

ISPC 24

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

POSTER SESSION 1: June 10, 2019

Topic 1: Fundamentals, diagnostics and modelling in plasma chemistry (From ID-19 to ID-320)

P1-1 ID-7	<i>Characterization of a Large Volume Reduced Pressure Plasma Ignited by a Guided Ionization Wave</i> <u>Mounir Laroussi</u> , Gandhari Bhandari
P1-2 ID-19	<i>The on-going development of a CFD model to better understand the plasma arc discharge in a waste-water treatment application</i> <u>Avinash Maharaj</u> , Samuel Iwarere, Deresh Ramjugernath
P1-3 ID-21	<i>Correlations between Gas Flow and Film Growth in Plasma Polymerization Processes</i> <u>Sandra Gaiser</u>
P1-4 ID-38	<i>Investigation of the negative space charge layer by particle-in-cell simulation</i> <u>Lijun Wang</u> , Dan Wang, Jie Liu, Rui Wang, Chao Yan
P1-5 ID-47	<i>Densities of N and H atoms in R/x%(N₂-5%H₂) (R = Ar or He) microwave flowing afterglows</i> <u>SARRETTE Jean Philippe</u> , <u>RICARD André</u>
P1-6 ID-50	<i>Analysis of Low Pressure Diglyme Plasmas by Langmuir Probe Measurements and Optical Emission Spectroscopy</i> <u>Rogério Pinto Mota</u> , Pedro William Paiva Moreira Júnior, Roberto Yzumi Honda
P1-7 ID-76	<i>Learning-based Feedback Control for Dose Delivery with Atmospheric Pressure Plasma Jets Under Uncertainty</i> <u>Angelo Bonzanini</u> , Dogan Gidon, David Graves, Ali Mesbah
P1-8 ID-77	<i>Finite-element simulation of process gas dissociation and plasma production in inductively coupled plasma for dry etching applications</i> <u>Ivan Ganachev</u> , Makoto Moriyama, Keiji Nakamura
P1-9 ID-85	<i>Compressibility of nonideal plasma of deuterium and helium under extreme pressures up to 20000 GPa</i> <u>Mikhail Mochalov</u>
P1-10 ID-99	<i>Measurements of OH in atmospheric pressure argon microwave plasmas</i> <u>Jayr de Amorim</u> , Marco Ridenti
P1-11 ID-106	<i>He(23S) and He₂(a³Σ^{u+}) metastable densities, measured by broadband absorption technique, in atmospheric pressure helium rf discharge</i> <u>Gaurav Nayak</u> , Nader Sadeghi, Peter Bruggeman

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P1-12 ID-108	<i>Molecular emissions in sonoluminescence spectra of water sonicated under Ar-based gas mixtures</i> <u>Rachel Pflieger</u> , Eva Fayard, Thierry Belmonte, Cédric Noel, Sergey I. Nikitenko
P1-13 ID-110	<i>Comparison of Two-Dimensional Electron Density Distribution between Positive Primary and Secondary Streamer Discharge in Atmospheric-Pressure Air</i> <u>Yuki Inada</u> , Atsushi Komuro, Ryo Ono, Akiko Kumada, Kunihiko Hidaka, Mitsuaki Maeyama
P1-14 ID-119	<i>Light emission of Dielectric Barrier Surface Discharge in Air formed by High Voltage of Different Form</i> <u>Marina Sokolova</u> , Kirill Kozlov, Vadim Voevodin, Yury Malakhov
P1-15 ID-122	<i>Plasma chemistry of SiH₄/N₂/O₂ and SiH₄/N₂O/Ar mixtures for deposition of silicon based film in RF-CCPs</i> <u>Yuan-Hong Song</u> , Wen-Zhu Jia, You-Nian Wang
P1-16 ID-128	<i>Optical diagnostics of a pulsed microwave discharge for better plasma-based CO₂ conversion</i> <u>Rony Snyders</u> , Nikolay Britun, Thomas Godfroid
P1-17 ID-165	<i>Plasma temperature diagnostic methods of large size RF APPJ for biomedical application</i> <u>Ivana Sremački</u>
P1-18 ID-166	<i>Genetic algorithm-based investigations on the key chemical reaction pathways in a helium-air cold atmospheric plasma jet</i> <u>Heping Li</u> , Jing Li, Yi-Cun Liu, Jian Chen
P1-19 ID-181	<i>Atmospheric-pressure large-area DBDs in Ar-HMDSO: experiments and 1D fluid modelling</i> <u>Jan Schäfer</u> , Claus-Peter Klages, Markus M. Becker, Dirk Hegemann, Bernard Nisol, Sean Watson, Michael R. Wertheimer, Detlef Loffhagen
P1-20 ID-190	<i>Predictive capability of dc microplasma modeling in atmospheric pressure argon</i> <u>Margarita Baeva</u> , Detlef Loffhagen, Markus M. Becker, Dirk Uhrlandt
P1-21 ID-193	<i>Comparative analysis on the bactericidal components formation of air plasma jets driven by DC glow discharge and dielectric-barrier discharge</i> <u>Aliaksandra Kazak</u> , Andrey Kirillov, Leanid Simonchik, Olga Stepanova, Alexander Astafiev, Mikhail Pinchuk
P1-22 ID-194	<i>Ethanol decomposition routes by an atmospheric pressure microwave plasma torch: towards the eco-friendly production of hydrogen</i> <u>Rocío Rincón Liévana</u> , José Muñoz Espadero, María Dolores Calzada Canalejo
P1-23 ID-200	<i>Absolute H density in an RF driven Ar + H₂O atmospheric pressure plasma jet by two photon absorption laser induced fluorescence</i> <u>Vighneswara Siva Santosh Kumar Kondeti</u> , Peter J. Bruggeman
P1-24 ID-228	<i>Monte Carlo Flux simulations of electrons for plasma modelling</i> <u>Luca Vialetto</u> , Savino Longo, Paola Diomede

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P1-25 ID-234	<i>The effect of temperature on electron recombination with water and hydrocarbon ions in high-voltage nanosecond discharge afterglow</i> <u>Andrey Starikovskiy</u> , Mikhail Popov, Igor Kochetov, Nikolay Aleksandrov
P1-26 ID-256	<i>Molecular Dynamics Simulation: Nanometer-scale Hole Etching of SiO₂ with Carbon Mask</i> <u>Charisse Marie Cagomoc</u> , Michiro Isobe, Satoshi Hamaguchi
P1-27 ID-273	<i>Charge and temperature fluctuation of carbon nanoparticles in a DC dusty plasma</i> <u>armelle michau</u> , prasanna swaminathan, khaled hassouni, savino longo
P1-28 ID-274	<i>Effects of Pressure and Gas Mixture Composition on the Plasma Chemistry of N₂/NH₃/SiH₄ Inductively Coupled Plasma</i> <u>Kwon-Sang Seo</u> , Ju-Hong Cha, Ho-Jun Lee
P1-29 ID-286	<i>Reaction of excited S₂ (a 1 Δg) with H₂S</i> <u>Maxim Demnsky</u> , Alexander Granovsky, Alexander Lebedev, Elena Petrunina, Boris Potapkin
P1-30 ID-288	<i>Energy balance in sulfur contained, radiative MW discharge</i> <u>Maxim Demnsky</u> , Alexander Lebedev, Andrei Petrusev, Ekaterina Petrunina, Vitalii Rerich, Andrei Stepanov, Boris Potapkin
P1-31 ID-292	<i>Measurements of argon metastable in capillary microwave plasmas using TDLAS</i> <u>Fabien Coquery</u> , Elijah Jans, Olivier Leroy, Tiberiu Minea, Gabi Stancu
P1-32 ID-298	<i>Vibrational excitement: from CO₂ to CO</i> <u>Qin Ong</u> , Dirk van den Bekerom, Giel Berden, Richard van de Sanden, Gerard van Rooij
P1-33 ID-300	<i>Kinetics of active species in a DC discharge by synchrotron VUV absorption</i> <u>Jean-Paul Booth</u> , Abhyuday Chatterjee, Olivier Guaitella, Santos Sousa Joao, Nelson de Oliveira, Laurent Nahon, Dmitry Lopaev, Sergey Zyryanov, Tatyana Rakhimova
P1-34 ID-313	<i>Influence of carbon monoxide on CO₂ plasma</i> <u>Polina Ogloblina</u> , Vasco Guerra, Ana Sofia Morillo Candas, Olivier Guaitella
P1-35 ID-318	<i>Chemiluminescence as a diagnostic tool in CO₂ microwave plasma</i> <u>Floran Peeters</u> , Huub Hendrickx, Alex van de Steeg, Tim Righart, Bram Wolf, Gerard van Rooij, Waldo Bongers, Richard van de Sanden
P1-36 ID-320	<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

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Topic 6: Plasma-assisted conversion, combustion, propulsion and aerodynamics

P1-37 ID-20	<i>Catalytic reactor configuration for coupling of methane assisted by DBD plasma</i> <u>Nuria Garcia Moncada</u> , Leon Lefferts, Toine Cents
P1-38 ID-26	<i>Bi-reforming with a ratio of CH₄/CO₂/H₂O = 3/1/2 by plasma catalysis for power to fuels</i> <u>Jing-Lin Liu</u> , Ai-Min Zhu
P1-39 ID-37	<i>Directional Microplasma Thrusters Using Hollow-Core Optical Fiber Array</i> <u>Sungo Kim</u>
P1-40 ID-71	<i>Optical diagnostics and numerical modeling of nanosecond capillary pulsed discharge in CO₂</i> <u>GEORGY Pokrovskiy</u>
P1-41 ID-82	<i>Kinetic modeling and uncertainty analysis of hybrid repetitive nanosecond and DC discharge enhanced low temperature H₂/O₂/He ignition</i> <u>Xingqian Mao</u> , Qi Chen, Aric Rousso, Timothy Chen, Yiguang Ju
P1-42 ID-135	<i>Dry reforming of methane using a rotating gliding arc reactor</i> <u>Jennifer Martin del Campo</u> , Sylvain Coulombe, Jan Kopyscinski
P1-43 ID-148	<i>CO₂ activation by Cu/γ-Al₂O₃ promoted DBD plasma</i> <u>DEBJYOTI RAY</u> , Subrahmanyam Ch.
P1-44 ID-209	<i>Evaluation of temperature and concentrations of chemically active particles in the area activated by a high-frequency corona discharge in the HCCI engine</i> <u>Elena Filimonova</u> , Anastasia Dobrovolskaya, George Naidis
P1-45 ID-212	<i>Investigation of an atmospheric 2.45 GHz microwave pressure CO₂ plasma source: comparison of pulsed and CW operation</i> <u>Federico Antonio D'Isa</u> , Emile Carbone, Ante Hecimovic, Ursel Fantz

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P1-46 ID-225	<i>Synthesis of chemical compounds in the gaseous mixture related to Titan atmosphere by glow discharge at the relevant temperature and pressure</i> <u>Frantisek Krcma</u> , Stanislav Chudjak, Adam Cervenka
P1-47 ID-235	<i>NO_x production from N₂ by means of a 3D gliding arc plasmatron</i> <u>Maryam Aghaei</u> , Neda Hafezkhiani, Elise Vervloessem, Fatme Jardali, Annemie Bogaerts
P1-48 ID-262	<i>Hydrogen production with Plasma-Steam Methane Reforming combined Technology for an automobile H-Station</i> <u>Taihyeop LHO</u> , Dae Hyun Choi, Changhyun Cho, Hyunjae Park, Jihun Kim
P1-49 ID-281	<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
P1-50 ID-282	<i>Analysis of homogenous nanosecond discharge at moderate pressure: dissociation of oxygen for plasma assisted detonation</i> <u>mhedine Ali cherif</u> , Svetlana Starikovskaia
P1-51 ID-306	<i>Fuel consumption reduction achievement by using the dielectric barrier discharge (DBD) plasma on Bunsen burner</i> <u>Babak Shokri</u> , Mohammad Salehi, Atieh Khosravi, Morteza Akhlaghi, Navid Vafaei, MohammadReza Khani
P1-52 ID-335	<i>Plasma-catalysis for the conversion of greenhouse gases into value-added fuels and chemicals at ambient conditions</i> <u>Danhua Mei</u> , Yong Yang, Zhenxun Ma, Shiyun Liu, Xin Tu, Zhi Fang
P1-53 ID-352	<i>Plasma-assisted CO₂ splitting in an atmospheric dielectric barrier discharge reactor: Effect of the reactor configuration</i> <u>Zhi Fang</u> , Danhua Mei, Yong Yang, Shiyun Liu, Xin Tu
P1-54 ID-363	<i>Plasma aided Nitric oxide synthesis: electrocatalysis vs catalysis</i> <u>Rakesh Kumar Sharma</u> , H.C. Patel, V. Kyriakou, A. Pandiyan, S. Welzel, M.C.M. van de Sanden, M.N. Tsampas

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P1-55 ID-379	<i>Experimental research and simulation of the process of interaction between a barrier discharge and natural gas</i> <u>Viktor Malanichev</u> , Vladislav Khomich, Maxim Malashin
P1-56 ID-394	<i>Fundamentals of gas conversion in pulsed DBD plasma.</i> <u>Maxim Malashin</u>
P1-57 ID-484	<i>Pyrolysis-plasma reforming of waste plastics for hydrogen-rich syngas production</i> <u>Idris Aminu</u> , Mohamad Anas Nahil, Paul T. Williams
P1-58 ID-488	<i>Investigation of flame propagation enhancement by a ultrashort nanosecond discharge pulse using the Rayleigh scattering thermometry</i> <u>Chengdong Kong</u> , Yupan Bao, Tomas Hurtig, Marcus Aldén, Andreas Ehn
P1-59 ID-493	<i>The use of a pulsed-corona plasma for tar-cracking at high temperatures: first insights</i> <u>Yamid Gomez Rueda</u> , Lieve Helsen
P1-60 ID-502	<i>Development of novel swirl flow induced rotating arc discharge reactor for CO₂ conversion</i> <u>Bharathi Raja</u> , Ramanujam Sarathi, Ravikrishnan Vinu
P1-61 ID-521	<i>Kinetic roles of vibrational excitation in non-equilibrium plasma assisted NH₃ synthesis</i> <u>Jintao Sun</u> , Qi Chen, Shuo Zheng
P1-62 ID-561	<i>Plasma-enhanced ammonia synthesis: from plasma-phase ammonia synthesis towards plasma-enhanced catalytic ammonia synthesis</i> <u>Kevin Rouwenhorst</u> , Hyun-Ha Kim, Leon Lefferts
P1-63 ID-571	<i>Plasma-catalytic removal of oxygen traces in steel mill gases with a packed-bed DBD reactor</i> <u>Tim Nitsche</u>

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P1-64 ID-590	<i>Flame stabilisation by nanosecond repetitively pulsed discharges. Part 1: temperature measurements</i> <u>Sergey Stepanyan</u> , Victorien Blanchard, Nicolas Minesi, Gabi-Daniel Stancu, Christophe Laux
P1-65 ID-595	<i>Spectroscopic analysis on a plasma assisted CH₄-air turbulent swirling flame</i> <u>Pablo Escot Bocanegra</u> , Maxime Wartel, Stéphane Pellerin, Toufik Boushaki, Hajar Zaidaoui, Sébastien Dozias
P1-66 ID-613	<i>A two-stage pyrolysis/plasma reactor for the dry reforming of biomass pyrolysis products to increase syngas yield.</i> <u>Aaron Carvell</u>
P1-67 ID-615	<i>Flame stabilisation by nanosecond repetitively pulsed discharges. Part II: Nitric oxides production</i> <u>Victorien Blanchard</u> , Nicolas Minesi, Sergey Stepanyan, Gabi-Daniel Stancu, Christophe Laux
P1-68 ID-620	<i>Atmospheric pressure plasma jet effects on a lean methane-air premixed laminar flame</i> <u>Pablo ESCOT BOCANEGRA</u> , Chaimae BARIKI, Fabien HALTER, Toufik BOUSHAKI, Sebastien DOZIAS, Nolann RAVINET, Jean-Michel POUVESLE, Eric ROBERT
Topic 9: Plasma in and in contact with liquids	
P1-69 ID-87	<i>Glycerin degradation by submerged plasma</i> <u>Alexei Essiptchouk</u> , Gilberto Petraconi, Felipe Miranda, Antonio Saraiva, Leonid Charakhovski
P1-70 ID-133	<i>Electrode erosion and possible effect on methylene blue degradation in a nanosecond pin-to-liquid discharge system</i> <u>Elena Corella Puertas</u> , Benjamin Münch, Adna Dzafic, Sylvain Coulombe
P1-71 ID-138	<i>Chemical and Physical Characterization of Nano-second Pulsed Electrical Discharges Propagating along a Gas-Liquid Water Interface</i> <u>Bruce R. Locke</u> , Robert J. Wandell, Stefan Bresch, Milan Simek, Vaclav Babicky, Petr Lukes, Radha Krishna Bulusu Raja, Huihui Wang

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P1-72 ID-155	<i>Plasma Discharges Above and Below Water Surface Used for Bacterial Inactivation and Antibiotic Degradation in Drinking Water</i> <u>Mohamed El Shaer</u> , Mohamed ElDaly, Ghada Heikal, Yasmine Sharaf, Heba Diab, Bo Liu, Mona Mobasher, Antoine Rousseau
P1-73 ID-179	<i>Is a submerged microwave plasma jet efficient for water treatment?</i> <u>Ahmad Hamdan</u> , Jacopo Profili, MinSuk Cha
P1-74 ID-219	<i>Point-to-plane liquid phase plasma discharge with copper electrode for Escherichia coli inactivation in water</i> <u>Samuel Iwarere</u> , Emmanuel Gwanzura, Oluyemi Awolusi, Sheena Kumari, Deresh Ramjugernath
P1-75 ID-272	<i>A 0D thermochemical global model for the breakdown and the post discharge stages of a pulsed electrical discharge formed directly in water</i> <u>Benjamin DUFOUR</u> , Cathy ROND, Arlette VEGA, Xavier DUTEN
P1-76 ID-296	<i>Experimental analysis of a pin-to-pin electrical discharge in water: Influence of solution conductivity and applied voltage</i> <u>Rond Cathy</u> , Fagnon Nicolas, Aubert Xavier, Vega Arlette, Duten Xavier
P1-77 ID-325	<i>Electrochemical sensors to investigate the redox behavior of plasma treated liquids</i> <u>Zahra Nasri</u> , Mehdi Ravandeh, Heike Kahlert, Thomas von Woedtke, Kristian Wende
P1-78 ID-330	<i>Interferometric detection of pressure field developing around nanosecond discharge filaments in deionized water</i> <u>Petr Hoffer</u>
P1-79 ID-331	<i>Interferometric detection of pressure field developing around nanosecond discharge filaments in deionized water</i> <u>Petr Hoffer</u> , Václav Prukner, Jiří Schimdt, Milan Šimek
P1-80 ID-349	<i>Generation of OH radicals using an argon non-thermal microwave plasma jet</i> <u>Maria C García Martínez</u> , Enrique Casado, Antonio Rodero

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P1-81 ID-356	<i>Comparative study of spark channel expansion in water</i> <u>Petr Hoffer</u> , Vitaliy Stelmashuk, Karel Koláček, Jaroslav Štraus
P1-82 ID-366	<i>Interaction of plasma-generated reactive oxygen species with aqueous solutions</i> <u>Kerstin Sgonina</u> , Nils Dose, Jan Benedikt
P1-83 ID-388	<i>Comparative study of spark channel expansion in water</i> <u>Petr Hoffer</u> , Vitaliy Stelmashuk, Karel Koláček, Jaroslav Štraus
P1-84 ID-398	<i>Infrared absorption spectroscopy investigation of molecular species generated by surface dielectric barrier discharge micro-plasma in humid air</i> <u>Lucel Sirghi</u> , Adina Dascalu, Alexandra Besleaga, Sabina Teodoroff-Onesim, Valentin Pohoata, Kazuo Shimizu
P1-85 ID-430	<i>Plasma activated water generation, characterization and application for seed germination and plant growth</i> <u>Lakshminarayana Rao</u> , Harsha Rao, Punit Narayanappa, Anand M Shivapuji, Dasappa S
P1-86 ID-453	<i>Plasma-in LIquid (PLI) process for the synthesis of silver nanoparticles</i> <u>Arlette Vega González</u> , Cathy Rond
P1-87 ID-459	<i>AC air plasma in contact with water: fundamental investigation and application in water treatment</i> <u>James Diamond</u> , Jacopo Profili, Ahmad Hamdan
P1-88 ID-471	<i>Formation of hydroxyl radicals in a pulsed corona discharge in contact with liquid</i> <u>Monica Magureanu</u> , Florin Bilea, Corina Bradu
P1-89 ID-525	<i>Chemical Composition and Storage Stability of SDBD Air Plasma Activated Water (PAW)</i> <u>Estefania Noriega Fernandez</u> , Rebeca Garcia Alvarez, Izumi Sone, Mette Risa Vaka, James Leon Walsh, Leena Prabhu, Morten Sivertsvik

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P1-90 ID-558	<i>Improvement of stability and self-rotation in streamer discharge at atmospheric pressure plasma using dielectric layer</i> <u>Gyu Tae Bae</u> , Choon-Sang Park, Eun Young Jung, Hyo Jun Jang, Do Yeob Kim, Jeong Hyun Seo, Bhum Jae Shin, Hyung-Kun Lee, Heung-Sik Tae
P1-91 ID-585	<i>Comparison of reactive species generation in different cold plasma sources</i> <u>Jonas Van der Paal</u> , Gorbanev Yury, Helsen Elise, Van Boxem Wilma, Biscop Eline, Bogaerts Annemie
P1-92 ID-603	<i>Atmospheric pressure plasma treatment of cotton fabrics wet with different liquids</i> <u>Ricardo Molina</u> , Pieter Cools, Rino Morent, Nathalie De Geyster
Topic 10: Plasmas for environmental applications and resource recovery	
P1-93 ID-12	<i>RF and Arc Plasma for Environmental and Agriculture Applications</i> <u>George Paskalov</u> , Alexander Ustimenko, Vladimir Messerle, Alfred Mosse
P1-94 ID-14	<i>Plasma reactor for processing of industrial waste</i> <u>Alfred Mosse</u> , George Paskalov, Vladimir Messerle, Alexander Ustimenko
P1-95 ID-60	<i>Plasma water cleaning from emerging sub-micro contaminants: optimal regimes of PFOS and PFOA removal</i> <u>Alexander Rabinovich</u>
P1-96 ID-123	<i>Inertization of arsenic in the resin by microwave plasma</i> <u>Raynard Sanito</u>
P1-97 ID-124	<i>Pulsed Spark Discharge In-situ Spectral Detection of Perfluorinated Compounds (PFCs) in Water, on Filter Material, and in Soil</i> <u>Junchun Yang</u> , Charlse C. Bailey, Gregory Fridman, Sidney T. Ortiz, Alexander Fridman, Christopher Sales, Hai-Feng Ji

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P1-98 ID-158	<i>Application of Plasma System for Air Quality improvement in a Swine House</i> <u>Narong Mungkung</u> , Somchai Arunrungrusmi, Pakpoom Chansri
P1-99 ID-187	<i>Corona Discharge Induced Water Condensation in Air</i> <u>Yong Yang</u>
P1-100 ID-222	<i>Plasma reforming of naphthalene as a tar model compound of biomass gasification in an AC gliding arc discharge system</i> <u>Yaolin Wang</u> , Haiping Yang, Xin Tu
P1-101 ID-383	<i>An Analysis of the Decomposition of Sodium Dodecyl Sulphate Aqueous Solution by Atmospheric-pressure Non-equilibrium Microwave Discharge Plasma treatment</i> <u>Pakpoom Chansri</u> , Narong Mungkung, Somchai Arunrungrusmi, Toshifumi Yuji, Noritsugu Kamata
P1-102 ID-440	<i>The effect of catalyst properties on tars removal by plasma catalysis</i> <u>Richard Cimerman</u> , Karol Hensel, Mária Cíbková, Diana Račková
P1-103 ID-483	<i>NO_x production using pulsed atmospheric plasma discharge: Identification and diagnostics</i> <u>Yiwei Jiang</u> , Anton Nikiforov, Mikhail Gromov, Nathalie De Geyter, Rino Morent
P1-104 ID-485	<i>Magnetically assisted effect in a warm plasma reactor for GHG reforming</i> <u>Ricardo Valdivia-Barrientos</u> , Joel Pacheco-Sotelo, Marquidia Pacheco, Josimar Vences-Reynoso, Elena Colín-Orozco, Fidel Ramos-Flores, Hilda Frías-Palos, Miguel Angel Durán-García, Miguel Angel Hidalgo-Pérez
P1-105 ID-497	<i>Process optimization by response surface methodology of plasma-catalytic formaldehyde removal using MnO_x-Fe₂O₃ catalysts</i> <u>Tian Chang</u> , Zhenxing Shen, Savita K.P. Veerapandian, Rino Morent
P1-106 ID-511	<i>New insight into the removal kinetic of acetone in nitrogen plasma</i> <u>Lionel Magne</u> , Thomas Sébastien, Louarn Essylyt, Heninger Michel, Blin-Simiand Nicole, Lemaire Joël, Bournonville Blandine, Mestdagh Hélène, Stéphane Pasquiers

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P1-107 ID-540	<i>Torrefaction of food waste using a microwave plasma burner</i> <u>Dong Hun Shin</u> , Se Min Chun, Geon Woo Yang, Yong Cheol Hong, Jeong Ryul Lee, Sung Hun Lee
P1-108 ID-542	<i>Selective coproduction of phenol and cresols from anisole in non-thermal plasma: Insights into transalkylation reactions</i> <u>Yichen Ma</u> , Xin Tu
P1-109 ID-557	<i>Decomposition of volatile organic compounds by new type of DBD reactor using the adsorbent</i> <u>Byungjin Lee</u> , Dong-Wha Park
P1-110 ID-559	<i>NO_x treatment using DBD plasma applied by high frequency AC power supply</i> <u>Sujin Park</u> , Byungjin Lee, Dong-Wha Park
P1-111 ID-566	<i>Impact of gas flow on dielectric barrier discharge for air purification</i> <u>Bahram Mahdavi</u> pour, Rok Zaplotnik, Matjaz Panjan, Jens Oberrath, Sebastian Dahle
P1-112 ID-570	<i>Odorous volatile compounds conversion by electro-ceramic barrier discharge</i> <u>Nicole Blin Simiand</u> , Michel Héninger, Stéphane Pasquiers, Joël Lemaire, Blandine Bournonville, Hélène Mestdagh, Essylt Louarn
P1-113 ID-592	<i>Discharge formation inside the honeycomb structures assisted by surface barrier discharge</i> <u>Richard Cimerman</u> , Emanuel Mat'áš, Karol Hensel
P1-114 ID-593	<i>Short nanosecond microwave pulses for sustaining CO₂ plasma at atmospheric pressure: advances and challenges</i> <u>Sergey Soldatov</u> , Alexander Navarrete, John Jelonnek, Guido Link, Clara Schmedt, Roland Dittmeyer
P1-115 ID-622	<i>Plasma textile materials for nanoparticle filtration</i> <u>Alexei Saveliev</u> , Srinivasan Rasipuram, Warren Jasper, Andrey Kuznetsov, Jay Levine

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P1-116 ID-625	<i>The characteristics of atmospheric pressure flexible electrode DBD and its application to odor reduction</i> <u>Geonwoo Yang</u> , Sukhwal ma, Heejae Lee, Kangil Kim, Yongcheol Hong
P1-117 ID-628	<i>Non-Thermal Plasma induced degradation of organic perfluoroalkyl substances (PFAS) in water</i> <u>Cristina Paradisi</u> , O Biondo, M Saleem, G. Sretenovic, G Tomei, M Magarotto, D Pavarin, Ester Marotta