

ISPC 24

24TH INTERNATIONAL SYMPOSIUM ON PLASMA CHEMISTRY
NAPLES (ITALY) JUNE 9-14, 2019

POSTER SESSION 3: June 13, 2019

Topic 3: Plasma processing of nanomaterials and nanostructures: synthesis, modification and nanofabrication	
P3-1 ID-10	<i>Synthesis of N-doped carbon dots by microplasma process</i> <u>Xintong Ma</u> , Sirui Li, Fausto Gallucci
P3-2 ID-15	<i>Effect of plasma uniformity on atomic layer etching in capacitively coupled plasma</i> <u>ZhongLing Dai</u> , Wan Dong, YuanHong Song, YouNian Wang
P3-3 ID-17	<i>Fabrication of silicon particles with graphene-like coatings and their application in lithium-ion battery anodes</i> <u>Giorgio Nava</u> , Joseph Schwan, Lorenzo Mangolini
P3-4 ID-43	<i>Low-temperature plasmas assisted syntheses of carbon nanomaterials</i> <u>Masaru Hori</u> , Hiroki Kondo, Makoto Sekine, Kenji Ishikawa
P3-5 ID-62	<i>Structural Thermal Stability of Fe-based and Ni-based Metallic Glasses under High-intensity Pulsed Ion Beam Irradiation</i> <u>Xianxiu Mei</u> , Xiannan Zhang, Qi Zhang, Gennady E Remnev, Sergey K Pavlov, Younan Wang
P3-6 ID-63	<i>Irradiation Response of Fe-based Metallic Glass Under He Ions and H Ions Bombardment</i> <u>Xiaonan Zhang</u> , Xianxiu Mei, Jianbing Qiang, Younian Wang
P3-7 ID-78	<i>Extremely low oxidation Al and Ti metal fine powder prepared by a developed induction thermal plasma system</i> <u>Yusuke Hirayama</u> , Kenta Takagi
P3-8 ID-83	<i>Fractal patterns in polyethylene/polyethylene oxide plasma polymers</i> <u>Andrei Choukourov</u> , Pavel Pleskunov, Daniil Nikitin, Renata Tafiichuk, Artem Shelemin, Jan Hanuš, Juraj Májek, Miriam Unger, Anirban Roy, Artem Ryabov
P3-9 ID-112	<i>DC atmospheric pressure plasma for the synthesis of gold nanoparticle/ carbon nanotube hybrids for photothermal conversion</i> <u>Daye Sun</u>
P3-10 ID-126	<i>Self-supporting nanofilms by plasma assisted technology</i> <u>ELOISA SARDELLA</u> , DOMENICO ACETO, ROBERTO GRISTINA, Fabio Palumbo, Francesco Fracassi, Pietro Favia

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P3-11 ID-177	<i>Plasma polymer / metal composites: role of the structure and the nature of the polymer matrix on the distribution of metal nanoparticles</i> <u>Dominique Debarnot</u> , Agapy Mansour, Fabienne Poncin-Epaillard
P3-12 ID-195	<i>Continuous Synthesis of Carbon Nanoparticles using Ar+CH₄ Multi-bollow Discharge Plasma CVD</i> <u>Sung Hwa Hwang</u> , Kunihiro Kamataki, Naho Itagaki, Kazunori Koga, Masaharu Shiratani
P3-13 ID-211	<i>In-situ monitoring of nanoparticle formation in cluster source by UV-Vis spectroscopy</i> <u>Daniil Nikitin</u> , Oleksandr Polonskyi, Jonas Drewes, Jan Hanus, Franz Faupel, Andrei Choukourov, Hynek Biederman
P3-14 ID-229	<i>Numerical Investigation on Nanoparticle Formation during Electrical Explosion of Wires</i> <u>Huantong Shi</u> , Jian Wu, Xingwen Li
P3-15 ID-232	<i>Synthesis of Aluminium Nitride Nano-powder using Induction Plasma Technology: Effect of Feedstock Molar Ratio and Reactor Pressure</i> <u>Faranak Barandehfard</u> , Kossi Eyadéma Béré, Francois Gitzhofer
P3-16 ID-243	<i>Plasma Electrolysis for Anodization by Atmospheric Pressure Plasma in Deionized Water</i> <u>Dong-Wook Kim</u> , Dong-Wha Park
P3-17 ID-248	<i>Relationship between properties of SiN_x film and cluster incorporation using SiH₄+N₂ multi hollow discharge plasma CVD</i> <u>Yusuke Sasaki</u> , Syouta Nagaishi, Kazuma Tanaka, Hisayuki Hara, Kunihiro Kamataki, Naho Itagaki, Kazunori Koga
P3-18 ID-249	<i>The effect of H₂ on the translation of graphene to amorphous carbon by DC arc discharge</i> <u>Feng Liang</u> , Da Zhang, Yongnian Dai
P3-19 ID-252	<i>Formation Mechanism of Carbon-Coated Amorphous Si Nanoparticles Synthesized by Induction Thermal Plasmas</i> <u>Ririko Hayashida</u> , Kentaro Yamano, Hirotaka Sone, Manabu Tanaka, Takayuki Watanabe
P3-20 ID-269	<i>Precisely wafer-temperature-controlled plasma etching and its application for nano-scale pattern fabrication of organic material</i> <u>Makoto Sekine</u> , Yusuke Fukunaga, Takayoshi Tsutsumi, Kenji Ishikawa, Hiroki Kondo, Masaru Hori
P3-21 ID-278	<i>Principal Component Analysis and Sparse Principal Component Analysis of Plasma CVD Process Data of a-Si:H Films</i> <u>Ryosuke Iwamoto</u> , Kunihiro Kamataki, Hisayuki Hara, Kazuma Tanaka, Daisuke Yamashita, Naho Itagaki, Daisuke Ikeda, Kazunori Koga, Shiratani Masaharu
P3-22 ID-287	<i>Heterogeneous nanoparticles for preparation of nanocomposites</i> <u>Hynek Biederman</u>

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P3-23 ID-297	<i>Synthesis of Lithium Oxide Composite with Refractory Metal by Induction Thermal Plasmas</i> <u>Tadashi Nonaka</u> , Shuhei Yoshida, Kentaro Yamano, Ririko Hayashida, Manabu Tanaka, Takayuki Watanabe
P3-24 ID-357	<i>Relationship between properties of SiN_x films and cluster incorporation studied using SiH₄+N₂ multi hollow discharge plasma CVD</i> <u>Yusuke Sasaki</u> , Syouta Nagaishi, Kazuma Tanaka, Hisayuki Hara, Kunihiro Kamata, Naho Itagaki, Kazunori Koga, Masaharu Shiratani
P3-25 ID-359	<i>PdPt nanocatalyst synthesis via liquid medium sputtering</i> <u>Vanessa Orozco</u> , Janick Bigarre, Thomas Lecas, Pascal Brault, Amael Caillard
P3-26 ID-374	<i>Synthesis of graphene-based materials using plasma technology at atmospheric pressure</i> <u>Ana Casanova</u> , Rocío Rincón, Jose Muñoz, Alicia Gomis-Berenguer, Conchi O. Ania, M. Dolores Calzada
P3-27 ID-376	<i>Directed deposition of Si nanocrystals from an atmospheric pressure plasma stylus</i> <u>Rebecca Anthony</u> , Alexander Ho
P3-28 ID-382	<i>Particle Decharging and Agglomeration in Pulsed, Particle Dense Dusty RF Plasmas</i> <u>Toshisato Ono</u> , Zhili Zuo, Changgong Wang, Song-Moon Suh, Christopher Hogan, Uwe Kortshagen
P3-29 ID-396	<i>Fabrication of slanted Si pillars for Antireflective surfaces using plasma etching</i> <u>Jun-Hyun Kim</u> , Jin-Su Park, Chang-Koo Kim
P3-30 ID-397	<i>Plasma etching of SiO₂ using hexafluoroisopropanol</i> <u>Jin-Su Park</u> , Jun-Hyun Kim, Chang-Koo Kim
P3-31 ID-411	<i>Plasma generation of ultradispersed carbon nanoparticles in liquids</i> <u>Boris Mislavsky</u> , Roman Iliev, Nikita Belov, Eugene Gorelik, Michael Marin, Alexey Soloviev
P3-32 ID-446	<i>An analysis of a tilting coating technique affecting on thin film of Indium Tin Oxide nanoparticles characteristics</i> <u>Somchai Arubrungrusmi</u> , Narong Mungkung
P3-33 ID-447	<i>Fabrication of Self-Organized Nano Structures on Polymer Substrates by means of Linear Ion Beam Processes</i> <u>Seunghoon Lee</u> , Jun-Yeong Yang, Eunyeon Byeon, Sunghoon Jung, Do-Geun Kim
P3-34 ID-456	<i>Research Activities on Plasma Technology at Canadian Nuclear Laboratories</i> <u>German Cota</u> , Daniel Turgeon

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P3-35 ID-457	<i>Comparison of immobilization yield in plasma and laser assisted processing of silver nanoparticles on polyethyleneterephthalate</i> <u>Jakub Siegel</u> , Markéta Kaimlová, Pavla Šuláková, Tomáš Hubáček, Václav Švorčík
P3-36 ID-458	<i>Inhomogeneous growth of plasma polymer films</i> <u>Renate Förch</u> , Bernhard Menges, Benham Akhavan
P3-37 ID-461	<i>Simulative study of SiO₂ atomic layer etching by controlled passivation time in capacitively coupled plasma</i> <u>ZhongLing Dai</u> , Wan Dong, Yuan-Hong Song, You-Nian Wang
P3-38 ID-486	<i>Atmospheric pressure Ar / CF₄ plasma jet and surface modification on epoxy resin</i> <u>Jie Liu</u> , Dingge Yang, Lijun Wang, Bo Niu, Yashuang Zheng, Wenhui Li
P3-39 ID-490	<i>Role of helium in plasma etching of silicon nitride by fluorine and hydrogen contained mixture</i> <u>Yuri Barsukov</u> , Pavel Pankratiev, Andrey Vinogradov, Anton Kobelev, Alexander Smirnov
P3-40 ID-516	<i>Studies on bulk synthesis of tungsten-oxide nanomaterials by a novel plasma technique and their visible-light photocatalytic properties for degradation of dyes in wastewater</i> <u>Trinayan Sarmah</u> , Dulen Saikia, Divesh Narayan Srivastava, Mayur Kakati
P3-41 ID-544	<i>Amine Functionalization of Boron Nitride Nanotubes through Exposure to a Capacitively Coupled Radio-Frequency Plasma</i> <u>Robyn Iannitto</u> , Benoit Simard, Sylvain Coulombe
P3-42 ID-573	<i>Etching of silicon dioxide using a "remote" capacitively coupled plasma source</i> <u>Xifeng Wang</u> , Mark Kushner, Mingmei Wang, Aelan Mosden, Peter Biolsi
P3-43 ID-584	<i>Synthesis of Transition Metal Boride Nanoparticles by Induction Thermal Plasma</i> <u>Libei Liu</u> , Yuta Tanoue, Tadashi Nonaka, Manabu Tanaka, Takayuki Watanabe
P3-44 ID-597	<i>Atmospheric plasma directed assembly for mask-less patterning</i> <u>Panagiotis Dimitrakellis</u> , Vassilis Constantoudis, Athanasios Smyrnakis, George Kokkoris, Evangelos Gogolides
P3-45 ID-617	<i>Evolution of Laser-Induced Plasma during Radio-Frequency Plasma-Assisted Pulsed Laser Ablation of Titanium</i> <u>Elmira Pajootan</u> , Felipe Aristizabal, Sylvain Coulombe, Sasha Omanovic
P3-46 ID-627	<i>SPS Induction Plasma Synthesized ZrB₂ Coatings for the Al Industry</i> <u>Marie-Claude Fournier</u> , James Aluha, Faranak Barandehfard, Kossi Eyadema Béré, Pierre-Olivier Langlois, François Gitzhofer

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Topic 4: Plasma deposition of functional coatings and treatment of inorganic and organic materials (from ID-315 to ID-624)

P3-47 ID-319	<i>Role of Ions in Plasma Polymerization of Cyclopropylamine/ Argon Radio Frequency Capacitively Coupled Discharges</i> <u>Lenka Zajickova</u> , Miroslav Michlicek, Peter Papp, Marian Danko, Stefan Matejcek, Satoshi Hamaguchi
P3-48 ID-328	<i>Plasma modification of deep layers of polymer materials</i> <u>Dmitry Medvedev</u> , Maxim Deminsky, Boris Potapkin, Olga Grankina, Anton Skomorokhov, Sergey Korobtsev, Andrey Knizhnik
P3-49 ID-342	<i>Sputter deposition of nanotextured iron oxide thin films for photoelectrochemical water splitting</i> <u>Antonella Milella</u> , Piera Bosso, Gianni Barucca, Paolo Mengucci, Francesco Fracassi
P3-50 ID-347	<i>Surface processes of energetic metal ions on HiPIMS target materials</i> <u>Rahel Buschhaus</u> , Maik Budde, Achim von Keudell
P3-51 ID-350	<i>Amine Rich Plasma Polymerization using Inverter Plasmas for Orthopaedic Application</i> <u>Anjar Anggraini Harumningtyas</u> , Tomoko Ito, Satoshi Sugimoto, Joe Kodama, Takashi Kaito, Chieko Asamori, Miroslav Michlicek, David Necas, Lenka Zajickova, Satoshi Hamaguchi
P3-52 ID-362	<i>Chemical vapour deposition of octadecyltrichlorosilane on plasma activated surfaces of silicon atomic force microscopy probes</i> <u>Alexandra Besleaga</u> , Sabina Teodoroff-Onesim, Lucel Sirghi
P3-53 ID-365	<i>Atmospheric pressure gliding arc with side inlet applied to polypropylene treatment and deposition of thin plasma polymer layers</i> <u>Kateřina Polášková</u> , Petr Jelínek, Filip Jeník, Zdeňka Jeníková, Jiří Cerman, Vilma Buršíková, Petr Špatenka, Lenka Zajícková
P3-54 ID-373	<i>Influence of the substrate temperature on the layer properties made by an atmospheric plasma jet using different precursors</i> <u>Thomas Neubert</u> , Kristina Lachmann, Veysel Zeren, Friedrich Schlüter, Paolo Scopece, Alessandro Patelli, Michael Thomas
P3-55 ID-402	<i>Single-step deposition of surface chemical gradients with a corona jet at atmospheric pressure</i> <u>David Duday</u> , Malekzad Hediye, Galligani Tommaso, Barletta Federica, Gherardi Matteo, Colombo Vittorio
P3-56 ID-433	<i>Surface Modification of Additively Manufactured Parts Using an Atmospheric Pressure Plasma</i> <u>Matthew Burnette</u> , David Staack

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P3-57 ID-448	<i>Atmospheric pressure plasma deposited silicone-like barrier coatings for drug delivery devices</i> <u>Ergina Farsari</u> , Konstantina Giati, Theodora Argyropoulou, Vasiliki Eleftheria Vrakatseli, Panagiotis Ioannou, Eleftherios Amanatides, Dimitrios Mataras
P3-58 ID-460	<i>Precursor fragmentation dynamics in atmospheric pressure plasma polymerization of HMDSO in nitrogen plasma</i> <u>Siavash Asadollahi</u> , Jacopo Profili, Andranik Sarkissian, Masoud Farzaneh, Luc Stafford
P3-59 ID-462	<i>Effects of Heating and Discharge on Adhesive Strength Improvement of Polytetrafluoroethylene by Heat-assisted Atmospheric Pressure Glow Plasma</i> <u>Kunihito Tanaka</u> , Masaoki Takano, Kazuo Takahashi, Masuhiro Kogoma
P3-60 ID-464	<i>Radial Evolution of Modification Effect of He APPJ on LDPE Film</i> <u>Guoqiang Li</u> , Zhengshi Chang
P3-61 ID-510	<i>Polyaniline and polythiophene films with humidity-independent characteristics by atmospheric pressure plasma polymerization method</i> <u>Choon-Sang Park</u> , Do Yeob Kim, Eun Young Jung, Hyo Jun Jang, Dong Ha Kim, Gyu Tae Bae, Jeong Hyun Seo, Bhum Jae Shin, Hyung-Kun Lee, Heung-Sik Tae
P3-62 ID-512	<i>Preparation of superhydrophobic cotton fabrics based on fluorocarbon compounds by plasma methods</i> <u>Gheorghe DINESCU</u> , Veronica Satulu, Bogdana Mitu, Razvan Radulescu, Raluca Maria Aileni
P3-63 ID-552	<i>Development of plasma device for powder treatment/sterilization and spectroscopic measurement of reactive species</i> <u>Hiroki Takagi</u> , Yuma Suenaga, Yuriko Matsumura, Atsuo Iwasawa, Akitoshi Okino
P3-64 ID-554	<i>Electrical characterization of polypyrrole synthesized by plasma doped with copper oxide particles</i> <u>Elena Colin Orozco</u> , M. Guadalupe Olayo-González, J. Cuauhtémoc Palacios-González, Guillermo Cruz-Cruz, Ricardo Valdivia-Barrientos, Lidia M. Gómez-Jiménez, Maribel González-Torres, Fernando G. Flores-Nava, Rosario Ramírez-Segundo
P3-65 ID-563	<i>Investigation of non-thermal plasma treatment on vanadium oxide-based catalysts</i> <u>Moazameh Adhami Sayad Mahaleh</u> , Rim Bitar, Anton Nikiforov, Karen Leus, Pieter Cools, David Schaubroeck, Pascal Van Der Voort, Rino Morent, Nathalie De Geyter
P3-66 ID-567	<i>Fabrication of Transparent Self-Cleaning Super-Repellent Surfaces by Plasma Polymerization</i> <u>Aissam Airoudj</u> , Constance Thomas, Florence Bally-Le Gall, Vincent Roucoules
P3-67 ID-568	<i>Deposition of ZnO film by high power impulse magnetron sputtering (HiPIMS)</i> <u>Lizhen Yang</u> , Haitao Zhang, Qiang Chen, Haibao Zhang
P3-68 ID-580	<i>Properties of GaAs Surface Formed by In-situ Plasma Oxidation and its Effect on HfO₂/GaAs MOS Capacitor</i> <u>Hoonjung Oh</u> , Sungjoo Lee

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P3-69 ID-582	<i>Characterization of cellulose microfibril foams in contact with plasma discharges in an AP-DBD experimental setup</i> <u>Louis-Félix Meunier</u> , Jacopo Profili, Nicolas Naudé, Luc Stafford
P3-70 ID-583	<i>Synthesis of SiO_x thin films on glass substrate: a comparison between atmospheric and low-pressure plasma processes</i> <u>Maxime Beauchemin</u> , Jacopo Profili, Thomas Schmitt, Nicolas Naudé, Jolanta-Ewa Klemberg-Sapieha, Ludvik Martinu, Luc Stafford
P3-71 ID-606	<i>Rationally designed surface nanopopography and plasma-generated surface chemistry for fabricating 2D orthogonal surface gradients</i> <u>Hediyeh Malekzad</u>
P3-72 ID-624	<i>Mo-based coating with anti-wetting properties for high temperature applications: Synthesis by plasma technology</i> <u>James Aluha</u> , Marie-Claude Fournier, Faranak Barandehfard, Pierre-Olivier Langlois, Kossi Béré, Nicolas Abatzoglou, François Gitzhofer
Topic 5: Thermal plasma fundamentals and applications	
P3-73 ID-6	<i>Unbound (resonance and scattering) states in high temperature thermodynamics.</i> <u>Marcin Buchowiecki</u>
P3-74 ID-23	<i>Atmospheric pressure radio frequency hydrogen induction thermal plasma diagnostics by optical emission spectroscopy</i> <u>Haibao Zhang</u> , Liuyang Bai, Peng Hu, Lizhen Yang, Qiang Chen, Fangli Yuan
P3-75 ID-52	<i>Computational Investigation of Regimes of the Arc in Crossflow</i> <u>Juan Pablo Trelles</u> , Vyasraj Gururaj Bhigamudre
P3-76 ID-55	<i>Heating of a cathode with a conical tip by atmospheric-pressure arc</i> <u>Tang Chen</u> , Wei-zong Wang
P3-77 ID-57	<i>Pure Silicon Nanoparticle Synthesis using Tandem Type of Induction Thermal Plasmas with Simultaneous Controlled Modulation of Upper- and Lower-Coil Current</i> <u>Kazuki Onda</u> , Kotaro Shimizu, Keita Akashi, Yasunori Tanaka, Yoshihiko Uesugi, Tatsuo Ishijima, Shiori Sueyasu, Shu Watanabe, Keitaro Nakamura
P3-78 ID-64	<i>Arc behavior in a divergent channel with inter-electric inserter and anode</i> <u>Xian Meng</u>
P3-79 ID-65	<i>Gasdynamic dispersing of nitrogen arc in thermal plasma generator</i> <u>Xian Meng</u> , Wenxia Pan

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P3-80 ID-91	<i>Three-Dimensional Transient Modelling of a Well Type Cathode Torch with the Reversed Polarity Discharge</i> <u>Elham Dalir</u> , Larry Pershin, Javad Mostaghimi, Michael Hou, Qinglin Zhang
P3-81 ID-162	<i>Simulation of the radiative spectra for Ar-H₂O-Hg mixtures in high pressure lamps: influence of the presence of H₂O</i> <u>Yann Cressault</u>
P3-82 ID-172	<i>Three dimensional nonequilibrium numerical simulation of anode region of high intensity transferred arc</i> <u>Tao Zhu</u> , Hai-Xing Wang, Su-Rong Sun
P3-83 ID-202	<i>Investigation of physical contact between liquid droplet and rotating arc</i> <u>Hongjae Kang</u> , Kwan-Tae Kim, Sungkwon Jo, Dae Hoon Lee
P3-84 ID-205	<i>Modelling of arc attachment at the anode of high intensity transferred arcs</i> <u>Surong Sun</u> , Tao Zhu, Haixing Wang
P3-85 ID-253	<i>Discharge Characteristics of Water Plasma with Mist Generation</i> <u>Hiroki Munekata</u> , Manabu Tanaka, Takayuki Watanabe
P3-86 ID-255	<i>High-Speed Visualization of Temperature Fluctuation in Multiphase AC Arc</i> <u>Hiroki Maruyama</u> , Manabu Tanaka, Takayuki Watanabe, Hisao Nagai, Takeshi Koiwasaki, Takafumi Okuma
P3-87 ID-267	<i>Non-equilibrium transport processes in a free-burning argon arc plasma under different operating pressures</i> <u>Heping Li</u> , Chuan Fang, Jian Chen, Heng Guo, Jing Li
P3-88 ID-341	<i>Visualization of Electrode Phenomena in Nitrogen DC Arc</i> <u>Takayuki Watanabe</u> , Masaki Yoshida, Naoki Sakura, Manabu Tanaka
P3-89 ID-372	<i>Axial Fed Micro Plasma Spraying in Additive Manufacturing</i> <u>Paul Hayden</u>
P3-90 ID-405	<i>Contributing Factors to the Long Persistence of the Lightning Channel Plasma</i> <u>Caitano da Silva</u> , Sophia Salazar, Richard Sonnenfeld, Harald Edens
P3-91 ID-517	<i>Powder spheroidisation for the Advanced Metals Initiative of South Africa using high temperature plasma technology</i> <u>Hertzog Bissett</u> , Milton Makhofane

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P3-92 ID-522	<i>Numerical simulation of multiple gas mixtures in thermal plasma using OpenFOAM</i> <u>Hunkwan Park</u> , Yeon Woo Yoo, Eungsun Byon, Sunghun Lee
P3-93 ID-527	<i>Synthesis of Si-MWCNT nanocomposite using triple DC thermal plasma jet system</i> <u>Seung-Hyun Hong</u> , Byeong-Il Min, Tae-Hee Kim, Sooseok Choi
P3-94 ID-528	<i>Anode current density measurement of a non-transferred DC arc plasma generator</i> <u>Xian Meng</u> , Wenxia Pan, Xian Zhou, Heji Huang
P3-95 ID-535	<i>Synthesis of cobalt boride nanoparticle in triple DC thermal plasma jet system</i> <u>Jeong-Hwan Oh</u> , Minseok Kim, Yong Hee Lee, Seung-Hyun Hong, Tae-Hee Kim, Sooseok Choi
P3-96 ID-536	<i>Synthesis of Few-walled Boron Nitride Nanotubes using Triple DC Thermal Plasma Jet System with Hydrogen Injection</i> <u>Minseok Kim</u> , Jeong-Hwan Oh, Byeong-Il Min, Yong Hee Lee, Seung-Hyun Hong, Tae-Hee Kim, Sooseok Choi
P3-97 ID-589	<i>Steam plasma gasification of polyvinyl chloride</i> <u>Vladimir Frolov</u> , Nikita Obraztsov, Dmitry Subbotin, Dmitriy Ivanov, Viktor Popov
P3-98 ID-609	<i>Methane pyrolysis using water-stabilized hybrid plasma torch</i> <u>Anton Serov</u> , Alan Maslani, Michal Hlina, Milan Hrabovsky
P3-99 ID-626	<i>3D modelling of a DC transferred arc twin torch plasma system for the synthesis of copper nanoparticles</i> <u>Vittorio Colombo</u> , Marco Boselli, Matteo Gherardi
Topic 7: Plasma medicine and plasma agriculture (from ID-435 to ID-621)	
P3-100 ID-435	<i>Generation and transport of cold plasma in metres-long tubing for plasma medicine application in endoscopy</i> <u>Max Thulliez</u> , Orianne Bastin, Delphine Merche, Alp Ozkan, Antoine Nonclerq, Alain Delchambre, Jacques Devière, François Reniers
P3-101 ID-436	<i>Effects of plasma activated water on wheat and lettuce: Germination, growth parameters, photosynthetic pigments, soluble protein content and antioxidant enzymes activity</i> <u>Karol Hensel</u>
P3-102 ID-441	<i>Plasma wet and dry approaches for agriculture: limitations, challenges and opportunities</i> <u>DUFOUR Thierry</u> , JUDEE Florian

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P3-103 ID-463	<i>Plasma-generated short-lived reactive oxygen and nitrogen species are the main inducers of immunogenic cancer cell death</i> <u>Yury Gorbanev</u> , Abraham Lin, Joey De Backer, Sylvia Dewilde, Evelien Smits, Annemie Bogaerts
P3-104 ID-470	<i>Fluorescein-agarose gel as a tissue model to visualize and measure local CAP-induced acidification</i> <u>Giovanni Busco</u> , Azadeh Valinataj Omran, Loick Ridou, Jean-Michel Pouvesle, Eric Robert, Catherine Grillon
P3-105 ID-474	<i>Atmospheric Oxygen Plasma Trigger to Activation of Macrophage-like Cells</i> <u>Yi Ci Yao</u> , Nobuya Hayashi
P3-106 ID-476	<i>Adjusting optical and structural properties of gold nanoparticles produced using direct current atmospheric pressure glow discharge operated in contact with a flowing liquid cathode under helium atmosphere</i> <u>Piotr Jamroz</u> , Anna Dzimitrowicz, Pawel Pohl
P3-107 ID-489	<i>Non-thermal plasma inhibits mast cell activation and ameliorates allergic skin inflammatory diseases in NC/Nga mice.</i> <u>Yun Sang Lee</u> , Myung-Hoon Lee, Haeng Jun Kim, Chang Hak Han, Sung Un Kang, Chul-Ho Kim
P3-108 ID-496	<i>Fluoride application of cold atmospheric plasma on deciduous tooth enamel</i> <u>Young Min Kim</u> , Yeon Suk Song, Se Eun Yun, Kwang Ha Park, Jun Ho Bae, Gyoo Cheon Kim
P3-109 ID-499	<i>Plasma activated radix arnebiae oil as innovative antimicrobial and burn wound healing agent</i> <u>Dawei Liu</u> , Shuhui Pan
P3-110 ID-503	<i>Effect of plasma treatment in growth and chemical contents</i> <u>Mi Ja Lee</u> , Jong Seok Song, Hyun Young Kim, Sang heum Eom, Ji Eun Ra, Hyun Mi Ham, Woo Duck Seo, Ki Chang Jang
P3-111 ID-506	<i>Generation of reactive nitrogen radicals in air plasma and their stability in liquid</i> <u>Kangil Kim</u> , Suk Hwal Ma, Yong Cheol Hong
P3-112 ID-509	<i>Effect of Plasma Direct Irradiation on Oral Cancer Cells Using Torch Type Dielectric Barrier Discharge Plasma</i> <u>Mao Marume</u> , Yukie Miyamaru, Nobuya Hayashi, Reona Aijima, Yoshio Yamashita
P3-113 ID-514	<i>Challenges in the enhancement of seed germination by non-thermal plasmas</i> <u>Ricardo Valdivia-Barrientos</u> , Marquidia Pacheco, Joel Pacheco, Angel Endara, Francisco Martínez, Hilda Frías, Fidel Ramos, Miguel Durán, Miguel Hidalgo
P3-114 ID-515	<i>Gene expression analysis of Arabidopsis thaliana irradiated with oxygen plasma</i> <u>Kyotaro Yamamoto</u> , Nobuya Hayashi, Kosuke Tashiro

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P3-116 ID-541	<i>Plasma treatment of pesticide-contaminated water: assessment of toxicity and possible use in irrigation</i> <u>Florin Bilea</u> , Corina Bradu, Monica Magureanu
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