1]Iwaki Meisei University, Department of Electronics and Computer Science, Iwaki, Japan; [2]Iwaki Meisei University, High Resolution Analytical Electron Microscopy C., Iwaki, Japan

TFSEP3-209

Influence of process pressure and N_2 gas flow on optical and structural properties of reactively sputtered ZrN
Schleussner, Sebastian; Edoff, Marika; Törndahl, Tobias
Uppsala University, Ångström Solar Center, Uppsala, Sweden

TFSEP3-210

Effects of m additions on the hard magnetic properties and thermal stability of nanocrystalline [Nd-Fe-B/M]xn Films
Chiriac, Horia[1]; Grigoras, Marian[1]; Urse, Maria[1]; Zet, C[2]
[1]National Institute of Research & Development for T, MDM, Iasi, Romania; [2]Technical University Gh. Asachi of Iasi, Iasi, Romania

TFSEP3-211

Nitrogen doped effect of structure and optical properties of TiO_2 films deposited by reactive facing targets sputtering
Takahashi, Takakazu; Biswas, Subhayan; Nezuka, Takayuki; Hossain, M. Faruk
University of Toyama, Toyama, Japan

TFSEP3-212

Annealing effect of structure and optical properties of N-doped TiO_2 films reactively deposited by sputtering
Takahashi, Takakazu; Biswas, Subhayan; Nezuka, Takayuki; Hossain, M. Faruk
University of Toyama, Toyama, Japan

TFSEP3-213

Effect of the thermal annealing on the electrical properties of CuO:Ag thin films produced by RF magnetron sputtering
Yang, Tsung Chou[1]; Lu, Yang-Ming[2]; Hon, Min-Hsiung[1]
[1]Department of Materials Science and Engineering, National Cheng Kung University, Tainan, Taiwan; [2]Graduate Institute of Electro-Optical and Material, National Formosa University, Yunlin, Taiwan

TFSEP3-214

Effects of substrate temperature and N_2 flow on the microstructure and morphology of InN films produced by reactive pulsed magnetron sputtering
Lee, Chao-Te; Kei, Chi-Chung; Su, Chien-Ying; Chang, Chun-Ming
Instrument Technology Research Center, Hsinchu, Taiwan