

POSTER PROGRAMME

Session 5: Posters I
Monday, 4 September 2017 at 18:00-19:30

[P5.01]	Effects of an ethanol addition on the growth of carbon nanotube during combustion in a diesel engine S. Suzuki*, S. Mori, <i>Tokyo Institute of Technology, Japan</i>
[P5.02]	Spontaneous diameter control synthesis of single-walled and a few layers carbon nanotubes S. Inoue* ¹ , S. Lojindarat ² , T. Kawamoto ¹ , Y. Matsumura ¹ , T. Charinpanitkul ¹ , ¹ <i>Hiroshima University, Japan</i> , ² <i>Chulalongkorn University, Thailand</i>
[P5.03]	Carbon nanofibers on si substrate by simple process of microwave-assisted physical vapour deposition J. Onsopa* ¹ , M. Thepnurat ² , D. Wongratanaphisan ¹ , A. Gardchareon ¹ , S. Phadungthitidhada ¹ , P. Ruankham ¹ , S. Choopun ¹ , ¹ <i>Chiang Mai University, Thailand</i> , ² <i>Chiang Rai Rajabhat University, Thailand</i>
[P5.04]	Longitudinal splitting of multi-walled carbon nanotubes via acid vapour toward controllable synthesis of high-quality graphitic nanoribbons M. Yang*, T.X. Fan, D. Zhang, <i>Shanghai Jiao Tong University, China</i>
[P5.05]	Transient behaviour of as-grown carbon nanotube thin film on the occasion of molecular adsorption Y. Tomita*, S. Inoue, Y. Matsumura, <i>Hiroshima University, Japan</i>
[P5.06]	Little by little addition of CNTs to Al/Ti powder composite to achieve uniform distribution of nanotubes M. Haddad-Sabzevar*, F. Saba, S.A. Sajjadi, <i>Ferdowsi University of Mashhad, Iran</i>
[P5.07]	Multi-wavelength Raman investigation of carbon fibres produced from conventional and sustainable precursors towards online monitoring feasibility P. Jagdale* ¹ , M. Rovero ¹ , D. Dragatogiannis ² , E. Koumoulos ² , A. Khan ² , P. Mandrachi ¹ , C. Charitidis ² , A. Tagliaferro ¹ , ¹ <i>Politecnico di Torino, Italy</i> , ² <i>National Technical University of Athens, Greece</i>
[P5.08]	The carbon nanotubes (CNTs) filled poly(2,6-dimethyl-1,4-phenylene oxide) hybrid membranes for the air separation A. Rybak* ¹ , W. Kaszuwara ² , S. Awietjan ² , R. Molak ² , S. Boncel ¹ , ¹ <i>Silesian University of Technology, Poland</i> , ² <i>Warsaw University of Technology, Poland</i>
[P5.09]	TiC/CNT dual-nanoreinforced aluminum-matrix composite fabricated by a pressureless spark plasma sintering (SPS) method S.A. Sajjadi*, F. Saba, M. Haddad Sabzevar, <i>Ferdowsi University of Mashhad, Iran</i>
[P5.10]	Unzipped carbon nanotube films converted from spun multi walled carbon nanotubes for growth and phase transition characteristics of nanostructured VO₂ H-S. Jang* ¹ , K-C. Kim ² , ¹ <i>World Tech. Co. Ltd., Republic of Korea</i> , ² <i>Mokwon University, Republic of Korea</i>
[P5.11]	Synergistic reinforcement of tungsten carbide and carbon nanotubes for improving the fracture toughness of titanium carbide based ultra high temperature ceramic M. Sribalaji* ¹ , B. Mukherjee ¹ , A. Islam ¹ , T. Laha ² , A.K. Keshri ¹ , ¹ <i>Indian Institute of Technology Patna, India</i> , ² <i>Indian Institute of Technology Kharagpur, India</i>
[P5.12]	Nickel doped diamond-like carbon thin film electrodes: Effect of annealing and implications for physical and electrochemical properties N. Wester*, E. Leppänen, J. Etula, T. Laurila, J. Koskinen, <i>Aalto University, Finland</i>
[P5.13]	Electronic properties, bonding structure and mechanical behaviours of a-CN_x:Si(:B) thin films S.C. Ray* ¹ , W.F. Pong ² , ¹ <i>University of South Africa, South Africa</i> , ² <i>Tamkang University, Taiwan</i>
[P5.14]	Laser irradiation to self-supporting ta-C film prepared using T-shape filtered arc deposition T. Harigai* ¹ , M. Yamano ¹ , T. Kawano ¹ , Y. Suda ¹ , H. Takikawa ¹ , M. Nishiuchi ² , H. Sakaki ² , K. Kondo ² , S. Kaneko ³ , S. Kunitsugu ⁴ , ¹ <i>Toyohashi University of Technology, Japan</i> , ² <i>Kansai Photon Science Institute, Japan</i> , ³ <i>Kanagawa Industrial Technology Center, Japan</i> , ⁴ <i>Industrial Technology Center of Okayama Prefecture, Japan</i> , ⁵ <i>University of Hyogo, Japan</i>
[P5.15]	Influence of microstructure and chemical composition of different steels on DLC films adhesion P.C.S. Silva* ^{1,2} , D.C. Lugo ¹ , M.A. Ramirez ¹ , E.J. Corat ¹ , V.J. Trava-Airoldi ¹ , ¹ <i>National Institute for Space Research - INPE, Brazil</i> , ² <i>Science and Technology of Sao Paulo - IFSP Pirituba, Brazil</i>
[P5.16]	Nanotexturing amorphous carbon films by reactive ion etching A. Godoy Junior* ¹ , F.G. Carlucci ¹ , W. Miyakawa ¹ , D.M.G. Leite ¹ , M. Massi ² , A.S.S. Sobrinho ¹ , ¹ <i>Technological Institute of Aeronautics, Brazil</i> , ² <i>Mackenzie Presbyterian University, Brazil</i>

[P5.17]	Wear property of DLC coating for medical devices K. Sakurai* ¹ , K. Terai ¹ , H. Nakamori ² , M. Hiratsuka ² , K. Namiki ³ , K. Hirakuri ¹ , K. Sato ¹ , ¹ Tokyo Denki University, Japan, ² Nanotec Co. Ltd, Japan, ³ Namiki-Mi Co. Ltd, Japan
[P5.18]	Surface coating of aluminium alloys sintered products for automotive applications using DC and RF sputtering I. Solomon, C. Deb, N. Chhatral, B. Sarma, V. Umasankar, A. Sarma*, VIT University Chennai, India
[P5.19]	Improving the mechanical properties of amorphous carbon films by silicon doping A.S. Chaus* ² , D.G. Piliptsov ¹ , P. Pokorný ² , X.H. Jiang ¹ , A.V. Rogachev ¹ , ¹ Nanjing University of Science and Technology and Francisk Skorina Gomel State University, China, ² Slovak University of Technology in Bratislava, Slovakia
[P5.20]	Hardness improvement of binderless boron nitride composites through hybrid CO₂ laser/waterjet heat treatment J. Zhao* ¹ , P. Shrotriya ^{1,2} , V. Bushlya ³ , ¹ Tianjin University of Science and Technology, China, ² Iowa State University, USA, ³ Lund University, Sweden
[P5.21]	The impact of diamond-like-carbon coating on the function abilities of port fuel injectors J.Y. Lambongang*, P. Suwanpinij, The Sirindhorn International Thai-German Graduate School of Engineering, Thailand
[P5.22]	Effect of kink structure and chlorine on the magnetism of carbon nanowires array C.H. Wong*, E.A. Buntov, A.F. Zatsepin, Ural Federal University, Russia
[P5.23]	Mechanical and electronic properties of diamond-like carbon films by PVD W.M. Mbiombi*, B. Mathe, D. Wamwangi, R. Erasmus, D.G. Billing, Wits University, South Africa
[P5.24]	Surfen-assembled graphene oxide for fluorescence turn-on detection of sulfated glycosaminoglycans in a biological matrix Y-T. Wang, W-L. Tseng*, National Sun Yat-sen University, Taiwan
[P5.25]	Graphene oxide and MWCNTs as promising additives for stand-alone reverse osmosis membranes for water desalination W. Falath, King Fahd University of Petroleum and Minerals, Saudi Arabia
[P5.26]	Preparation and properties of sheets of reduced graphene oxide anchored with Nd-La doped Sr₂CuMgFe₂₈O₄₆ nanoparticles P. Alimard, Payame Noor University, Iran
[P5.27]	Oxygen barrier properties of coated layer composed of graphene oxide and chitosan nanofibre S.B. Lee*, H.J. Kim, E.A. Shin, C.K. Lee, Korea Institute of Industrial Technology, Republic of Korea
[P5.28]	One-Pot reduction and amination of graphite oxide H. Aguilar-Bolados* ¹ , R. Quijada ¹ , M. Yazdani-Pedram ¹ , R. Verdejo ² , M. Lopez-Manchado ² , ¹ Universidad de Chile, Chile, ² Institute of Polymer Science and Technology CSIC, Spain
[P5.29]	Voronoi-tessellated and hexagonal-platelet graphite by Mg catalysed graphitisation L. Zhao*, X. Zhao, L.T. Burke, M.N. Obrovac, Dalhousie University, Canada
[P5.30]	Comparison of microstructures of Al-Gr composites produced using liquid homogenisation followed by cold press-sintering and spark-plasma sintering A. Babakhani*, H. Pakdell Noghabi, S.A. Sajjadi, Ferdowsi University of Mashhad, Iran
[P5.31]	Surface morphology studies of graphene adsorbed on the Fe(110) surface X. He*, Q.S. Bai, R.Q. Shen, J.X. Bai, Harbin Institute of Technology, China
[P5.32]	Improvement in electrical and thermal characteristics of copper using PVD based graphene U. Narula* ¹ , C.M. Tan ^{1,2} , ¹ Chang Gung University, Taiwan, ² Ming Chi University of Technology, Taiwan
[P5.33]	Magnetic properties of porous graphene networks M. Maruyama*, S. Okada, University of Tsukuba, Japan
[P5.34]	The detection of terahertz radiation using graphene-layer and graphene-nanoribbon FETs with asymmetric contacts I.A. Gayduchenko* ¹ , G.E. Fedorov ^{1,2} , M.G. Rybin ³ , E.D. Obratsova ³ , G.N. Gol'Tsman ¹ , V.I. Ryzhii ⁴ , ¹ Moscow State University of Education, Russia, ² Moscow Institute of Physics and Technology, Russia, ³ Prokhorov General Physics Institute, Russia, ⁴ Tohoku University, Japan
[P5.35]	Nanostructured composite titanium oxide/reduced graphene oxide/carbon fibre applied as electrode for supercapacitor application W.D. Toledo, A.B. Couto, D.A.L. Almeida, N.G. Ferreira*, Instituto Nacional de Pesquisas Espaciais, Brazil

[P5.36]	Electrostatic potential barrier for electron emission at graphene edges induced by the nearly free electron states Y. Gao*, S. Okada, <i>University of Tsukuba, Japan</i>
[P5.37]	Charge transport in diamond – graphene heterostructures: Experiment vs molecular dynamics investigation M. Ficek ¹ , M. Sobaszek ¹ , A. Nosek ² , L. Golunski ^{1,2} , M. Bockrath ² , W.A. Goddard ³ , T. Ossowski ⁴ , R. Bogdanowicz* ¹ , ¹ <i>Gdańsk University of Technology, Poland</i> , ² <i>University of California, Riverside, USA</i> , ³ <i>California Institute of Technology, USA</i> , ⁴ <i>University of Gdańsk, Poland</i>
[P5.38]	Fabrication and characterisation of vertically aligned diamond nanowires and their application in bio-electrochemistry A. Udoy* ¹ , M. Rahman ¹ , A. Talukder ² , A. Hageb ¹ , ¹ <i>Ulm University, Germany</i> , ² <i>University of Massachusetts Lowell, USA</i>
[P5.39]	Conducting polymer deposited 3D diamond nanostructures: A pioneer microelectrode concept for biosensing application A. Udoy*, A. Hageb, M. Rahman, <i>Ulm University, Germany</i>
[P5.40]	Electrochemical performance of micro/nano-structured boron-doped diamond electrodes for sensing applications A.F. Sartori* ¹ , H. Payens ¹ , M. Girolami ² , A. Bellucci ² , D.M. Trucchi ² , T. Boehme ^{3,4} , T. Hantschel ³ , W. Vandervorst ^{3,4} , J.G. Buijnsters ¹ , ¹ <i>Delft University of Technology, The Netherlands</i> , ² <i>CNR-ISM Istituto di Struttura della Materia, Italy</i> , ³ <i>IMEC vzw, Belgium</i> , ⁴ <i>KU Leuven, Belgium</i>
[P5.41]	Diamond nanosheet membranes: Electrochemical performance and ion transport properties W. Bialobrzaska ¹ , P. Niedzialkowski ¹ , M. Ficek ² , L. Rycewicz ² , R. Bogdanowicz ² , T. Ossowski* ¹ , ¹ <i>University of Gdańsk, Poland</i> , ² <i>Gdańsk University of Technology, Poland</i>
[P5.42]	Fabrication of triple-gate hydrogenated diamond MOSFETs J. Liu*, H. Ohsato, X. Wang, M. Liao, Y. Koide, <i>NIMS, Japan</i>
[P5.43]	Hydrogen-terminated diamond field-effect transistors with ultrathin Al₂O₃ dielectric layer formed by autoxidation Y-F. Wang*, X-H. Chang, S-Y. Li, D. Zhao, T-F. Zhu, J. Fu, P-F. Zhang, F-N. Li, Z-C. Liu, G-Q. Shao, <i>Xian Jiaotong University, China</i>
[P5.44]	Electrical characteristics of Zirconium and Niobium contacts on boron-doped diamond M. Davydova* ¹ , A. Taylor ¹ , P. Hubík ¹ , J. More-Chevalier ¹ , D. Trémouilles ² , A. Soltani ³ , V. Mortet ^{1,4} , ¹ <i>Institute of Physics of CAS, Czech Republic</i> , ² <i>Université de Toulouse, France</i> , ³ <i>Université de Sherbrooke, Canada</i> , ⁴ <i>Czech Technical University in Prague, Czech Republic</i>
[P5.45]	Substrate temperatures dependence during B⁺-implantation for electrical and optical properties in forming p-type diamond Y. Seki*, Y. Hoshino, J. Nakata, <i>Kanagawa University, Japan</i>
[P5.46]	A high temperature DLTS system for defect investigation in diamond S. Majdi*, N. Suntornwipat, M. Gabrysch, J. Isberg, <i>Uppsala University, Sweden</i>
[P5.47]	Quantify the spin density of undoped and doped ultrananocrystalline diamond/hydrogenated amorphous carbon films prepared by pulsed laser deposition S. Al Riyami* ¹ , Y. Katamune ² , T. Yoshitake ³ , ¹ <i>The Research Council, Oman</i> , ² <i>Kyushu Institute of Technology, Japan</i> , ³ <i>Kyushu University, Japan</i>
[P5.48]	Fluctuation spectroscopy as a probe for granular superconducting diamond films G.M. Klemencic* ¹ , J.M. Fellows ² , J.M. Werrell ¹ , S. Mandal ¹ , S.R. Giblin ¹ , R.A. Smith ³ , O.A. Williams ¹ , ¹ <i>Cardiff University, UK</i> , ² <i>University of Bristol, UK</i> , ³ <i>University of Birmingham, UK</i>
[P5.49]	Study of energy relaxation in boron-doped diamond film N. Titova ¹ , A. Kardakova ¹ , I. Gayduchenko* ¹ , N. Tovpeko ¹ , S. Ryabchun ¹ , O. Williams ² , E. Bustarret ³ , G. Goltsman ¹ , T.M. Klapwijk ^{1,4} , ¹ <i>Moscow State University of Education, Russia</i> , ² <i>Cardiff University, UK</i> , ³ <i>CNRS, Institut Néel, France</i> , ⁴ <i>Delft University of Technology, The Netherlands</i>
[P5.50]	The enhanced hole mobility analysis in nanometric diamond delta doping with boron I.V. Ponomarev*, J.E. Butler, <i>Euclid Techlabs, USA</i>
[P5.51]	Superdiffusion applications to silicon carbide technologies A.J. Janavicius*, R. Purlys, R. Rinkunas, <i>Šiauliai University, Lithuania</i>
[P5.52]	Oxidant enhanced chemical mechanical polishing of rough diamond films S. Mandal*, E. Thomas, J. Green, O. Williams, <i>Cardiff University, UK</i>

[P5.53]	Molecular dynamics characterisation of boron doped diamond-BC₃ E. Kishor*, N. Swaminathan, <i>Indian Institute of Technology, Madras, India</i>
[P5.54]	Fabrication of thick and high-aspect ratio components in single crystalline diamond by deep reactive ion etching A. Toros* ¹ , M. Kiss ¹ , T. Graziosi ¹ , H. Sattari ¹ , P. Gallo ² , N. Quack ¹ , ¹ EPFL, Switzerland, ² LakeDiamond SA, Switzerland
[P5.55]	Application of monocrystal diamond prisms for energy-dispersive X-ray spectrometry and wave front analysis of intense radiation fluxes A.G. Turyanskiy* ¹ , O.V. Konovalov ² , S.S. Gizha ^{1,4} , I.V. Pirshin ¹ , A. Koliadin ³ , A.V. Katrusha ³ , R. Isakov ³ , Y. Loginov ³ , N. Khikhinashvili ¹ , ¹ Lebedev Physical Institute RAS, Russia, ² ESRF, France, ³ New Diamond Technology, Russia, ⁴ Moscow Institute of Physics and Technology, Russia
[P5.56]	Vacuum ultraviolet image detector E.A. Il'ichev ¹ , E.A. Kuleshov ¹ , S.V. Kuklev ^{1,2} , R.M. Nabiev ¹ , G.N. Petrukhin* ¹ , G.S. Rychkov ¹ , D.S. Sokolov ^{1,2} , E.G. Teverovskaya ¹ , ¹ National Research University of Electronics Technology, Russia, ² MELZ-FEU Ltd, Russia
[P5.57]	Theoretical modelling of ultrafast strong field dynamics in diamond T.A. Apostolova*, B.D. Obreshkov, <i>INRNE, Bulgaria</i>
[P5.58]	Quantitative study on graphitisation and optical absorption of CVD diamond films after rapid heating treatment X. Yan*, J. Wei, K. An, Y. Zhao, J. Liu, L. Chen, L. Hei, C. Li, <i>University of Science and Technology Beijing, China</i>
[P5.59]	Poly- and monocrystalline diamond films with embedded luminescent Rare-Earth fluoride nanoparticles V.S. Sedov* ¹ , S.V. Kuznetsov ¹ , V.G. Ralchenko ^{2,1} , M.N. Mayakova ¹ , A.K. Martyanov ¹ , V.S. Krivobok ³ , S.N. Nikolaev ³ , A.A. Khomich ¹ , P.P. Fedorov ¹ , V.I. Konov ¹ , ¹ General Physics Institute RAS, Russia, ² Harbin Institute of Technology, China, ³ Lebedev Physical Institute RAS, Russia
[P5.60]	The diamond nv-centre: a theoretical study of the interaction with other defects and impurities R. Löfgren*, R. Pawar, S. Öberg, J.A. Larsson, <i>Luleå University of Technology, Sweden</i>
[P5.61]	Transmission of polycrystalline diamond for zero phonon line of SiV centres D. Tyralla* ¹ , M. Prieske ¹ , F. Vollertsen ^{1,2} , ¹ BIAS - Institute of Applied Beam Technology GmbH, Germany, ² University of Bremen, Germany
[P5.62]	Zeeman effect for infrared intracenter transitions in ¹¹B doped diamond in high magnetic fields S.A. Tarelkin* ^{1,2} , V.S. Bormashov ^{1,2} , S.G. Pavlov ⁴ , D.L. Kamenskiy ⁵ , M.S. Kuznetsov ¹ , S.A. Terentiev ¹ , D.D. Prikhodko ^{1,2} , H-W. Hübers ^{4,6} , V.D. Blank ^{1,2} , ¹ Technological Institute for Superhard and Novel Carbon Materials, Russia, ² Moscow Institute of Physics and Technology, Russia, ³ National University of Science and Technology MISiS, Russia, ⁴ German Aerospace Center (DLR), Germany, ⁵ Radboud University, The Netherlands, ⁶ Humboldt-Universität zu Berlin, Germany
[P5.63]	Optical characterisation of single crystal diamond grown by DC arc plasma jet CVD L. Hei*, Y. Zhao, J. Wei, J. Liu, C. Li, W. Tang, F. Lu, <i>University of Science and Technology Beijing, China</i>
[P5.64]	Multi-frequency vector magnetic field sensing using nitrogen-vacancy centres in diamond K. Yahata* ¹ , S. Kitazawa ¹ , S. Saijo ¹ , Y. Matsuzaki ² , S. Saito ² , J. Ishi-Hayase ¹ , ¹ Keio University, Japan, ² NTT Corporation, Japan
[P5.65]	Bayesian inference of switching rates for blinking emitters L.J. Rogers*, J. Geordy, T. Volz, A. Gilchrist, <i>Macquarie University, Australia</i>
[P5.66]	Fast and slow dynamics of single-photon emission from electrically pumped colour centres in diamond I.A. Khramtsov* ¹ , M. Agio ^{2,3} , D.Y. Fedyanin ¹ , ¹ Moscow Institute of Physics and Technology, Russia, ² University of Siegen, Germany, ³ National Institute of Optics, Italy
[P5.67]	Large-area two-dimensional array of preferentially-oriented nitrogen-vacancy centres in diamond I. Hanano* ¹ , R. Fujita ¹ , H. Watanabe ² , K. Akahane ³ , J. Ishi-Hayase ¹ , ¹ Keio University, Japan, ² AIST, Japan, ³ National Institute of Information and Communications Technology, Japan
[P5.68]	Thermal conductivity of electrically conductive highly boron doped diamond G.T. Williams*, J.M. Dodson, D.J. Twitchen, <i>Element Six, UK</i>
[P5.69]	Flat-plate thermal conductivity measurements of CVD diamond R. Chukka*, S.Y. Yee, Z. Liu, S. Xiao, D.S. Misra, <i>Ila Technologies Pte Ltd, Singapore</i>
[P5.70]	Vacancies and NV complexes in the C(100) diamond surface layers A.I. Ryazanova* ^{1,2} , O.V. Ponomarev ² , N.A. Lvova ^{1,2} , ¹ Moscow Institute of Physics and Technology, Russia, ² Technological Institute for Superhard and Novel Carbon Materials, Russia

[P5.71]	Logic circuits with hydrogenated diamond MOSFETs J. Liu*, M. Liao, M. Imura, Y. Koide, <i>NIMS, Japan</i>
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Session 5: Young Scholar Award Posters
Monday, 4 September 2017 at 18:00-19:30

[O4.5]	Fluorescent nanodiamonds as multi-purpose labels for (electron) microscopy S.R. Hemelaar* ¹ , P. de Boer ¹ , M. Chipaux ¹ , W. Zuidema ² , T. Hamoh ¹ , F. Perona Martinez ¹ , A. Nagl ¹ , J.P. Hoogenboom ¹ , B.N.G. Giepmans ¹ , R. Schirhagl ¹ ¹ <i>University Medical Center Groningen, The Netherlands</i> , ² <i>Delft University of Technology, The Netherlands</i>
[O8A.1]	Internal structure and electrical properties of laser-induced wires in diamond bulk K.K. Ashikkalieva* ^{1,2} , T.V. Kononenko ^{1,2} , E.A. Obratsova ^{1,2} , E.V. Zavedeev ^{1,2} , E.E. Ashkinazi ^{1,2} , V.I. Konov ^{1,2} , ¹ <i>General Physics Institute of RAS, Russia</i> , ² <i>National Research Nuclear University "MEPhI", Russia</i>
[O8A.3]	Demonstration of V-groove diffraction gratings in single crystal diamond M. Kiss*, T. Graziosi, N. Quack, <i>EPFL, Switzerland</i>
[O10.1]	Expanding the scope of diamond surface chemistry: Stille & Sonogashira cross-coupling reactions J. Raymakers* ¹ , A. Artemenko ² , S. Nicley ¹ , P. Štenclová ² , A. Kromka ² , K. Haenen ¹ , W. Maes ¹ , B. Rezek ^{2,3} ¹ <i>Hasselt University, Belgium</i> , ² <i>Institute of Physics CAS, Czech Republic</i> , ³ <i>Czech Technical University in Prague, Czech Republic</i>
[O11A.5]	Effect of solvents on boron-doped diamond synthesis by in-liquid microwave plasma CVD process Y. Harada* ^{1,2} , Y. Sakurai ² , K. Miyasaka ² , C. Terashima ² , H. Uetsuka ^{1,2} , N. Suzuki ² , K. Nakata ² , K. Katsumata ² , T. Kondo ² , M. Yuasa ² <i>et al.</i> ¹ <i>Asahi Diamond Industrial Co., Ltd., Japan</i> , ² <i>Tokyo University of Science, Japan</i>
[O14.6]	The progress on the investigations of transferred-electron oscillations in diamond N. Suntornwipat*, S. Majdi, M. Gabrysch, J. Isberg, <i>Uppsala University, Sweden</i>

Session 13: Posters II
Wednesday, 6 September 2017 at 16:30-18:00

[P13.01]	Carbon based electrochemical sensors with nafion coating for selective detection of drug molecules E. Mynttinen* ¹ , N. Wester ¹ , J. Etula ¹ , E. Kauppinen ¹ , E. Kalso ^{2,3} , T. Lilius ² , J. Koskinen ¹ , T. Laurila ¹ , ¹ <i>Aalto University, Finland</i> , ² <i>University of Helsinki, Finland</i> , ³ <i>Helsinki University Hospital, Finland</i>
[P13.02]	Carbon coated GaN sensors I.B. Usman*, N.J. Coville, B.W. Mwakikunga, D.M. Wamwangi, <i>University of the Witwatersrand, South Africa</i>
[P13.03]	Development of the direct methanol fuel cell electrocatalyst using marimo nano carbon as a novel electrode material K. Saito* ¹ , K. Nakagawa ^{1,2} , T. Ando ³ , ¹ <i>Kansai University, Japan</i> , ² <i>HRC, Japan</i> , ³ <i>NIMS, Japan</i>
[P13.04]	Oxygen reduction reaction on N-doped activated carbons obtained from chitin and chitosan A. Ilnicka* ¹ , J.P. Lukaszewicz ¹ , K. Shimano ² , M. Yuasa ³ , ¹ <i>Nicolaus Copernicus University, Poland</i> , ² <i>Kyushu University, Japan</i> , ³ <i>Kindai University, Japan</i>
[P13.05]	Low resistivity of heavily nitrogen doped carbon D.A. Zherebtsov* ¹ , K.R. Smolyakova ¹ , R.F. Yantsen ¹ , E.V. Bartashevich ¹ , D.E. Zhivulin ² , V.E. Zhivulin ² , R.S. Morozov ¹ , D.A. Vinnik ¹ , V.V. Avdin ¹ , ¹ <i>South Ural State University, Russia</i> , ² <i>South Ural State Humanitarian Pedagogical University, Russia</i>
[P13.06]	Carbon for energy storage P. Jagdale* ¹ , J. Nair ¹ , G. Rius ² , F. Bella ¹ , G. Meligrana ¹ , A. Tagliferro ¹ , C. Gerbaldi ¹ , ¹ <i>Politecnico di Torino, Italy</i> , ² <i>Institute of Microelectronics of Barcelona, Spain</i>
[P13.07]	Green production of carbon nanomaterials in molten salts and their applications A.R. Kamali, <i>Northeastern University, China</i>
[P13.08]	Plasma functionalisation of a 3D interconnected carbon structure - Aerographite J. Marx* ¹ , T. Schepers ¹ , K. Kröning ¹ , S. Garlof ¹ , D. Smazna ² , R. Adelung ² , K. Schulte ¹ , B. Fiedler ¹ , ¹ <i>Hamburg University of Technology, Germany</i> , ² <i>University of Kiel, Germany</i>

[P13.09]	Deposition of atomically dispersed noble metals on carbon materials U. Petek ^{*1,2} , F. Ruiz Zepeda ¹ , P. Jovanovic ¹ , M. Bele ¹ , M. Gaberscek ^{1,2} , ¹ National Institute of Chemistry, Slovenia, ² Faculty of Chemistry and Chemical Technology, Slovenia
[P13.10]	Carbon nanostructures grafted biopolymers for medical applications P. Zakova*, N. Slepickova Kasalkova, P. Slepicka, V. Svorcik, <i>University of Chemistry and Technology, Czech Republic</i>
[P13.11]	Themolecular behaviors including structure, stability, energy and aromaticity of substituted stable fullerenes from both thermodynamic and kinetic view points, at DFT S. Soleimani-Amiri*, M. Koochi, <i>Islamic Azad University, Iran</i>
[P13.12]	Experimental manifestation of electrodynamical forbiddance of a strong quadrupole light - molecule interaction in methane and fullerene V.P. Chelibanov ¹ , A.M. Polubotko ^{*2} , ¹ State University of Information Technologies, Mechanics and Optics, Russia, ² A.F. Ioffe Physico-Technical Institute, Russia
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