

Topic number	Author(s)	Title	Program number
1	Jaime de Urquijo, José Luis Hernández-Ávila, Eduardo Basurto, Gerardo Ruiz-Vargas and Antonio Juárez	Effective ionization coefficients and limiting field strength of SF <sub>6</sub> -N <sub>2</sub> O and CF <sub>3</sub> I-SF <sub>6</sub> -N <sub>2</sub> mixtures	P1.1.1
	Toshitsugu Gunji, Satoru Iizuka	Conversion of CO <sub>2</sub> to methane by a low-pressure hollow-cathode discharge	P1.1.2
	Miguel Jiménez-Redondo, Esther Carrasco, Víctor J. Herrero, Isabel Tanarro	Energy distributions of neutrals and ions in H <sub>2</sub> /D <sub>2</sub> hollow cathode discharges	P1.1.3
	V. Laporta, J. Tennyson, R. Celiberto	Resonant vibration excitation cross sections and rate coefficients for electron-CO and CO <sub>2</sub> scattering	P1.1.4
	Koichi Sasaki and Renge Asakawa	Optical emission intensity of molecular hydrogen in a recombining hydrogen plasma	P1.1.5
	A. Luque, F. J. Gordillo-Vázquez	Mesospheric electric breakdown and delayed sprite ignition caused by associative electron detachment	P1.1.6
	Esther Carrasco, Víctor J. Herrero, Isabel Tanarro	Time resolved diagnostics and kinetic modeling of the ignition transient of a H <sub>2</sub> +10%N <sub>2</sub> square wave modulated hollow cathode discharge	P1.1.7
	Z. Nikitović, V. Stojanović and Z. Lj. Petrović	Modeling in Ar/H <sub>2</sub> discharge	P1.1.8
	C. Foissac, J. Krištof, A. Anušová, P. Veis and P. Supiot	Kinetics of N <sub>2</sub> (B <sup>3</sup> Πg) and N <sub>2</sub> (C <sup>3</sup> Πu) states in N <sub>2</sub> -Ar discharges sustained by a RF helical coupling device	P1.1.9
	A. Anušová, C. Foissac, J. Krištof, P. Veis and P. Supiot	Vibrational Distribution Function of N <sub>2</sub> (C <sup>3</sup> Πu, v') state in N <sub>2</sub> -Ar discharge created by a RF helical coupling device	P1.1.10
	D. A. Little, J. Tennyson	Electron Collisions with N <sub>2</sub> <sup>+</sup> : Temperature Dependent Processes	P1.1.11
	S. Lovascio, N. Blin-Simiand, L. Magne, F. Jorand, P. Jeanney, S. Pasquiers	Ethanol decomposition in Air Dielectric Barrier Discharges: experimental study and kinetic modeling	P1.1.12
	E. Benova, P. Marinova, V. Marchev, M. Atanasova, Tz. Petrova	Effect of gas discharge conditions on argon surface-wave-sustained plasma kinetics	P1.1.13
	K. Omiya, I.M. Rusinov, S. Suzuki, H. Itoh	Temperature dependence of ozone loss rate	P1.1.15
	Luis Alves and The Lxcat Team	Status report on the Lxcat project	P1.1.16
	2	J. Amorim and J. Loureiro	Broadening of hydrogen lines produced by H <sub>2</sub> <sup>+</sup> +H <sub>2</sub> → H <sub>2</sub> <sup>+</sup> +H reaction with an energy-dependent cross section
B. Bernecker, A. Piquemal		Interactive diagnostics for a pulsed electron beam transport in plasma	P1.2.2
S. Mazouffre, D. Gerst, S. Cuyner, M. Cirisan		Plasma drift in a low-pressure magnetized RF discharge	P1.2.3
G. Afsahi, H. Behnejad, A. H. Jalili, L. A. Viehland		Gaseous ion mobility of SO <sub>2</sub> <sup>+</sup> ions in He and Ar	P1.2.4
Hirotake Sugawara		Stochastic scattering process to induce inward electron flow in electron conduction path between antiparallel gradient magnetic fields	P1.2.5
A. Takeda, N. Ikuta		PT and SST Electron Energy Distribution and Transport Properties in Lucas-Saelee Model Gas	P1.2.6
Y. Okuyama, M. Sabo, S. Suzuki, Š. Matejčík, H. Itoh		Measurement of negative ion mobility in ultra high purity O <sub>2</sub> at atmospheric pressure	P1.2.7
I. V. Schweigert, A. L. Alexandrov		Afterglow of rf discharge with nanoparticles	P1.2.8

	A. Janeco, N. R. Pinhão, V. Guerra	<b>Study of the electron kinetics in He/CH<sub>4</sub>/CO<sub>2</sub> mixtures for Syngas production</b>	P1.2.9
	R. Rincón, H.V. Nguyen, N. Bonifaci, F Aitken, V. M. Atrazhev, K. van Haeften	<b>Mobility of negative and positive ions in liquid and gaseous Helium at 4.5 K under different pressures.</b>	P1.2.10
4	Chyhin Vasyil	<b>Physical mechanisms of negative corona complicated current pulsation</b>	P1.4.1
	B.S. Borisov, V.I.Garkusha, A.G.Korsun, A.V.Rusakov, A.A.Sizov, T.M.Khomin And E.M.Tverdokhlebova, E. Skladnik-Sadowska,	<b>Ground Experimental Research of Electric-Discharge Processes in Own Plasma Environment and on the Dielectric and Mosaic Surfaces of Spacecrafts at their Electric Bias.</b>	P1.4.4
	K. Czaus, K. Malinowski, M.J. Sadowski, J. Zebrowski, K. Nowakowska-Langier, I.E. Garkusha, M. K. Ladvoina	<b>Studies of Deuterium-Plasma Interaction with a Tungsten Target at Different Energy Fluxes</b>	P1.4.5
	E. Skladnik-Sadowska, K. Czaus, K. Malinowski, M.J. Sadowski, J. Zebrowski, R. Kwiatkowski, M. Kubkowska, I.E. Garkusha, M. Ladygina	<b>Interaction of Intense Pulsed Plasma Streams with CFC Targets</b>	P1.4.6
	S. Chekour, A. Tahraoui, B. Zaham	<b>Dust grains trapping in magnetized electrostatic sheaths</b>	P1.4.7
	E. Fatarella, L. Parisi, F. Peruzzi, L. Corsi, L. Tacconi, R. Basosi, R. Pogni	<b>Sustainable finishing of wollen fabrics by means of plasma treatment</b>	P1.4.8
	M. Palmucci, R. Snyders, S. Konstantinidis	<b>Time- and Energy-resolved Mass Spectrometry Study of a Reactive High-Power Impulse Magnetron Sputtering Discharge.</b>	P1.4.9
	D. M. Thomas, C. T. N. Willis, J. E. Allen, M. Coppins	<b>The Bohm criterion for flowing plasmas</b>	P1.4.10
	M. Inoue, M. ITO, T. OHTA, M. HORI	<b>Film properties of indium-zinc-oxide films using RF magnetron sputtering evaluated by optical diagnostics in gas phase</b>	P1.4.11
	Kishor Kumar K, L. Couedel, C. Arnas and F. Onofri	<b>Tungsten nanoparticle formation in plasma discharges</b>	P1.4.12
J. Y. Zhang, R. Ichiki, Y. Kawai	<b>Sheath Potential Measurements in Negative Ion Plasma</b>	P1.5.1	
A. Nikiforov, L. Li, Q. Xiong, N. Britun, R. Snyders, Ch. Leys, X. P. Lu	<b>Time and spatial resolved laser induced spectroscopy of O atoms and OH radicals in 13.56 MHz RF plasma jet.</b>	P1.5.2	
J. Muñoz, J. Margot, and M. Chaker	<b>Absorption spectroscopy measurements of argon metastable and resonant atomic densities in a low pressure Ar/N<sub>2</sub> ICP</b>	P1.5.3	
Jean-Paul Booth, Nshant Sirse, Quentin Delivre and Pascal Chabert	<b>Gas temperature and electron density measurements in Ar and Ar-Cl<sub>2</sub> ICP discharges</b>	P1.5.4	
M.J. Sadowski, K. Czaus, K. Malinowski, E. Skladnik-Sadowska, J. Zebrowski	<b>Energy-, Mass- and Time-Resolved Measurements of Fast Ions Emitted from Plasma Discharges</b>	P1.5.5	
M. A. Ridenti, J. A. Souza-Corrêa, J. Amorim	<b>Measurements of the Ar<sup>+</sup> energy distribution from an atmospheric surface wave discharge in pure Ar and Ar-O<sub>2</sub> mixture</b>	P1.5.6	
L Li, A Nikiforov, Q Xiong, N Britun, R. Snyder, X Lu and C Leys	<b>LIF spectroscopy of OH radicals and the electron temperature in the effluent of atmospheric RF JET in Ar-H<sub>2</sub>O mixtures</b>	P1.5.7	

G. Wattieaux, L. Boufendi	<b>Electrical characterization of the correlation between the dust particles size and the plasma sheath impedance in a capacitively coupled radiofrequency dusty discharge</b>	P1.5.8
M. Kettlitz, H. Höft, T. Hoder, K.-D. Weltmann, and R. Brandenburg	<b>Comparison of pulsed and sinusoidal operated barrier discharges</b>	P1.5.9
A. Mahjoub, A. Gouveia, N. Carrasco, C.D. Pintassilgo, L. Marques, M. M. D. Ramos, L.L. Alves, G. Cernogora	<b>RF CAPACITIVELY COUPLED PLASMAS IN N<sub>2</sub>-H<sub>2</sub> MIXTURES</b>	P1.5.10
J. Winter, A. Hecimovic, T. de los Arcos, M. Böke, V. Schulz-von der Gathen, A. Pflug	<b>Instabilities in High Power Pulsed Magnetron Plasmas</b>	P1.5.11
N. Britun, T. Godfroid, and R. Snyders	<b>Time-Resolved Optical Emission Spectroscopy of a Surfaguide Flowing Gas Microwave Discharge</b>	P1.5.12
S. Hübner, E.A.D. Carbone, J.M. Palomares, J.J.A.M. van der Mullen	<b>Approaching the edges of a surfatron microwave plasma by Thomson scattering</b>	P1.5.14
Mark W. Kelly, James C. Richley and Michael N.R. Ashfold	<b>C/H/O plasmas for diamond growth: density measurements of key plasma species using cavity ring down and optical emission spectroscopy</b>	P1.5.15
Tsv K Popov, M Mitov, A Bankova, P Ivanova, M Dimitrova, S Rupnik, J Kovačič, T Gyergyek, M Čerček, F M Dias	<b>Langmuir Probe Evaluation of the Negative Ion Density in Oxygen Gas Discharge Magnetized Plasma</b>	P1.5.16
A.V. Pipa, T. Hoder, J. Koskulics, M. Schmidt, R. Brandenburg	<b>Experimental estimation of capacitances in pulsed barrier discharges</b>	P1.5.17
T. Hoder, J. Paillol, R. Brandenburg	<b>On the discharge mechanism and electric field strength development in negative corona Trichel pulses in atmospheric pressure air</b>	P1.5.18
S. Ponduri, S. Welzel, F. Brehmer, M. Ma, M.C.M. van de Sanden, R.Engeln	<b>Fuel synthesis through CO<sub>2</sub> reduction in a plasma expansion</b>	P1.5.19
T. Defais, C. Noël, T. Belmonte, G. Henrion	<b>Threshold ionization mass spectrometry and optical emission spectroscopy characterization of Ar/O<sub>2</sub>/N<sub>2</sub> microwave discharge</b>	P1.5.20
Kh. Tarnev, I. Koleva, St. Lishev, Ts. Paunska, S. Iordanova, A. Shivarova	<b>Mode transition in a small-radius planar-coil inductively-driven discharge</b>	P1.5.21
A. Michau, G. Lombardi, L. Colina Delacqua, M. Redolfi, C. Arnas, X. Bonnin, and K. Hassouni	<b>Self-Consistent Modeling of Particle Growth in DC Dusty Discharge</b>	P1.6.1
Mustapha Zakari, Hubert Caquineau, Pierre Ségur, Frédéric Bras, Nicolas Gherardi, Nicolas Naudé and Pierre Descamps	<b>Numerical modelling of an atmospheric pressure plasma reactor using control volume methods and unstructured grids</b>	P1.6.2
S. Möhr, E. Schuengel, J. Schulze, U. Czarnetzki	<b>The influence of field reversals on the DC self bias in capacitive RF-discharges</b>	P1.6.3
M.M. Becker, F. Sigener, D. Loffhagen	<b>On the description of electron transport in fluid models</b>	P1.6.4

6	P. Diomede, P.A. Delattre, E.V. Johnson, J.P. Booth, S. Longo, D. J. Economou, <small>M. Capitelli</small>	<b>Hybrid Model of Parallel Plate RF Discharges in H<sub>2</sub>: Effect of DC and Tailored Voltage Waveforms</b>	P1.6.5
	R. Westermann, R.Engeln, M.C.M.v.d.Sanden Z. Bonaventura, M.	<b>Processes in subsonic expanding thermal argon plasmas</b>	P1.6.6
	Duarte, A. Bourdon, M. Massot, S. Descombes, T. Dumont	<b>Numerical simulation of the interaction of two streamer discharges in air</b>	P1.6.9
	F. Tholin, A. Bourdon	<b>Numerical simulation of successive nanosecond pulsed discharges in air at atmospheric pressure</b>	P1.6.10
	Yu. Golubovskii, S. Gorchakov, H. Lange, A. Timofeev, D. Uhrlandt, J. Winter	<b>Distribution of metastable and resonance atoms in cathode region of low-pressure He-Xe discharge</b>	P1.6.12
	M. Baeva, A. Bösel, J. Ehlbeck, D. Loffhagen	<b>Self-consistent 2D fluid modelling of a microwave excited plasma in argon</b>	P1.6.13
7	B. Fleury, N. Carrasco, T. Gautier, A. Mahjoub, G. Cernogora	<b>On the influence of CO on a dusty N<sub>2</sub>-CH<sub>4</sub> CCP RF discharge</b>	P1.7.1
	V. Nosenko, A. V. Ivlev, G. E. Morfill	<b>Microstructure of a liquid complex (dusty) plasma under shear</b>	P1.7.2
	A. Melzer, A. Schella, J. Schablinski, D. Block, A. Piel	<b>Phase transitions in finite particle clusters in dusty plasmas</b>	P1.7.3
	A. Mahjoub, N. Carrasco, P.-R. Dahoo, T. Gautier, C. Szopa, and G. Cernogora	<b>Optical properties of organic material produced in a dusty plasma</b>	P1.7.4
	A. Gouveia, A. Mahjoub, N. Carrasco, L. Marques, L.L. Alves, G. Cernogora, C.D.Pintassilgo	<b>Experimental characterization of capacitively coupled radio-frequency discharges in N<sub>2</sub>-CH<sub>4</sub></b>	P1.7.5
	Bp Pandey, S.V. Vladimirov and Aa Samarian	<b>Shear driven instabilities in dusty plasmas</b>	P1.7.6
	R. Wild, L. Stollenwerk	<b>Breakdown of order in a self-organised barrier discharge</b>	P1.7.7
	J. T. Ouyang, S. W. Xu, X. X. Duan, I. Aslam, F. He	<b>Evolution of filamentary pattern in glow dielectric barrier discharge system</b>	P1.7.8
8	N. Carrasco, T. Gautier, E. Es-sebbar, P. Pernot, G. Cernogora	<b>Mimicking Titan's upper atmosphere reactivity with a RF-capacitively coupled N<sub>2</sub>-CH<sub>4</sub> plasma.</b>	P1.8.1
	Bp Pandey and S.V. Vladimirov	<b>Plasma magnetisation and Farley-Buneman Instability</b>	P1.8.2
	A. G. Oreshko	<b>The acceleration of charged particles in plasma at the separation of charges and generation of electrical domains</b>	P1.8.3
	A. G. Oreshko	<b>The effects of anomalous passing of ball lightning through absorbing filters and generation of dark spherical formation</b>	P1.8.4
	D. Resendes, J. Loureiro, M. Lino da Silva, and B. Lopez	<b>Gaussian superposition model for electron density profiles of hypersonic entries in Earth's atmosphere</b>	P1.8.5
9	S.I.Gritsinin, A.M.Davydov, I.A.Kossyi	<b>Advances of contemporary gas-discharge fundamental physics and based on them new microwave plasma sources</b>	P1.9.1
	V. I. Demidov, S. F. Adams, E. Bogdanov, M. E. Koepke, A. Kudryavtsev, J. M. Williamson	<b>Dynamic control of plasma properties in the initial stage of a pulsed discharge</b>	P1.9.2

9	Yoshio Watanabe, Tomohiro Yamaguchi Mikhail Pustylnik, Lujing Hou, Alexei Ivlev, Leonid Vasilyak, Hubertus Thomas, Gregor Morfill and Vladimir Fortov	<b>Effect on the Electrode Characteristics by the Metal Ring Encircling the Electrode</b>	P1.9.3
	L. Schiesko, P. Franzen, U. Fantz and NNBI Team	<b>High-Voltage Nanosecond Pulse Discharge in a Low-Pressure Preionized Medium</b>	P1.9.4
	S. Briefi, U. Fantz, G. Lieder	<b>Investigation of the plasma parameters in the expansion region of a negative hydrogen ion source for fusion</b>	P1.9.5
	Vasco Guerra, Namjun Kang, Minwook Lee, Soo-ghee Oh and André Ricard	<b>Investigations of indium halides as radiator in ICPs for lighting applications</b>	P1.9.6
	J. Schulze, E. Schüngel, S. Siepa, U. Czarnetzki	<b>Kinetics of the nitrogen pink afterglow in the presence of oxygen impurities</b>	P1.9.7
	Ts. Paunská, A. Shivarova, Kh. Tarnev	<b>Coupling effects in inductive discharges with RF substrate biasing</b>	P1.9.8
	Z. El Otell, M. D. Bowden, N. St. J. Braithwaite	<b>2D self-consistent model of a hydrogen discharge inductively driven by a planar coil</b>	P1.9.9
10	N. Georgescu, L. Apostol	<b>A simple optical emission spectroscopy technique for detecting EEDF changes in low-pressure pulsed-RF plasma</b>	P1.9.10
	Ronald M. Gilgenbach, David Chalenski, Y.Y. Lau, Sonal Patel, Adam Steiner, David Yager-Eliorraga, Matt Weis, Peng Zhang, Ian Rittersdorf and Jacob Zier	<b>Egg surface decontamination by using high voltage pulsed, cold atmospheric plasma jets</b>	P1.10.1
	A. Hamdan, T. Belmonte, C. Noël, G. Henrion	<b>Magneto Rayleigh-Taylor Instability in Dense Plasmas</b>	P1.10.2
	S.I.Gritsinin, A.M.Davydov, I.A.Kossyi	<b>Bubble dynamics created by plasma in heptane</b>	P1.10.3
	A. Khlyustova, A. Maximov, D. Panova Sebastien Mitea,	<b>Microwave coaxial plasma source (physics and applications)</b>	P1.10.4
	Monika Zeleznik, Mark Bowden, Paul May, Neil Fox, Chantal Fowler and Bob Stevens	<b>Comparison of face and diaphragm discharges action on aqueous solutions of dye's mix</b>	P1.10.5
	T. Verreycken, R. M. van der Horst, A. H. F. M. Baede, E. M. van Veldhuizen, P. J. Bruggeman	<b>Diamond-based microhollow cathode discharges</b>	P1.10.6
	V. Uvarin, D. Kuznetsov, S. Lyubutin, B. Slovikovskii	<b>Time and spatially resolved OH density in a nanosecond pulsed discharge in atmospheric pressure He-H<sub>2</sub>O mixtures</b>	P1.10.8
	H. Akashi, T. Yoshinaga, A. Oda	<b>Compact generator of 240 kV atmospheric pressure nanosecond discharge</b>	P1.10.9
	N. A. Bogatov	<b>Effect of secondary electron emission on atmospheric pressure oxygen dielectric barrier discharges</b>	P1.10.10
		<b>Threshold Measurements of Discharges from Floating Metal Particles in a Homogeneous Electric Field in Air</b>	P1.10.11