



**POSTER
PROGRAMME**

Diamond 2009 Poster Programme

Poster No	Title, Authors & Affiliations
	Session 1 – Monday 7 th September – 17:30 – 19:00 – Aegean Ballroom
	P1.1 - Diamond Growth
[P1.1.01]	Cross-sectional study of diamond in a hydrogen-free heteroepitaxial growth using the graphite rod heating method , T. Hirai ¹ , Y. Takagi ^{*2} , T. Akistu ¹ , T. Suzuki ³ , ¹ University of Yamanashi, Japan, ² Teikyo University of science & Technology, Japan, ³ Jeol Ltd., Japan
[P1.1.02]	Deposition and characterization of diamond coatings on WC-Co cutting tools with dual metallic interlayers , Y. Tang, Y.S. Li, Q. Yang*, A. Hirose, <i>University of Saskatchewan, Canada</i>
[P1.1.03]	Diagnostic method for microwave plasma-assisted CVD diamond deposition reactor performance , F. Silva ^{*1} , X. Bonnin ¹ , J. Scharpf ² , A. Pasquarelli ² , ¹ L.I.M.H.P. – C.N.R.S., France, ² University of Ulm, Germany
[P1.1.04]	Diamond nanotubes , D. Varshney*, V. Makarov, J. Scott, B.R. Weiner, G. Morell, <i>University of Puerto Rico, USA</i>
[P1.1.05]	Diamond synthesis by plasma chemical vapour deposition in liquid and gas , H. Toyota ^{*1} , S. Nomura ¹ , S. Mukasa ¹ , Y. Takahashi ² , S. Okuda ³ , ¹ Ehime University, Japan, ² Shikoku Research Institute Inc., Japan, ³ Toyota Industries Corporation, Japan
[P1.1.06]	Growth of low-nitrogen diamonds in the system FE-Co-s-C , A.I. Chepurov, E.I. Zhimulev*, V.M. Sonin, A.A. Chepurov, <i>RAS, Russia</i>
[P1.1.07]	High-resolution transmission electron microscopy study of vertically-aligned single crystal ZnO nanowire-nanocrystalline diamond/Si nanocomposite , M. Singh*, E. Titus, J. Gracio, <i>University of Aveiro, Portugal</i>
[P1.1.08]	Homoepitaxial single crystal diamond growth at different gas pressures and MPACVD reactor configurations , A.B. Muchnikov ^{*1} , A.L. Vikharev ¹ , A.M. Gorbachev ¹ , D.B. Radishev ¹ , V.D. Blank ² , S.A. Terentiev ² , ¹ Institute of Applied Physics RAS, Russia, ² Technological Institute for Superhard and Novel Carbon Materials, Russia
[P1.1.09]	In situ formation and control of nanometric SiC layers to reach high nucleation density using BEN , S. Saada ¹ , M. Lions ^{*1,3} , J.C. Arnault ¹ , R. Licinio ² , P. Bergonzo ¹ , ¹ CEA, LIST, France, ² CEA, LIST, LCAE, France, ³ CEA, LETI, MINATEC, France
[P1.1.10]	Investigation of the formation dynamics of the SH and CS radicals inside the hot filament chemical vapour deposition system by cavity ringdown spectroscopy , M. Buzaiianu*, V. Makarov, P. Saxena, H. Yilmaz, B.R. Weiner, G. Morell, <i>University of Puerto Rico, Puerto Rico</i>
[P1.1.11]	Local Boron doping quantification in homoepitaxially CVD grown diamond structures , D. Araujo ^{*1} , E. Bustarret ^{2,1} , R. El Bouayadi ³ , M.P. Alegre ¹ , P. Villar ¹ , F. Jomard ¹ , ¹ Universidad de Cádiz, Spain, ² Institut Néel-CNRS, France, ³ Université Oujda, Morocco, ⁴ Université de Versaille St Quentin-CNRS, France
[P1.1.12]	Luminescence from electron-hole droplets in homoepitaxial CVD diamond , S. Almaviva ¹ , M.G. Donato ² , G. Faggio ³ , M. Marinelli ¹ , G. Messina ³ , G. Verona Rinati ^{*1} , ¹ University of Rome 'Vergata', Italy, ² Institute for Chemical and Physical Processes (CNR), Italy, ³ University of Reggio Calabria, Italy
[P1.1.13]	Microwave plasma-assisted etching of single crystal diamond , D.T. Tran ¹ , C. Fansler ¹ , T.A. Grotjohn ^{*1,2} , D.K. Reinhard ^{1,2} , J. Asmussen ^{1,2} , ¹ Michigan State University, USA, ² Fraunhofer USA Center for Coatings and Laser Applications, USA
[P1.1.14]	Nanocrystalline diamond growth on GaN and AlGaN alloys , W. Müller-Sebert*, A. Kriele, M. Wolfer, O.A. Williams, C.E. Nebel, <i>Fraunhofer-Institut für Angewandte Festkörperphysik, Germany</i>
[P1.1.15]	One-step CVD-diamond coating process on 3-D titanium substrates using reticulated carbon vitreo as a solid carbon source , N. de Almeida Braga ^{*1} , C.A.A. Cairo ² , N.G. Ferreira ¹ , V.J. Trava-Airoldi ¹ , M.R. Baldan ¹ , ¹ Instituto Nacional de Pesquisas Espaciais, Brazil, ² Comando-Geral de Tecnologia Aeroespacial, Brazil
[P1.1.16]	Optimization of HFCVD diamond deposition parameters using the taguchi matrix , E. Salgueiredo*, M. Amaral, A.J.S. Fernandes, F.J. Oliveira, R.F. Silva, <i>University of Aveiro, Portugal</i>
[P1.1.17]	Synthesis of ultrathin diamond films with extreme insulating properties , M. Lions ^{*1,3} , S. Saada ¹ , J.C. Arnault ¹ , M.A. Pinault ² , O. Faynot ³ , P. Bergonzo ¹ , ¹ CEA, LIST, France, ² GEMAC, CNRS UMR 8635, France, ³ CEA, LETI, MINATEC, France
[P1.1.18]	TEM study on the effect of H₂ incorporation in Ar plasma on characteristics of ultra-nanocrystalline diamond films , C.S. Wang ^{1,2} , H.C. Chen ¹ , I.N. Lin ^{*1} , ¹ Tamkang University, Taiwan, ² Technology and Science Institute of Northern Taiwan, Taiwan

[P1.1.19]	The influence of helium and argon on boron doped nanocrystalline diamonds , H.G. Zanin* ¹ , A.C. Peterlevitz ¹ , H.J. Ceragioli ¹ , J. Tsukada ¹ , V. Baranauskas ¹ , ¹ Universidade Estadual de Campinas, Brazil
[P1.1.20]	The role of surface activation prior to seeding on NCD adhesion , M. Amaral* ¹ , F. Almeida ¹ , A.J.S. Fernandes ¹ , F.M. Costa ¹ , F.J. Oliveira ¹ , R.F. Silva ¹ , ¹ University of Aveiro, Portugal
[P1.1.21]	Thermoluminescent response of thin (< 2 µm) polycrystalline diamond films grown by pulsed and continuous microwave plasmas , G. Cicala* ¹ , R. Brescia ¹ , M.A. Nitti ² , A. Romeo ³ , M. Ambrico ¹ , L. Schiavulli ² , ¹ IMIP-CNR Bari, Italy, ² INFN-Sezione di Bari, Italy, ³ University of Bari, Italy, ⁴ University of Foggia, Italy
[P1.1.22]	Understanding the growth of (ultra)nanocrystalline diamond:a molecular dynamics-monte carlo approach , M. Eckert*, E. Neyts, A. Bogaerts, University of Antwerp, Belgium
P1.2 - Hetero-epitaxial growth	
[P1.2.01]	Preparation and characterization of the heteroepitaxial multilayer stack ZnO/Dia/Ir/YSZ/Si(111) , M. Fischer*, S. Gsell, M. Schreck, B. Stritzker, Universität Augsburg, Germany
[P1.2.02]	Study of the influence of different pretreatments on the SiC structures formed during CVD diamond synthesis for the enhancement of the epitaxy of diamond on silicon substrate , C. Sarrieu* ¹ , N. Barth ¹ , P. Miska ¹ , S. Barrat ¹ , E. Bauer-Grosse ¹ , ¹ Institut Jean Lamour, France
P1.3 - Nanodiamond	
[P1.3.01]	Adamantane-like molecules: functionalization and crystalline configurations , J.C. Garcia, J.F. Justo, W.V.M. Machado, L.V.C. Assali*, ¹ Universidade de São Paulo, Brazil
[P1.3.02]	Dispersion and cytotoxicity of nanodiamond-polymer composites in water , S.H. Kim*, Y. Lee, D. Debnath, W.S. Lee, K.E. Geckeler, Gwangju Institute of Science & Technology, Korea
[P1.3.03]	Effect of KrF laser treatment on structure of nanocrystalline diamond films , B.R. Huang* ¹ , S. Jou ¹ , K.H. Chen ² , L.C. Chen ³ , Y.M. Wu ¹ , ¹ National Taiwan University of Science and Technology, Taiwan, ² Academia Sinica, Taiwan, ³ National Taiwan University, Taiwan
[P1.3.04]	Effect of surface treatment on oxidation of oxalic acid at nanocrystalline diamond films , A.F. Azevedo, F.A. Souza, J.T. Matsushima, M.R. Baldan, N.G. Ferreira, N. de Almeida Braga*, Instituto Nacional de Pesquisas Espaciais, Brazil
[P1.3.05]	Electrical properties of ultrananocrystalline diamond/amorphous carbon nanocomposite films , W. Kulisch ¹ , C. Popov* ² , E. Lefterova ³ , S. Bliznakov ^{2,4} , J.P. Reithmaier ² , F. Rossi ¹ , ¹ European Commission Joint Research Centre, Italy, ² University of Kassel, Germany, ³ Bulgarian Academy of Sciences, Bulgaria, ⁴ State University of New York at Binghamton, USA
[P1.3.06]	Enhanced nucleation and smoothness of diamond films deposited on Si with nano-scale metal interlayers , Y. Tang, Y. Li, Q. Yang*, A. Hirose, University of Saskatchewan, Canada
[P1.3.07]	Fabrication and characterization of nanocrystalline diamond films by hot filament CVD , J. Feng* ^{1,2} , J. Mei ¹ , J. Li ¹ , D. Hu ¹ , Z. Yu ² , ¹ China Academy of Engineering Physics, China, ² Center South University, China
[P1.3.08]	First-principles density-functional theory studies of the electronic and vibrational properties of <i>sila</i>-diamondoids , S.L. Richardson*, U.T. Novakovski, Howard University, USA
[P1.3.09]	Formation of ultrananocrystalline diamond by a coaxial arc plasma gun , I. Suzuki* ¹ , K. Hanada ¹ , T. Yoshitake ¹ , Y. Nakagawa ¹ , T. Yoshida ¹ , Y. Agawa ² , ¹ Kyushu University, Japan, ² ULVAC-RIKO, Japan
[P1.3.10]	Functionalization of nanodiamond particles for protein adsorption , H.D. Wang, Q. Yang*, C.H. Niu, University of Saskatchewan, Canada
[P1.3.11]	Growth and characterization of diamond micro and nano crystals obtained using different methane concentration in argon-rich gas mixture , E. Corat*, D. Barbosa, P. Barreto, V. Trava-Airoldi, Instituto Nacional de Pesquisas Espaciais, Brazil
[P1.3.12]	Hemoglobin adsorption on different size nanodiamonds , F.Y. Su* ¹ , Y.C. Lin ¹ , C.L. Hsu ¹ , E.V. Perevedentseva ^{1,2} , A.V. Priezhev ³ , A.V. Karmenyan ⁴ , ¹ National Dong Hwa University, Taiwan, ² Russian Academy of Sciences, Russia, ³ Moscow State University, Russia, ⁴ National Yang-Ming University, Russia
[P1.3.13]	Improved adhesion of nanostructured diamond films on CoCrMo alloy , S.A. Catledge* ¹ , R. Vaid ¹ , P. Diggins ¹ , J.J. Weimer ² , M. Koopman ¹ , Y.K. Vohra ¹ , ¹ University of Alabama at Birmingham, USA, ² University of Alabama at Huntsville, USA
[P1.3.14]	Improvements in CVD/CVI processes for optimizing nanocrystalline diamond growth into porous silicon , M.C. Renata Borges, N. de Almeida Braga*, B. Maurício Ribeiro, B. Antonio Fernando, F. Neidenei Gomes, Instituto Nacional de Pesquisas Espaciais, Brazil

[P1.3.15]	Nanocrystalline, CVD-Diamond film for biosensor applications , A. Quershi ¹ , Y. Gurbuz* ¹ , M. Howell ² , W.P. Kang ² , J.L. Davidson ² , ¹ <i>Sabanci University, Turkey</i> , ² <i>Vanderbilt University, USA</i>
[P1.3.16]	Nano-diamonds as the modifiers of thermoplastic polymers , T. Gubarevich* ¹ , Yu. Fedutik ² , A. Antipov ² , A. Kalachev ² , ¹ <i>National Academy of Science of Belarus, Belarus</i> , ² <i>PlasmaChem GmbH, Germany</i>
[P1.3.17]	Nanodiamonds modify activity of immune cells , A.V. Karpukhin* ¹ , N.V. Avkhacheva ² , N.V. Pen'kov ² , I.I. Kulakova ¹ , V.G. Safronova ² , G.V. Lisichkin ¹ , ¹ <i>Lomonosov Moscow State University, Russia</i> , ² <i>Russian Academy of Sciences, Russia</i>
[P1.3.18]	Near-edge x-ray absorption fine-structure and x-ray photoemission spectroscopies of nitrogen-doped ultrananocrystalline diamond/hydrogenated amorphous carbon films prepared by pulsed laser deposition , S. AL-Riyami* ¹ , S. Ohmagari ¹ , T. Yoshitake ¹ , R. Ohtani ² , H. Setoyama ² , E. Kobayashi ² , ¹ <i>Kyushu University, Japan</i> , ² <i>Kyushu Synchrotron Light Research Center, Japan</i>
[P1.3.19]	Novel method for ultra-smooth polishing of diamond thin films , R. Singh* ^{1,2} , A. Arjunan ² , D. Singh ² , ¹ <i>University of Florida, USA</i> , ² <i>Sinmat Inc, USA</i>
[P1.3.20]	Optical emission spectroscopy of deposition process of ultrananocrystalline diamond/amorphous carbon composite films by a coaxial arc plasma gun , K. Hanada* ¹ , T. Nishiyama ¹ , T. Yoshitake ¹ , K. Nagayama ¹ , <i>Kyushu University, Japan</i>
[P1.3.21]	Origin of low threshold field emission from nitrogen-incorporated nanodiamond films , K. Teii* ¹ , M. Nakashima ¹ , T. Ikeda ¹ , <i>Kyushu University, Japan</i>
[P1.3.22]	Reinforcement of an autopolymerizing resin (PMMA) used in dental provisional restorations with ultra dispersed diamonds (UDD's) , P. Protopapa* ¹ , E. Kontonasaki ¹ , S. Stavrev ² , K.M. Paraskevopoulos ¹ , D. Bikiaris ¹ , P. Koidis ¹ , ¹ <i>Aristotle University of Thessaloniki, Greece</i> , ² <i>Bulgarian Academy of Sciences, Bulgaria</i>
[P1.3.23]	Structural and microwave dielectric properties of thick ultranano-, nano-, and micro-crystalline diamond films grown on quartz substrates , H.F. Cheng ¹ , P.T. Joseph* ² , N.H. Tai ² , Y.C. Cheng ³ , I.N. Lin ⁴ , ¹ <i>National Taiwan Normal University, Taiwan</i> , ² <i>National Tsing Hua University, Taiwan</i> , ³ <i>National Cheng-Kung University, Taiwan</i> , ⁴ <i>Tamkang University, Taiwan</i>
[P1.3.24]	Surface properties between detonation nanodiamond particles in composites sintered at high pressure and high temperature , F.M. Shakhov* ¹ , S.V. Kidalov ¹ , A.Ya. Vul ¹ , A.N. Ozerin ² , T.S. Kurkin ² , A.N. Smirnov ¹ , ¹ <i>Ioffe Physico-Technical Institute, Russia</i> , ² <i>Institute of Synthetic Polymer Materials, Russia</i>
[P1.3.25]	Vibrational spectra of amino-adamantane isomers: a first-principles investigation , J.C. Garcia ¹ , J.F. Justo ¹ , L.V.C. Assali* ¹ , V.N. Freire ² , ¹ <i>Universidade de São Paulo, Brazil</i> , ² <i>Universidade Federal do Ceará, Brazil</i>
[P1.3.26]	X-ray photoemission spectroscopy of ultrananocrystalline diamond/hydrogenated amorphous carbon composite films prepared by pulsed laser deposition , S. Ohmagari* ^{1,2} , ¹ <i>Kyushu University, Japan</i> , ² <i>Kyushu Synchrotron Light Research Center, Japan</i>
P1.4 - Electrochemistry & biochemistry	
[P1.4.01]	Allylamine-mediated DNA attachment to nanocrystalline diamond and β-SiC surfaces , H. Zhuang ¹ , V.V.S.S. Srikanth ¹ , X. Jiang* ¹ , ¹ <i>University of Siegen, Germany</i>
[P1.4.02]	Arrangement and electronic effects of UV grafted organosilanes on diamond surfaces , H. Kozak ¹ , A. Kromka ¹ , Z. Remes* ¹ , J. Zemek ¹ , B. Rezek ¹ , <i>Academy of Sciences of the Czech Republic, Czech Republic</i>
[P1.4.03]	Device and functionalization of a new carbon based hybrid structure: carbon nanotubes grown on diamond , C. Agnes* ^{1,2} , S. Ruffinatto ^{1,2} , A.M. Bonnot ¹ , D. Eon ¹ , F. Omnes ¹ , P. Mailley ² , ¹ <i>CNRS-Institut Néel, France</i> , ² <i>CEA-INAC, France</i>
[P1.4.04]	Electrochemical detection of tyrosine derivatives and tyrosine kinase activity using diamond electrodes , M. Chiku* ¹ , Y. Einaga ¹ , <i>Keio University, Japan</i>
[P1.4.05]	Electrochemical properties of BDD hollow fiber membranes , T. Kondo* ¹ , S. Lee ¹ , T. Kawai ¹ , <i>Tokyo University of Sciences, Japan</i>
[P1.4.06]	Growth and differentiation of human osteoblasts on boron-doped nanocrystalline diamond , L. Grausova* ¹ , L. Bacakova ¹ , A. Kromka ¹ , M. Vanecek ¹ , V. Lisa ¹ , <i>Academy of Sciences of the Czech Republic, Czech Republic</i>
[P1.4.07]	Layer-by-layer assembly of undoped nanodiamond and its redox properties , W. Hongthani* ¹ , D. Fermín ¹ , <i>University of Bristol, UK</i>
[P1.4.08]	Localized electrodeposition of praseodymium oxide on high boron-doped region of diamond electrode: scanning electrochemical microscopy , M. Sawangphruk* ¹ , J.S. Foord ¹ , <i>University of Oxford, UK</i>

[P1.4.09]	Nanodiamond's interaction with human red blood cells , Y.C. Lin ^{*1} , F.Y. Su ¹ , C.L. Hsu ¹ , E.V. Perevedentseva ^{1,2} , A.V. Priezzhev ³ , A.V. Karmenyan ⁴ , ¹ National Dong Hwa University, Taiwan, ² Russian Academy of Sciences, Russia, ³ Moscow State University, Russia, ⁴ National Yang-Ming University, Taiwan
[P1.4.11]	Surface structure and electrochemical characteristics of single-crystal and nano-crystalline diamond treated by CF₄ plasma , A. Denisenko ^{*1} , A. Romanyuk ² , C. Pietzka ¹ , J. Scharpf ¹ , M. Dipalo ¹ , E. Kohn ¹ , ¹ University of Ulm, Germany, ² Univeristy of Basel, Switzerland
[P1.4.12]	The electrochemical analysis of unsaturated fatty acids and olive oil using highly boron-doped diamond electrodes , N. Mitani ^{*1} , T.A. Ivandini ² , Y. Einaga ¹ , ¹ Keio University, Japan, ² University of Indonesia, Indonesia
P1.5 - Surface properties and hydrogen	
[P1.5.01]	A self-consistent solution of the Schrödinger-Poisson equations for hydrogen terminated diamond , M.T. Edmonds ¹ , C.I. Pakes ^{*1} , L. Ley ² , ¹ La Trobe University, Australia, ² University of Erlangen, Germany
[P1.5.02]	Ab-initio modelling of oxydated and hydrogenated (110) diamond surfaces by means of an all-electron basis-set/hybrid Hamiltonian approach , M. De La Pierre [*] , R. Demichelis, A. Meyer, Ch. Manfredotti, E. Vittone, C. Manfredotti ¹ , Università di Torino, Italy
[P1.5.03]	Chemical modification of diamond surface with X-(C₆H₄)-COOH (X = F, Cl, Br, I) by using benzoyl peroxide , T. Tsubota [*] , Y. Kawamura, N. Murakami, T. Ohno, Kyushu Institute of Technology, Japan
[P1.5.04]	Comparative XPS analysis of different diamond oxidation techniques on 100, 111 and NCD surfaces , F. Klauser ^{*1} , S. Ghodbane ² , S. Szunerits ³ , R. Boukherroub ³ , N. Memmel ¹ , ¹ University of Innsbruck, Austria, ² r-BeSt coatings GmbH, Austria, ³ Institute de Recherche Interdisciplinaire (IRI) and Institut d'Electronique, de Microelectronique et de Nanotechnologie (IEMN), France
[P1.5.05]	Determination of the H content in carbon based materials by elastic peak electron spectroscopy , M. Filippi ¹ , L. Calliari ¹ , G. Speranza ¹ , S. Torrenco ^{*2} , C. Verona ³ , G. Verona-Rinati ³ , ¹ Fondazione Bruno Kessler, Italy, ² Università di Trento, Italy, ³ INFN, Università di Roma "Tor Vergata", Italy
[P1.5.06]	Direct atomic-scale observation of rotational disorder in few layer of ̳rapheme prepared by exfoliation of graphite in N,N-dimethylformamide solutions using probe-tip sonicator , M. Singh [*] , E. Titus, J. Gracio, University of Aveiro, Portugal
[P1.5.07]	Hydrogenated amorphous carbon films deposited on 316L stainless steel , A. Kluba, D. Bociaga [*] , M. Dudek, Technical University of Lodz, Poland
[P1.5.08]	Investigation of nitrogen addition on hydrogen incorporation in CVD diamond films , C.J. Tang ^{*1} , I. Abe ¹ , L.G. Vieira ² , J. Grácio ¹ , A.J. Neves ¹ , J.L. Pinto ¹ , ¹ University of Aveiro, Portugal, ² University of Minho, Portugal
[P1.5.09]	Spillover mechanism and hydrogen storage on metal doped ̳rapheme-zeolite composite , E. Titus [*] , M.K. Singh, J. Gracio, University of Aveiro, Portugal
[P1.5.10]	XPS study of in situ one step-amination of hydrogenated diamond surface , S. Torrenco ^{*1,2} , L. Minati ² , A. Miotello ¹ , M. Ferrari ³ , A. Chiasera ³ , A. Pasquarelli ⁴ , ¹ University of Trento, Italy, ² FBK-IRST, Italy, ³ CNR-IFN, CSMFO Group, Italy, ⁴ Department Electron Devices & Circuits, Germany
P1.6 - Diamond-like growth	
[P1.6.01]	Ar-II, Ar-I profile from an optical emission spectroscopy (OES) of a hollow cathode Ar plasma , T.I.T. Okpalugo, A.A. Ogwu, F. Placido, S. Lapp [*] , D. Lusk, M. Gore, University of West of Scotland, UK
[P1.6.02]	Dependence of intrinsic stress and structure of ta-C film on ion energy and substrate temperature in model of the non-local thermoelastic peak , A.I. Kalinichenko, S.S. Perepelkin, V.E. Strelnytskiy [*] , NSC Kharkov Institute of Physics and Technology, Ukraine
[P1.6.03]	Diamond needles obtained by selective oxidation of CVD films , A. Zolotukhin ^{*1} , P.G. Kopylov ² , A.N. Obratsov ^{1,2} , ¹ University of Joensuu, Finland, ² Moscow State University, Russia
[P1.6.04]	Diamond-like carbon deposited by plasma techniques without vacuum pumping , G.A. Viana, E.F. Motta, F.C. Marques [*] , Universidade Estadual de Campinas, Brazil
[P1.6.05]	DLC thin films growth in gaseous thermionic vacuum arc (G-TVA) technology , R. Vladioiu ^{*1} , V. Ciupina ¹ , M. Contulov ¹ , V. Bursikova ² , G. Musa ¹ , ¹ Ovidius University, Romania, ² Masaryk University, Czech Republic
[P1.6.06]	Electron energy distribution function (EEDF) in a hollow cathode Ar plasma , T.I.T. Okpalugo, A.A. Ogwu, F. Placido, S. Lapp [*] , D. Lusk, M. Gore, University of West of Scotland, UK

[P1.6.07]	High pressure synthesis of new heterodiamond phase , V.P. Filonenko* ¹ , V.A. Davydov ¹ , I.P. Zibrov ² , V.N. Agafonov ³ , V.N. Khabashesku ⁴ , ¹ <i>Institute for High Pressure Physics RAS, Russia</i> , ² <i>Institute of Crystallography RAS, Russia</i> , ³ <i>Université F. Rabelais, France</i> , ⁴ <i>University of Houston, USA</i>
[P1.6.08]	Improvements in tailored diamond-like carbon thin film control by pre-treatment of substrate materials , B.J. Jones* ¹ , J. Franks ¹ , R. Bulpett ¹ , A.W. Anson ^{1,2} , ¹ <i>Brunel University, UK</i> , ² <i>Diameter Ltd, UK</i>
[P1.6.09]	Spatial dependence of Raman frequencies in ordered and disordered monolayer grapheme , M Castriota ^{1,2} , E Cazzanelli* ^{1,2} , D Pacilè ¹ , L Papagno ¹ , G Mariotto ³ , ¹ <i>University of Calabria, Italy</i> , ² <i>CNR-INFM, Italy</i> , ³ <i>University of Verona, Italy</i>
[P1.6.10]	Ion energy distribution during plasma-enhanced chemical vapour deposition of diamond-like carbon films , C. Corbella*, M. Rubio-Roy, E. Bertran, E. Pascual, M.C. Polo, J.L. Andújar, <i>Universitat de Barcelona, Spain</i>
P1.7 - Graphene	
[P1.7.01]	Analogies and differences in the growth of graphene and boronitrene films from molecular systems , H. Sachdev, <i>Universität des Saarlandes, Germany</i>
[P1.7.02]	Effects of transverse electric fields on quasi-Landau levels in zigzag graphene nanoribbons , H.C. Chung* ¹ , M.H. Lee ¹ , C.L. Lu ¹ , Y.C. Huang ² , M.F. Lin ¹ , ¹ <i>National Cheng Kung University, Taiwan</i> , ² <i>Kao Yuan University, Taiwan</i>
[P1.7.03]	Fabrication of graphene nanoribbons , J.K. Lee* ¹ , S.H. Lee ¹ , Y.I. Kim ² , J.G. Kim ³ , ¹ <i>Korea Institute of Science & Technology, Korea</i> , ² <i>Korea Research Institute of Standards and Science, Korea</i> , ³ <i>Korea Basic Science Institute, Korea</i>
[P1.7.04]	Interaction between edge-localized spins and molecular oxygen in multishell nanographites derived from nanodiamonds , V.Yu. Osipov ¹ , A.I. Shames ² , T. Enoki ³ , K. Takai ³ , M. Endo ⁴ , A.Ya. Vul'*, ¹ <i>Ioffe Physico-Technical Institute, Russia</i> , ² <i>Ben-Gurion University of the Negev, Israel</i> , ³ <i>Tokyo Institute of Technology, Japan</i> , ⁴ <i>Shinshu University, Japan</i>
[P1.7.05]	Landau levels of multilayer graphene ribbons with Bernal stacking , Y.C. Huang* ¹ , C.L. Lu ¹ , C.P. Chang ² , T.S. Li ³ , ¹ <i>Kao Yuan University, Taiwan</i> , ² <i>Tainan University of Technology, Taiwan</i> , ³ <i>Kun Shan University, Taiwan</i>
[P1.7.06]	Semi-empirical tight-binding cluster calculations of single graphene-BN interfaces , S.J. Vlaev* ¹ , I.R. Vargas ¹ , R. de Coss ² , E.M. Guerra ² , ¹ <i>Universidad Autónoma de Zacatecas, Mexico</i> , ² <i>CINVESTAV-Unidad Mérida, Mexico</i>
[P1.7.07]	Semimetal-insulator phase transition in grapheme , W. Armour ¹ , S.J. Hands ² , C.G. Strouthos* ³ , ¹ <i>Diamond Light Source, UK</i> , ² <i>Swansea University, UK</i> , ³ <i>University of Cyprus, Cyprus</i>
[P1.7.08]	Strained graphene nanowall arrays as electrocatalyst support for methanol oxidation , M.S. Hu* ¹ , C.C. Kuo ¹ , K.H. Chen ¹ , L.C. Chen ² , ¹ <i>Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan</i> , ² <i>National Taiwan University, Taiwan</i>
[P1.7.09]	Incorporation of low metallic contents on fullerene-like carbon films grown by electron cyclotron resonance CVD , A. Pardo Pérez* ¹ , C. Gómez-Aleixandre ¹ , A. Lousa ² , ¹ <i>Instituto de Ciencia de Materiales de Madrid, Spain</i> , ² <i>Universidad de Barcelona, Spain</i>
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[P1.8.02]	A molecular level model for the nucleation of a single-wall carbon nanotube cap over a transition metal catalytic particle , N. Fotopoulos, J.P. Xanthakis*, <i>National Technical University of Athens, Greece</i>
[P1.8.03]	Carbon nanotube synthesis from non-standard catalysts in metallic and non-metallic states , B.C. Bayer* ¹ , C. Castellarin-Cudia ² , A. Goldoni ² , C. Cepek ³ , S. Hofmann ¹ , J. Robertson ¹ , ¹ <i>University of Cambridge, UK</i> , ² <i>Sincrotrone Trieste S.c.p.A., Italy</i> , ³ <i>Laboratorio Nazionale TASC-CNR-INFM, Italy</i>
[P1.8.04]	Carbon nanowire formation in electron-energy controlled plasma produced by CH₄/Ar RF discharges with small coaxial electrodes , N. Suzuki, S. Iizuka*, <i>Tohoku University, Japan</i>
[P1.8.05]	CVD growth and field electron emission of aligned carbon nanotubes on oxidized inconel plates without addition of catalyst , W. Yi, Q. Yang*, <i>University of Saskatchewan, Canada</i>
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[P1.8.07]	Direct writing electron beam nanolithography for water assisted spatially controlled vertically aligned carbon nanotube growth , S.P. Patole, J.B. Yoo*, <i>Sungkyunkwan University, Korea</i>

[P1.8.08]	Evaluation of diameter of vertically aligned multi-walled carbon nanotubes , F. Mitsugi* ¹ , M. Nozoe ² , Y. Iwasaki ² , T. Ikegami ¹ , T. Nakamiya ² , ¹ Kumamoto University, Japan, ² Tokai University, Japan
[P1.8.09]	Growth of carbon nanotubes arrays using nanosphere lithography and their application in field emission devices , A. Mathur*, S. Sinha Roy, J. McLaughlin, <i>University of Ulster, UK</i>
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[P1.8.11]	Hybrid vertical flow reactor for continuous CNTs synthesis , Z. Kolacinski* ¹ , L. Szymanski ² , G. Raniszewski ¹ , M. Druri ¹ , ¹ Technical University of Lodz, Poland, ² Academy of Humanities and Economics in Lodz, Poland
[P1.8.12]	Laser irradiation effect on the structure of multi-walled carbon nanotubes , T. Nakamiya* ¹ , N.H. Abhari ² , T. Ueda ² , K. Senba ² , M. Nozoe ¹ , F. Mitsugi ² , ¹ Tokai University, Japan, ² Kumamoto University, Japan
[P1.8.13]	Measuring mechanical properties of SWNT by AFM , C. Morant* ¹ , T. Campo ¹ , F. Marquez ^{1,2} , J.M. Sanz ¹ , E. Elizalde ¹ , ¹ Universidad Autónoma Madrid, Spain, ² Turabo University, Puerto Rico
[P1.8.14]	Rapid functionalization of multi-walled carbon nanotubes by pulsed DC plasma , A. Lobo ^{1,2} , E. Antunes ^{1,2} , S. Ramos ² , E. Corat* ^{1,2} , V. Trava-Airoldi ^{1,2} , M. Costa ³ , ¹ Instituto Tecnológico de Aeronáutica, Brazil, ² Instituto Nacional de Pesquisas Espaciais, Brazil, ³ Pointífica Universidade Católica, Brazil
[P1.8.15]	Sol-gel preparation of catalyst dots for selective growth of carbon nanotubes , R. Haubner* ¹ , B. Dittert ² , R. Schöftner ² , ¹ University of Technology Vienna, Austria, ² Profactor GmbH, Austria
[P1.8.16]	Synthesis of carbon nanotubes on the atomic force microscope tip by liquid co catalyst , C. Chiu, M. Yoshimura*, K. Ueda, <i>Toyota Technological Institute, Japan</i>
[P1.8.17]	Synthesis of SWNTs by arc plasma reactor with twelve-phase alternating discharge system and Raman Spectroscopic study , B. Chen* ¹ , T. Matsuura ² , S. inoue ¹ , Y. Ando ¹ , ¹ Meijo University, Japan, ² Industrial Technology Center of Fukui Prefecture, Japan
[P1.8.18]	Wettability control on vertically-aligned multi-wall carbon nanotubes surfaces with oxygen pulsed DC plasma and CO₂ laser treatments , S. Ramos ¹ , G. Vasconcelos ² , E. Antunes ^{1,3} , A. Lobo ^{1,3} , E. Corat* ^{1,3} , V. Trava-Airoldi ^{1,3} , ¹ Instituto Nacional de Pesquisas Espaciais, Brazil, ² Instituto de Estudos Avançados, Centro Técnico Aeroespacial, Brazil, ³ Instituto Nacional de Pesquisas Espaciais, Brazil
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[P1.9.01]	Basic parameters and models in simulation of CVD diamond devices , H. Ding* ^{1,2} , K. Isoird ^{1,2} , H. Schneider ^{1,2} , S. Kone ² , G. Civrac ^{1,2} , ¹ CNRS, LAAS, France, ² Université de Toulouse, France
[P1.9.02]	Characteristics of a graphene based solution gate field effect transistor , W. Zhang*, F. Speck, Th. Seyller, J. Ristein, <i>University of Erlangen, Germany</i>
[P1.9.03]	Dry etching properties of methyl-BCN film with C₄F₈ gas for Cu/LowK interconnection , H. Aoki, M. Hara, T. Masuzumi, D. Watanabe, C. Kimura, T. Sugino*, <i>Osaka University, Japan</i>
[P1.9.04]	Electrical nanodiamond sensors for chemical detection , M. Bevilacqua*, A. Chaudhary, R. Edgington, R. Jackman, <i>University College London, UK</i>
[P1.9.05]	High quality boron doped diamond layers for power electronic devices , P.N. Volpe* ^{1,2} , P. Muret ¹ , T. Teraji ² , J. Pernot ¹ , F. Omnes ¹ , F. Jomard ¹ , ¹ Université Joseph Fourier, France, ² National Institute for Materials Science, Japan, ³ GeMac-CNRS, France
[P1.9.06]	IV characterization at variable temperature of buried graphitic channels in diamond fabricated with MeV ion implantation , F. Piccolo* ¹ , S. Borini ³ , G. Amato ³ , M. Jakšić ² , Ž. Pastuović ² , E. Vittone ¹ , ¹ University of Torino, Italy, ² Ruder Bošković Institute, Croatia, ³ Istituto Nazionale di Ricerca Metrologica, Italy
[P1.9.07]	Low-leakage, high-conductance schottky diodes based on synthetic single crystal diamonds , V. Blank, V. Bormashov*, S. Buga, S. Terentiev, N. Kornilov, Y. Alshevskiy, <i>Technological Institute for Superhard and Novel Carbon Materials, Russia</i>
[P1.9.08]	On the secondary electron emission from CVD diamond with respect to energy conversion , D.M. Trucchi*, P. Ascarelli, E. Cappelli, V. Valentini, <i>CNR-ISC Montelibretti Section, Italy</i>
[P1.9.09]	Rocking curve imaging for diamond radiator crystal selection , G. Yang ¹ , R. Jones* ² , F. Klein ³ , K. Finkelstein ⁴ , K. Livingston ¹ , ¹ University of Glasgow, UK, ² University of Connecticut, USA, ³ Catholic University of America, USA, ⁴ Cornell University, USA
[P1.9.10]	High performances CVD diamond Schottky barrier diode , H.S. Schneider* ¹ , S.K. Kone ¹ , G.C. Civrac ¹ , K.I. Isoird ¹ , J.A. Achard ¹ , ¹ CNRS, France

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[P1.10.01]	Electronic and optical properties of one-dimensional C₆₀ polymer with positive and negative Gaussian curvatures : a new quantum system , J. Onoe* ¹ , T. Ito ² , H. Shima ³ , Y. Toda ³ , H. Yoshioka ⁴ , S. Kimura ² , ¹ <i>Tokyo Institute of Technology, Japan</i> , ² <i>Institute for Molecular Science, Japan</i> , ³ <i>Hokkaido University, Japan</i> , ⁴ <i>Nara Women's University, Japan</i>
[P1.10.02]	Structure and mechanical properties of C₆₀ nanowhiskers , T. Yamamoto* ¹ , K. Miyazawa ² , K. Kojima ¹ , M. Tachibana ¹ , ¹ <i>Yokohama City University, Japan</i> , ² <i>National Institute for Materials Science, Japan</i>
[P1.10.03]	Van der waals epitaxy of solid c₆₀ layer on newly discovered epitaxial SiON surface without dangling bonds , H. Terasaki ¹ , A. Hashimoto* ¹ , S. Tanaka ² , ¹ <i>University of Fukui, Japan</i> , ² <i>Kyusyu University, Japan</i>

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[P2.1.02]	Boron location in synthetic p-doped HPHT and CVD diamond , C. Fernandez-Lorenzo* ¹ , J. Martin ¹ , R. Alcantara ¹ , J. Navas ¹ , D. Araujo ¹ , P. Villar ¹ , ¹ <i>Universidad de Cádiz, Spain</i> , ² <i>Institut Néel, CNRS-Université Joseph Foueier, France</i>
[P2.1.03]	Electrical properties of boron doped p-type ultrananocrystalline diamond/hydrogenated amorphous carbon composite films , S. Ohmagari* ^{1,2,3} , ¹ <i>Kyushu University, Japan</i> , ² <i>Kyushu Synchrotron Light Research Center, Japan</i> , ³ <i>Ariake National College of Technology, Japan</i>
[P2.1.04]	Possibility of quantum computing on acceptor impurities of boron in diamond at low temperatures , A.S. Baturin, V.N. Gorelkin, V.A. Astapenko, I.V. Chernousov*, <i>Moscow State University, Russia</i>
[P2.1.05]	Raman mapping of strain in phosphorous doped polycrystalline CVD diamond layers , N. Habka* ^{1,2} , J. Barjon ¹ , A. Lazea ^{3,4} , K. Haenen ^{3,4} , P. Bergonzo ² , ¹ <i>Université Versailles St Quentin, France</i> , ² <i>CEA, LIST, France</i> , ³ <i>Hasselt University, Belgium</i> , ⁴ <i>IMEC vzw, Division IMOMECE, Belgium</i>
[P2.1.06]	Study of boron doped epitaxial diamond growth on (110) substrates , V. Mortet ^{1,2} , A. Soltani ³ , J. D'Haen ^{1,2} , P. Wagner ^{1,2} , K. Haenen* ^{1,2} , ¹ <i>Hasselt University, Belgium</i> , ² <i>Division IMOMECE, IMEC vzw, Belgium</i> , ³ <i>Institut d'Electronique de Microélectronique et de Nanotechnologie, France</i>
[P2.1.07]	The influence of methane on the boron incorporation in B-doped nanocrystalline diamond films , S.D. Janssens* ¹ , P. Pobedinskas ¹ , V. Mortet ^{1,2} , K. Haenen ^{1,2} , P. Wagner ^{1,2} , ¹ <i>Hasselt University, Belgium</i> , ² <i>Division IMOMECE, IMEC vzw, Belgium</i>
[P2.1.08]	The influence of defects/impurities on the performance of CVD diamond as radiation sensing element for low level mammography x-rays , R.D. Mavunda* ^{1,2} , Y.I. Zakari ³ , T.L. Nam ² , R.J. Keddy ² , A. Strydom ² , ¹ <i>University of the Witwatersrand, South Africa</i> , ² <i>University of Johannesburg, South Africa</i> , ³ <i>Ahmadu Bello University, Nigeria</i>
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[P2.2.01]	Accelerated flow induced by nano-micro diamond particles suspension under alternating electric field , H. Obara*, Y. Kawai, S. Tashiro, <i>Tokyo Metropolitan University, Japan</i>
[P2.2.02]	Adhesion and erosive wear resistance of ncd coatings produced by pulsed microwave discharges , F.A. Almeida* ¹ , N. Derkaoui ² , F.J. Oliveira ¹ , F. Bénédic ² , R.F. Silva ¹ , A. Gicquel ² , ¹ <i>University of Aveiro, Portugal</i> , ² <i>Université Paris, France</i>
[P2.2.03]	Analyses of heat sinks with CVD diamond film , T.M. Souza* ¹ , O.C. Junior ² , ¹ <i>UNESP, Brazil</i> , ² <i>PUC PR, Brazil</i>
[P2.2.04]	CVD diamond film on niobium , T.M. de Souza* ¹ , O. Cancigliéri Júnior ² , L.C. Faria ^{3,1} , ¹ <i>UNESP, Brazil</i> , ² <i>PUC PR, Brazil</i> , ³ <i>EMBRAER, Brazil</i>
[P2.2.05]	Diamond films for cutting tool materials: Adhesion improvement and dry machining performance , H. Gomez* ^{1,3} , A. Kumar ¹ , K. Chou ² , D. Durham ¹ , ¹ <i>University of South Florida, USA</i> , ² <i>University of Alabama, USA</i> , ³ <i>Universidad del Norte, Colombia</i>
[P2.2.06]	Fabrication and applications of multi-layer composite diamond films on silicon nitride substrates , F.H. Sun*, B. Shen, Z.M. Zhang, <i>Shanghai Jiao Tong University, China</i>
[P2.2.07]	Grinding with CBN: Wear mechanisms and tribological aspects , F. Klocke, S. Buchholz*, A. Roderburg, H. Wegner, <i>Aachen University, Germany</i>

[P2.2.08]	Highly ordered carbon thin films with potential application in microelectronics and gas sensing , D.W.M. Lau*, A. Moafi, J.G. Partridge, M.B. Taylor, D.G. McCulloch, D.R. McKenzie, <i>RMIT University, Australia</i>
[P2.2.09]	In-elastic x-ray scattering studies on B₄C under high static pressures , R. Kumar ^{*1} , D. Dandekar ² , A.L. Jasper ³ , T. Tanaka ⁴ , M. Nicol ¹ , A. Cornelius ¹ , ¹ University of Nevada Las Vegas, USA, ² Army Research Laboratory, USA, ³ Max-Planck-Institut, Germany, ⁴ National Institute for Materials Science, Japan, ⁵ HPCAT and Carnegie Institution, USA
[P2.2.10]	Molecular dynamics investigation on the atomic-scale indentation and friction behaviors between diamond tips and copper substrate , B Shen*, F.H. Sun, <i>Shanghai Jiao Tong University, China</i>
[P2.2.11]	Nanofabrication methods for the realisation of single crystal diamond cantilevers , R. Ahmad*, B. Kupfer, R.B. Jackman, <i>University College London, UK</i>
[P2.2.12]	Thermal diffusivity of heteroepitaxial diamond films: Experimental setup and measurements , C. Stehl, M. Schreck*, M. Fischer, S. Gsell, B. Stritzker, <i>Universität Augsburg, Germany</i>
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[P2.3.02]	Coulomb screenings in carbon nanotubes , C.W. Chiu*, S.H. Lee, S.C. Chen, C.H. Lee, M.F. Lin, <i>National Cheng Kung University, Taiwan</i>
[P2.3.03]	Electronic properties of monolayer graphene in the presence of the uniform magnetic and modulated electric fields , Y.C. Ou*, Y.H. Chiu, M.F. Lin, <i>National Cheng Kung University, Taiwan</i>
[P2.3.04]	Influence of surface layer conditions in multiwall carbon nanotubes to electrophysical properties , A.I. Romanenko* ^{1,3} , O.B. Anikeeva ^{1,3} , T.I. Buryakov ^{1,3} , E.N. Tkachev ^{1,3} , K.R. Zhdanov ^{1,3} , V.L. Kuznetsov ^{2,3} , ¹ Nikolaev Institute of Inorganic Chemistry, Russia, ² Boreskov Institute of Catalysis, Russia, ³ Novosibirsk State University, Russia
[P2.3.05]	Isotopic substitutions of boron and carbon atoms in superconducting B-doped diamond , P. Achatz ^{1,2} , F. Omnès ¹ , U. Koester ³ , F. Jomard ⁴ , E. Bustarret* ¹ , ¹ Institut Néel CNRS, France, ² CEA Grenoble INAC, France, ³ Inst. Laue Langevin, France, ⁴ GEMaC CNRS UVSQ, France
[P2.3.06]	Magnetic and electric properties of C-Co thin films prepared by vacuum arc technique , A. Tembre*, M. Clin, R. Bouzerar, J.I. Dellis, J.C. Picot, <i>Université de Picardie Jules Vernes, France</i>
[P2.3.07]	The effect of boron-doping process on superconductivity in diamond studied by first-principles , C. Gu*, C. Lu, Z. Wang, L. Xu, H. Yang, J. Li, <i>Institute of Physics, CAS, China</i>
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[P2.4.01]	Effect of electron-phonon interaction on field emission from diamond-like films , K.V. Reich* ¹ , E.D. Eidelman ^{1,2} , ¹ Russian Academy of Sciences, Russia, ² St. Petersburg State Chemical-Pharmaceutical Academy, Russia
[P2.4.02]	Effect of film-to-Si interface on electron field emission behavior of ultra-nanocrystalline diamond films: The TEM study , H.C. Chen ¹ , I.N. Lin ¹ , V. Buck ² , H.F. Cheng* ³ , ¹ Tamkang University, Taiwan, ² Duisburg-Essen University, Germany, ³ National Taiwan Normal University, Taiwan
[P2.4.03]	Enhanced field emission properties on high dose N-ion-implanted UNCD pyramid tip emitters , P.T. Joseph* ¹ , N.H. Tai ¹ , H. Niu ¹ , I.N. Lin ² , H.F. Cheng ³ , ¹ National Tsing-Hua University, Taiwan, ² Tamkang University, Taiwan, ³ National Taiwan Normal University, Taiwan
[P2.4.04]	Fabrication of insulating or conducting UNCD films on LiNbO₃ substrate and their applications , P.T. Joseph* ^{1,2} , N.H. Tai ¹ , I.N. Lin ² , ¹ National Tsing-Hua University, Taiwan, ² Tamkang University, Taiwan
[P2.4.05]	Field emission characteristics of diamond nano-tip array by porous alumina template , H.Y. Tsai* ¹ , H.C. Liu ² , J.H. Chen ² , C.C. Yeh ¹ , ¹ National Tsing Hua University, Taiwan, ² National Taiwan Ocean University, Taiwan
[P2.4.06]	Field emission from open carbon nanotubes: a case of non-Fowler-Nordheim behaviour , J.P. Xanthakis*, P.A. Zestanakis, <i>National Technical University of Athens, Greece</i>
[P2.4.07]	Field emission properties of easy soluble graphite: Synthesis and emission parameters , J.H. Lee ¹ , J.H. Park ² , P.S. Alegaonkar ² , J.B. Yoo* ^{2,1} , ¹ SKKU Advanced Institute of Nanotechnology (SAINT), Korea, ² Sungkyunkwan University, Korea
[P2.4.08]	High current electron field emission cathodes based on nanocrystalline graphite , V.A. Krivchenko* ¹ , A.A. Pilevsky ¹ , A.T. Rakhimov ¹ , B.V. Seleznev ¹ , N.V. Suetin ¹ , M.A. Timofeev ¹ , ¹ Moscow State University, Russia, ² Moscow State Institute of Radio Engineering, Electronics and Automation, Russia
[P2.4.09]	Improved tunneling controlled field emission of boron carbon nitride nanofilm , T. Sugino*, C. Kimura, J. Kikuchi, S. Kawai, H. Aoki, <i>Osaka University, Japan</i>

[P2.4.10]	Synthesis and field emission properties of metal-coated carbon nanotubes , H.S. Uh* ¹ , S. Park ¹ , B.W. Kim ¹ , K.S. Lee ¹ , N. Lee ¹ , E.S.C. Lee ² , ¹ Sejong University, Korea, ² Kyungwon University, Korea
[P2.4.11]	The effect of cathode tip density on threshold voltage of nanodiamond lateral vacuum devices , X.C. LeQuan, B.K. Choi, W.P. Kang*, J.L. Davidson, Vanderbilt University, USA
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[P2.5.02]	Effect of grain size on intensity of 'two-phonon' absorption in CVD diamond and statistical properties of multiple confined acoustic phonons , V. Ligatchev, Institute of High Performance Computing, Singapore
[P2.5.03]	Effect of ion damage on the refractive index of diamond , S. Lagomarsino* ¹ , P. Olivero ² , S. Calusi ^{2,3} , L. Giuntini ³ , A. Lo Giudice ^{2,3} , M. Massi ³ , ¹ University of Florence, Italy, ² University of Torino, Italy, ³ University of Florence, Italy, ⁴ Istituto Nazionale di Ottica Applicata (INOA), Italy
[P2.5.04]	Fancy colours in naturally and artificially irradiated type Ia diamond , B. Willems*, A. Anthonis, N. Crepin, J. Van Royen, HRD Antwerp NV, Belgium
[P2.5.05]	IR absorption spectra of some surface contaminants in diamonds , V.G. Vins* ¹ , A.P. Yeliseyev ² , O.A. Kozmenko ² , S.I. Lobanov ² , ¹ Institute of Single Crystals, Russia, ² Institute of Geology and Mineralogy, Russia
[P2.5.06]	Low-frequency magneto-optical excitations of graphene ribbons in spatially modulated magnetic fields , J.Y. Wu*, L.H. Chen, M.F. Lin, National Cheng Kung University, Taiwan
[P2.5.07]	Magneto-electronic and optical properties of monolayer and ab-stacked bilayer graphemes , Y.H. Ho* ^{1,2} , J.M. Lu ³ , W.S. Su ^{2,4} , M.F. Lin ² , ¹ National Sun Yat-Sen University, Taiwan, ² National Cheng Kung University, Taiwan, ³ National Center for High-Performance Computing, Taiwan, ⁴ Tainan University of Technology, Taiwan
[P2.5.08]	Magneto-optical absorption spectra of monolayer graphene in a spatially modulated magnetic field , Y.H. Chiu ¹ , Y.C. Ou ¹ , Y.Y. Liao* ² , M.F. Lin ¹ , ¹ National Cheng Kung University, Taiwan, ² National University of Kaohsiung, Taiwan
[P2.5.09]	Morphology and effect of nitrogen doping on sub-gap optical absorption of polycrystalline diamond , V. Ligatchev, Institute of High Performance Computing, Singapore
[P2.5.10]	Optical properties of microstructured diamond , B.R. Patton ¹ , P.R. Dolan ¹ , F. Grazioso ¹ , J.M. Smith* ¹ , B. Fairchild ¹ , P. Olivero ¹ , ¹ University of Oxford, UK, ² University of Melbourne, Australia
[P2.5.11]	Process and identification of stable color, enhanced colorless and colored diamonds by suncrest diamonds, USA , D. Simic* ¹ , S. Pope ² , B. Deljanin ³ , ¹ D&S Consulting Inc, USA, ² Suncrest Diamonds, USA, ³ Gemological Research Inc, Canada
[P2.5.12]	Raman and photoluminescent study of nanodiamond's penetration into normal and cancer cells , E.V. Perevedentseva ^{1,3} , S.J. Cai ¹ , I.T. Chiang ¹ , K.K. Liu ² , J.I. Chao ² , C.L. Cheng* ¹ , ¹ National Dong Hwa University, Taiwan, ² National Chiao Tung University, Taiwan, ³ Russian Academy of Sciences, Russia
[P2.5.13]	Sand erosion of freestanding diamond films prepared by DC arcjet , F. LU*, Q. He, S. Guo, F. Zhang, Y. Tong, University of Science and Technology Beijing, China
[P2.5.14]	Stimulated Raman scattering and third harmonic generation in nitrogen-doped type Ib HPHT diamond , H. Rhee* ¹ , H. Vollstädt ² , H.J. Eichler ¹ , A.A. Kaminskii ³ , ¹ Technische Universität Berlin, Germany, ² Vollstädt Diamant GmbH, Germany, ³ Russian Academy of Sciences, Russia
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[P2.6.02]	Photocurrent gain dependence on deep-ultraviolet intensity in diamond detector , M.Y. Liao, X. Wang, T. Teraji, S. Koizumi, K. Yasuo*, National Institute for Materials Science, Japan
[P2.6.03]	Synthetic single crystal diamond dosimeters for intensity modulated radiation therapy application , S. Almaviva ¹ , I. Ciancaglion ¹ , R. Consorti ² , C. Manfredotti ³ , M. Marinelli* ¹ , G. Verona Rinati ¹ , ¹ Università di Roma, Italy, ² U.O. Fisica Sanitaria, Italy, ³ University of Torino, Italy, ⁴ Università Roma 3, Italy
[P2.6.04]	Ultraviolet photodetectors based on hydrogenated diamond surfaces , J. Alvarez* ¹ , J.P. Kleider ¹ , M.Y. Liao ² , Y. Koide ² , M. Imura ³ , ¹ University Paris-Sud, France, ² National Institute for Materials Science (NIMS), Japan, ³ International Center for Materials Nanoarchitectonics, Japan

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[P2.7.01]	Adsorption of carbon nanotubes on transition metal surfaces - a DFT-based study , M. Y. David*, H. Nakanishi, H. Kasai, <i>Osaka University, Japan</i>
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[P2.7.08]	Effects of high-temperature thermal annealing on multi-walled carbon nanotubes: Electronic structure, electron field emission and magnetic behaviours , S.C. Ray ^{1,2} , C.W. Pao ¹ , H.M. Tsai ¹ , W.F. Pong* ¹ , H.C. Chen ¹ , Y.S. Chen ¹ , ¹ Tamkang University, Taiwan, ² Indian Association for the Cultivation of Science, India
[P2.7.09]	Enhanced electro-optical memory of "liquid crystal-carbon nanotubes" composites doped by minute amount of chiral agent , S. Tomytko ² , T. Semikina* ³ , L. Dolgov ¹ , O. Yaroshchuk ¹ , ¹ Institute of Physics NASU, Ukraine, ² Taras Shevchenko National University, Ukraine, ³ Institute of Semiconductors Physics, NASU, Ukraine
[P2.7.10]	Enhanced supercapacitor behavior of CNT with MnO₂ coating , S. Wei ¹ , W.P. Kang* ¹ , J.L. Davidson ¹ , B.R. Rogers ¹ , J.H. Huang ² , ¹ Vanderbilt University, USA, ² National Tsing Hua University, Taiwan
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[P2.7.14]	High coercivity magnetic multi-wall carbon nanotubes for low dimensional high-density magnetic recording media , S.C. Ray ^{1,2} , S. Bhattacharyya ³ , S.L. Wu ¹ , D.C. Ling ¹ , W.F. Pong* ¹ , A. Tagliaferro ⁴ , ¹ Tamkang University, Taiwan, ² Indian Association for the Cultivation of Science, India, ³ University of the Witwatersrand, South Africa, ⁴ Politecnico di Torino, Italy
[P2.7.15]	Human osteoblast-like MG 63 cells on carbon nanotube-polymer composites , L. Bacakova* ¹ , L. Grausova ¹ , E. Filova ¹ , A. Fraczek ² , M. Blazewicz ² , S. Blazewicz ² , ¹ Academy of Sciences of the Czech Republic, Czech Republic, ² AGH University of Science and Technology, Poland
[P2.7.16]	Material properties and micro-hole characteristics of hybrid CNTs/FE/AL₂O₃ nanocomposites for micro edm applications , H.S. Tak* ¹ , W.G. Kim ¹ , C.S. Ha ¹ , H.J. Lee ¹ , Y.H. Choa ² , M.C. Kang ¹ , ¹ Pusan National University, Korea, ² Hanyang University, Korea
[P2.7.17]	Micro-raman investigation of transition metal oxide coated carbon nanotubes for gas sensing applications , A. Donato ¹ , S. Santangelo ¹ , A. Arena ² , G. Neri ² , E. Piperopoulos* ² , M.G. Willinger ³ , ¹ Mediterranea University, Italy, ² Messina University, Italy, ³ Aveiro University, Portugal
[P2.7.18]	Nano-manipulation experiments on multiwall carbon nanotube-reinforced ceramic matrix composites , M. Estili* ^{1,2} , A. Kawasaki ² , ¹ Tohoku University, Japan, ² Tohoku University, Japan
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[P2.7.22]	Study on stable dispersion of functionalised FE-mwcnts , C. Tripisciano*, S. Costa, E. Borowiak-Palen, <i>West Pomeranian University of Technology, Poland</i>
[P2.7.23]	Surface studies of oxidized multiwalled carbon nanotubes (ox-MWCNTs) modified in the temperature range RT - 630° C , J. Zemek* ¹ , P. Jiricek ¹ , B. Lesiak ² , L. Stobinski ^{2,3} , G. Slowinski ³ , K.J. Kurzydowski ³ , ¹ <i>Institute of Physics, Czech Republic</i> , ² <i>Institute of Physical Chemistry, Poland</i> , ³ <i>Warsaw University of Technology, Poland</i>
[P2.7.24]	The characteristics of multi-walled carbon nanotubes by a two step purification scheme via dielectrophoresis , C. Wei* ¹ , T. Wei ¹ , F. Tai ² , ¹ <i>Tatung University, Taiwan</i> , ² <i>National Tsing Hua University, Taiwan</i>
[P2.7.25]	The influence of nanoscale defects on the fracture of multi-walled carbon nanotubes under tensile loading , G. Yamamoto* ^{1,3} , J.W. Suk ² , J. An ² , T. Hashida ¹ , T. Takagi ¹ , R.S. Ruoff ² , ¹ <i>Tohoku University, Japan</i> , ² <i>University of Texas at Austin, USA</i>
[P2.7.26]	Transfection of cells with magnetically enhanced single-walled carbon nanotubes , S. Park* ¹ , M. Cha ² , S. Jung ³ , J. Shin ³ , J. Lee ^{1,2} , ¹ <i>Seoul National University, Korea</i> , ² <i>Institute of Advanced Machinery and Design, Korea</i> , ³ <i>Seoul National University, Korea</i>
[P2.7.27]	Vertically aligned single-wall carbon nanotubes by spatially confinement grown , C. Morant ¹ , T. Campo ¹ , F. Marquez ² , C. Domingo ³ , J.M. Sanz ¹ , E. Elizalde* ¹ , ¹ <i>Universidad Autónoma de Madrid, Spain</i> , ² <i>Turabo University, Puerto Rico</i> , ³ <i>CSIC, Spain</i>
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[P2.8.02]	An investigation of thermal conductivity property of the hydrogen free DLC coating , M.S. Leu* ¹ , L.C. Chen ^{1,2} , ¹ <i>Industrial Technology Research Institute, Taiwan</i> , ² <i>National Taiwan University, Taiwan</i>
[P2.8.03]	Antibacterial property of DLC film coated on textile material , N. Kitahara* ¹ , T. Sato ¹ , H. Isogawa ² , Y. Ohgoe ¹ , F. Shizuku ² , K. Hirakuri ¹ , ¹ <i>Tokyo Denki University, Japan</i> , ² <i>Sankyo Seisakusho Limited, Japan</i>
[P2.8.04]	Application to white light emitting device using carbon nitride films , Y. Iwano* ¹ , K. Itoh ¹ , S. Kunitsugu ² , K. Takarabe ³ , Y. Furukawa ⁴ , T. Sugino ⁵ , ¹ <i>Tsuyama National College of Technology, Japan</i> , ² <i>Industrial Technology Center of Okayama Prefecture, Japan</i> , ³ <i>Okayama University of Science, Japan</i> , ⁴ <i>Toyohashi University of Technology, Japan</i> , ⁵ <i>Osaka University, Japan</i>
[P2.8.05]	Characterization of diamond-like carbon deposited on metal substrates by liquid-phase electrodeposition , N. Mayama*, H. Yoshida, Y. Hanaoka, Y. Morita, T. Iwata, M. Owari, <i>The University of Tokyo, Japan</i>
[P2.8.06]	Cross-sectional hydrogen content and mass density profiles of DLC film by neutron and X-ray reflectivity , K. Ozeki* ¹ , H. Saitoh ² , M. Yonemura ¹ , K. Hirakuri ³ , M. Takeda ⁴ , T. Masuzawa ¹ , ¹ <i>Ibaraki University, Japan</i> , ² <i>Nagaoka University of Technology, Japan</i> , ³ <i>Tokyo Denki University, Japan</i> , ⁴ <i>Japan Atomic Energy Agency, Japan</i>
[P2.8.07]	Deposition and structural analyses of molybdenum-disulfide (MOS₂) – amorphous hydrogenated carbon (A-C:H) composite coatings , T. Takeno* ¹ , S. Abe ² , K. Adachi ² , H. Miki ² , T. Takagi ² , ¹ <i>Tohoku University Advanced Research and Education Organization, Japan</i> , ² <i>Tohoku University, Japan</i>
[P2.8.08]	Distribution of angular mismatching between crystallites in diamond films grown in microwave plasma , V.M. Tkach* ¹ , I.M. Fodchuk ¹ , V.G. Ralchenko ¹ , ¹ <i>Russian Academy of Science, Russia</i> , ² <i>National academy of Science of Ukraine, Ukraine</i> , ³ <i>Yu. Fed'kovich Chernivtsi National University, Ukraine</i>
[P2.8.09]	Effect of increasing hardness on si-containing diamond-like carbon film during tribo-test , S.G. Kim* ^{1,2} , N. Saito ² , S.W. Kim ¹ , O. Takai ² , ¹ <i>KITECH, Korea</i> , ² <i>Nagoya University, Japan</i>
[P2.8.10]	Effect of oxygen plasma treatment on non-thrombogenicity of diamond-like carbon films , S. Nagashima* ¹ , T. Hasebe ^{1,2} , A. Kamijo ³ , A. Hotta ¹ , T. Suzuki ¹ , K. Takahashi ⁴ , ¹ <i>Keio University, Japan</i> , ² <i>Toho University Sakura Medical Center, Japan</i> , ³ <i>Yokohama City University Hospital, Japan</i> , ⁴ <i>The University of Tokyo Hospital, Japan</i>
[P2.8.11]	Electrical and optical properties of diamond-like carbon films deposited by pulsed laser ablation , K. Honglertkongsakul* ¹ , P. May ² , B. Paosawatyanong ^{1,3} , ¹ <i>Chulalongkorn University, Thailand</i> , ² <i>University of Bristol, UK</i> , ³ <i>TheEP Center, Thailand</i>
[P2.8.12]	Field ion and field emission microscopy of diamond-like carbon films prepared in methanol solution , T. Iwata* ¹ , H. Yoshida ¹ , S. Mikami ¹ , N. Mayama ¹ , M. Owari ¹ , K. Okuno ² , ¹ <i>The University of Tokyo, Japan</i> , ² <i>Nagasaki Institute of Applied Science, Japan</i>
[P2.8.13]	Formation of interface layer during dlc films deposition on the aisi-316l stainless steel , M. Dudek ¹ , P. Jedrzejowski ² , P. Krawczonek ¹ , D. Bociaga* ¹ , ¹ <i>Technical University of Lodz, Poland</i> , ² <i>Ecole Polytechnique Montreal, Canada</i>

[P2.8.14]	FT-IR study on carbon-hydrogen bonds in diamondlike carbon films , H. Motoyama*, S. Takabayashi, H. Sakaue, H. Suzuki, T. Takahagi, <i>Hiroshima University, Japan</i>
[P2.8.15]	Hydrogen quantification in hydrogenated amorphous carbon films by infrared, raman and x-ray absorption near edge spectroscopies , J.G. Buijnsters* ^{1,2} , R. Gago ¹ , I. Jimenez ¹ , M. Camero ¹ , F. Agulló-Rueda ¹ , C. Gómez-Aleixandre ¹ , ¹ <i>Instituto de Ciencia de Materiales de Madrid, Spain</i> , ² <i>Radboud University Nijmegen, The Netherlands</i>
[P2.8.16]	In vitro analysis of fluorine ion release from fluorine-incorporated amorphous carbon films , N. Mashimo* ¹ , H. Kodama ² , A. Kamijo ³ , A. Hotta ¹ , T. Suzuki ¹ , T. Hasebe ^{1,4} , ¹ <i>Keio University, Japan</i> , ² <i>Kanagawa Academy of Science and Technology, Japan</i> , ³ <i>Yokohama City University Hospital, Japan</i> , ⁴ <i>University Sakura Medical Center, Japan</i>
[P2.8.17]	Local and non-local electron spectroscopy tools to probe the structure of amorphous carbon , L. Calliari ¹ , M. Filippi ¹ , C. Surdu-Bob ³ , M. Badulescu ³ , S. Torrenge* ² , G. Speranza ¹ , ¹ <i>Fondazione Bruno Kessler, Italy</i> , ² <i>Università di Trento, Italy</i> , ³ <i>National Institute for Lasers, Romania</i>
[P2.8.18]	Low temperature reactive magnetron sputtering of nanocrystalline Ti(N,C) and amorphous DLC coatings , C. Tsotsos* ¹ , K. Polychronopoulou ^{1,2} , M. Baker ³ , A. Matthews ⁴ , A. Polycarpou ² , C. Rebholz ¹ , ¹ <i>University of Cyprus, Cyprus</i> , ² <i>University of Illinois at Urbana-Champaign, USA</i> , ³ <i>University of Surrey, UK</i> , ⁴ <i>University of Sheffield, UK</i>
[P2.8.19]	Mechanical and tribological properties of boron, nitrogen-coincorporated diamond-like carbon films prepared by reactive radio-frequency magnetron sputtering , H.N. Nakazawa* ¹ , A.S. Sudoh ¹ , M.S. Suemitsu ² , K.Y. Yasui ³ , T.I. Itoh ² , T.E. Endoh ² , ¹ <i>Hirosaki University, Japan</i> , ² <i>Tohoku University, Japan</i> , ³ <i>Nagaoka University of Technology, Japan</i> , ⁴ <i>Yamagata University, Japan</i>
[P2.8.20]	Mechanical, thermal properties and microstructures of tetrahedral amorphous carbon (ta-C) films , S. Miyai* ¹ , T. Kobayashi ² , T. Terai ¹ , ¹ <i>University of Tokyo, Japan</i> , ² <i>RIKEN, Japan</i>
[P2.8.21]	Mechanical/tribological properties and biocompatibility of carbon coatings sputtered on cocromo implant alloy , P. Bohac* ¹ , E. Zdravcecka ⁴ , V. Kulikovskiy ^{1,5} , M. Stranyanek ^{1,2} , R. Ctvrtlik ^{1,2} , A. Zdarilova ³ , ¹ <i>Institute of Physics, Czech Republic</i> , ² <i>Joint Laboratory of Optics, Czech Republic</i> , ³ <i>Palacky University, Czech Republic</i> , ⁴ <i>Technical University, Slovakia</i> , ⁵ <i>Academy of Sciences of Ukraine, Ukraine</i>
[P2.8.22]	Modification of tribological performance of DLC films by means of some elements addition , N. Moolsradoo*, S. Watanabe, <i>Nippon Institute of Technology, Japan</i>
[P2.8.23]	Structure and electrical properties of a-C:H thin films deposited by RF sputtering , M.Y. Yamazato*, I.M. Mizuma, A.H. Higa, <i>University of the Ryukyus, Japan</i>
[P2.8.24]	Surface modification of DLC film by silane coupling agent and cytocompatibility evaluation , Y. Hoshino*, H. Matsuo, Y. Ohgoe, K. Hirakuri, Y. Fukui, <i>Tokyo Denki University, Japan</i>
[P2.8.25]	The effect of CNT content on the properties of CNTS doped diamond like carbon films , C. Wei* ¹ , C. Wang ¹ , F. Tai ² , ¹ <i>Tatung University, Taiwan</i> , ² <i>National Tsing Hua University, Taiwan</i>
[P2.8.26]	The stress reduction effect by interlayer deposition or film thickness for diamond like carbon on rough surface , C. Wei* ¹ , J. Yang ¹ , F. Tai ¹ , ¹ <i>Tatung University, Taiwan</i> , ² <i>National Tsing Hua University, Taiwan</i>
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[P2.8.29]	XPS study on the surface chemical structure of diamondlike carbon films , S. Takabayashi*, H. Motoyama, H. Sakaue, T. Takahagi, <i>Hiroshima University, Japan</i>
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[P2.9.02]	Deposition and characterization of hydrogenated diamond-like carbon thin films on rubber seals , Y.T. Pei*, X.L. Bui, J.Th.M. De Hosson, <i>University of Groningen, The Netherlands</i>
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[P2.9.04]	Diamond-like carbon/ silicon heterojunction passivation for ultra-high voltage silicon thyristors , Q. Zhang* ¹ , A. Plumpton ¹ , D.A. Scott ¹ , D. Newcombe ¹ , G.A.J. Amaratunga ¹ , ¹ <i>University of Cambridge, UK</i> , ² <i>Dynex Semiconductor, UK</i>

[P2.9.05]	Fabrication and characterization of DLC coating on LiNbO₃ SAW devices , H. Yu*, J. Robertson, <i>University of Cambridge, UK</i>
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[P2.9.07]	Properties and tool performance of Ta-C films deposited by double-bend filtered cathodic vacuum arc for micro drilling applications , M.C. Kang* ¹ , M.W. Kim ¹ , D.H. Kwon ² , Y.K. Jeong ¹ , Y.H. Jun ³ , ¹ <i>Pusan National University, Korea</i> , ² <i>Pusan National University, Korea</i> , ³ <i>J&LTech Co.,Ltd., Korea</i>
[P2.9.08]	Radiation detector on the base of synthetic diamond , N.B. Rodionov* ¹ , V.N. Amosov ¹ , V.D. Blank ² , S.A. Terentiev ² , M.S. Kuznetsov ² , S.V. Meshaninov ¹ , ¹ <i>SRC RF 'Troitsk Institute for Innovation and Fusion Research', Russia</i> , ² <i>Technological Institute for Superhard and Novel Carbon Materials, Russia</i>
[P2.9.09]	Tribological properties of polymer composites with diamond-like carbon flakes , T. Ohana*, X. Wu, T. Nakamura, A. Tanaka, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
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[P2.10.01]	Carbon nitride (C-N) thin films grown by RF plasma assisted pulsed laser deposition , E. Cappelli ¹ , S. Orlando ² , D.M. Trucchi* ¹ , V. Valentini ¹ , R. Zaroni ³ , ¹ <i>CNR-ISC, Italy</i> , ² <i>CNR-IMIP, Italy</i> , ³ <i>Università di Roma, Italy</i>
[P2.10.02]	Diagnostic of ar-n₂-o₂ magnetron sputter plasma for the deposition of cubic boron nitride films , J. Ye*, S. Ulrich, M. Stüber, <i>Institute for Materials Research I, Germany</i>
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[P2.10.06]	High-yield synthesis of boron nitride nanotubes by chemical vapor deposition , J. Nocua* ¹ , G. Morell ^{1,2} , B. Weiner ^{1,2} , ¹ <i>University of Puerto Rico, Puerto Rico</i> , ² <i>Institute for Functional Nanomaterials, Puerto Rico</i>
[P2.10.07]	Influences of repetition rate of laser pulses on growth of crystalline aln thin films on sapphire(0001) substrates by pulsed laser deposition , K. Sumitani* ¹ , R. Ohtani ¹ , T. Yoshida ² , Y. Nakagawa ² , S. Mohri ² , T. Yoshitake ² , ¹ <i>Saga Light Source, Japan</i> , ² <i>Kyushu University, Japan</i>
[P2.10.08]	Magnetron sputter deposition of cubic boron nitride films using pulsed substrate bias , S. Ulrich* ¹ , J. Ye ¹ , M. Stüber ¹ , M. Lattemann ^{2,1} , ¹ <i>Forschungszentrum Karlsruhe, Germany</i> , ² <i>Technische Universität Darmstadt and Forschungszentrum Karlsruhe, Germany</i>
[P2.10.09]	N-type conductivity of cubic boron nitride films induced by sulfur ion implantation , B. He, W.J. Zhang, Y.M. Chong, Q. Ye*, Y. Yang, X.J. Pan, <i>City University of Hong Kong, Hong Kong</i>
[P2.10.10]	Nucleation of cubic boron nitride in a lithium amide flux system , H. Sachdev* ^{1,2} , ¹ <i>Universität des Saarlandes, Germany</i> , ² <i>National Institute for Material Science, Japan</i>
[P2.10.11]	Raman spectroscopic characterisation of boron nitride phases , H. Sachdev* ¹ , K. Watanade ¹ , H. Kanda ¹ , T. Taniguchi ¹ , ¹ <i>Universität des Saarlandes, Germany</i> , ² <i>National Institute of Material Science, Japan</i>
[P2.10.12]	Studying cubic boron nitride by raman and IR spectroscopies , O. Kutsay*, Ce Yan, Y.M. Chong, I. Bello, W.J. Zhang, J.A. Zapien, <i>City University of Hong Kong, Hong Kong</i>
[P2.10.13]	Synchrotron x-ray diffraction study of a single-phase cubic-aln epitaxially grown on a sapphire(0001) substrate by pulsed laser deposition , K. Sumitani* ¹ , R. Ohtani ¹ , T. Yoshida ² , Y. Nakagawa ² , S. Mohri ² , T. Yoshitake ² , ¹ <i>Saga Light Source, Japan</i> , ² <i>Kyushu University, Japan</i>
[P2.10.14]	Temperature dependence of pecvd grown boron nitride film in mis structure , O. Özdemir, B. Bozkurt, D. Yilmazer*, P. Gökdemir, K. Kutlu, <i>Yildiz Technical University, Turkey</i>

