

# ISPC 24

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

## 3 MIN POSTER PITCHES – SESSION 1

June 10, 2019

### ROOM GALATEA

Chair: Romolo Laurita

<b>P1-24 ID-228</b>	<i>Monte Carlo Flux simulations of electrons for plasma modelling</i> <u>Luca Vialetto</u> , Savino Longo, Paola Diomede
<b>P1-36 ID-320</b>	<i>Characterization of a kHz atmospheric pressure plasma jet: measurements of the electric field, electron properties and other plasma parameters</i> <u>Marlous Hofmans</u> , Ana Sobota, Olivier Guaitella
<b>P1-41 ID-82</b>	<i>Kinetic modeling and uncertainty analysis of hybrid repetitive nanosecond and DC discharge enhanced low temperature H<sub>2</sub>/O<sub>2</sub>/He ignition</i> <u>Xingqian Mao</u> , Qi Chen, Aric Rouso, Timothy Chen, Yiguang Ju
<b>P1-49 ID-281</b>	<i>Iodine as propellant for electric propulsion: updated global model and comparison to experiments</i> <u>Florian Marmuse</u> , Romain Lucken, Cyril Drag, Jean-Paul Booth, Anne Bourdon, Nicolas Sisourat, Ane Aanesland, Pascal Chabert
<b>P1-59 ID-493</b>	<i>The use of a pulsed-corona plasma for tar-cracking at high temperatures: first insights</i> <u>Yamid Gomez Rueda</u> , Lieve Helsen
<b>P1-96 ID-123</b>	<i>Inertization of arsenic in the resin by microwave plasma</i> <u>Raynard Sanito</u>
<b>P1-103 ID-483</b>	<i>NO<sub>x</sub> production using pulsed atmospheric plasma discharge: Identification and diagnostics</i> <u>Yiwei Jiang</u> , Anton Nikiforov, Mikhail Gromov, Nathalie De Geyter, Rino Morent
<b>P1-113 ID-592</b>	<i>Discharge formation inside the honeycomb structures assisted by surface barrier discharge</i> <u>Richard Cimerman</u> , Emanuel Mat'áš, Karol Hensel
<b>P2-1 ID-322</b>	<i>Time-evolution of the CO<sub>2</sub> conversion studied by in situ FTIR absorption and isotopic exchange</i> <u>Ana Sofia Morillo-Candas</u> , Bart.L.M. Klarenaar, Tiago Silva, Richard Engeln, Vasco Guerra, Olivier Guaitella
<b>P2-9 ID-413</b>	<i>Ion chemistry in N<sub>2</sub>-H<sub>2</sub> and N<sub>2</sub>-CH<sub>4</sub> plasmas representative of Titan's ionosphere</i> <u>Audrey Chatain</u> , Olivier Guaitella, Nathalie Carrasco, Lora Jovanovic
<b>P2-27 ID-562</b>	<i>Automatic Assembling of Kinetic Reaction Schemes for Plasma Modelling Applications</i> <u>Martin Hanicinec</u> , Sebastian Mohr, Jonathan Tennyson

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<b>P2-47 ID-215</b>	<i>Non-equilibrium atmospheric pressure discharge, sustained by focused CW gyrotron radiation with a frequency of 24 GHz</i> <u>Sergey Sintsov</u> , Alexander Vodopyanov, Dmitry Mansfeld, Mikhail Viktorov
<b>P2-50 ID-309</b>	<i>Characterization of helium plasma jet at atmospheric pressure touching water, metal and dielectric surface</i> <u>Julien Cosimi</u> , Frédéric Marchal, Nofel Marbahi
<b>P2-56 ID-481</b>	<i>Preliminary Characterisation of Carbon Dioxide and Steam Microwave Plasma Torch for Gasification Applications</i> <u>Simon Vecten</u> , Amos Dexter, Alastair Martin, Nuno Bimbo, Richard Dawson, Michael Wilkinson, Ben Herbert

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## 3 MIN POSTER PITCHES – SESSION 2

June 11, 2019

### ROOM GALATEA

Chair: Romolo Laurita

<b>P2-70 ID-635</b>	<i>A multi-jet Plasma Gun equipped with branching device for the treatment of liquids</i> <u>Alina Bisag</u> , Eric Robert, Romolo Laurita, Matteo Gherardi, Jean-Michel Pouvesle, Vittorio Colombo.
<b>P2-72 ID-31</b>	<i>Subsurface ferroelectric water provokes a controlled protein adsorption</i> <u>Ezgi Bulbul</u> , Dirk Hegemann
<b>P2-100 ID-189</b>	<i>Selective Destruction toward A-375 Human Melanoma Cells by Atmospheric Pressure Plasma Jet Treatments</i> <u>Saitong Muneekaew</u> , Meng-Jiy Wang
<b>P2-110 ID-317</b>	<i>Drug introduction into cells using direct exposure of gas-liquid interfacial plasmas</i> <u>Ryosuke Honda</u> , Shota Sasaki, Keisuke Takashima, Makoto Kanzaki, Takehiko Sato, Toshiro Kaneko
<b>P2-122 ID-188</b>	<i>Atmospheric Pressure Argon Plasma Jet Assisted Copolymerization of Sulfobetaine Methacrylate and Acrylic Acid for Anti-fouling Application</i> <u>Yueh-Han Huang</u> , Meng-Jiy Wang
<b>P3-13 ID-211</b>	<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
<b>P3-19 ID-252</b>	<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
<b>P3-23 ID-297</b>	<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

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<b>P3-26</b> <b>ID-374</b>	<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
<b>P3-43</b> <b>ID-584</b>	<i>Synthesis of Transition Metal Boride Nanoparticles by Induction Thermal Plasma</i> <u>Libei Liu</u> , Yuta Tanoue, Tadashi Nonaka, Manabu Tanaka, Takayuki Watanabe
<b>P3-53</b> <b>ID-365</b>	<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 Zajíčková
<b>P3-77</b> <b>ID-57</b>	<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
<b>P3-82</b> <b>ID-172</b>	<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
<b>P3-100</b> <b>ID-435</b>	<i>Generation and transport of cold plasma in metres-long tubing for plasma medicine application in endoscopy</i> <u>Max Thulliez</u> , Oriane Bastin, Delphine Merche, Alp Ozkan, Antoine Nonclercq, Alain Delchambre, Jacques Devière, François Reniers