List of conferences, workshops and seminars

Ekaterina Iordanova

Period 2016 – 2001
Total contributions 57; 21 oral and 36 poster contributions

2016

Surface modification on medical grade PDMS by fs-laser irradiation
ICPEPA - 10th International Conference on Photo-Excited Processes and Applications, Brasov, Romania, August 29 – September 2, 2016
Poster contribution

Optical and morphological characterization of medical grade PDMS after surface modification by fs-laser irradiation
EMRS, Spring, Lille, Italy, May 2 – 6, 2016
Poster contribution

Ultrafast laser irradiation applied for surface modification on medical grade PDMS
INERA Conference - Vapor Phase Technologies for Metal Oxide and Carbon Nanostructures, Velingrad, Bulgaria, 5-6 July 2016
Oral contribution

Total 3 contributions for 2016; 2 oral and 1 poster contributions

2015

Femtosecond laser applications in material processing,
E. Iordanova, G. Yankov and M. Grozeva
XVIII Зимен семинар, Интердисциплинарна физика на младите учени и докторанти от институтите на научен комплекс 2 на БАН –, творчески дом на БАН – “Витоша”, София, 4-6, Декември 2015
Oral contribution

Femtosecond laser applications in material processing - surface modification and micromachining
E. Iordanova, G. Yankov and M. Grozeva
The effect of process parameters in femtosecond laser micromachining
K. Garasz, M. Tański, M. Kocik, E. Iordanova, G. Yankov, S. Karatodorov, M. Grozeva

Femtosecond lasers in nanotechnologies
E. Iordanova, G. Yankov, T. Petrov and M. Grozeva

Measurements of nonlinear susceptibility of multicomponent glassy matrix by using femtosecond z-scan method,
E. Iordanova, G. Yankov and M. Grozeva

Total 5 contributions for 2015; 4 oral and 1 poster contributions

2014

Femtosecond lasers - new technological opportunities
G. Yankov, E. Iordanova, R. Barbucha, M. Kocik, T. Petrov and M. Grozeva

Total 1 oral contribution

2012

Discrepancies between different electron temperature methods: probing the electron energy distribution function
E.A.D. Carbone
S. Hübner, E.I. Iordanova, N. de Vries, M. Jimenez, J.M. Palomares, J.J.A.M. van der Mullen

Total 1 oral contribution
Modeling of high power impulse magnetron sputtering
5th International Workshop & Summer School on Plasma Physics 2012 (IWSSPP 2012), Kiten, Bulgaria, 25-30 June 2012
Oral contribution

Two dimensional laser diagnostics and plasma modelling of an Argon surface wave discharge
5th International Workshop & Summer School on Plasma Physics 2012 (IWSSPP 2012), Kiten, Bulgaria, 25-30 June 2012
Oral contribution

Total 3 contributions for 2012; 2 oral and 1 poster contributions

2011

Non-Maxwell correction for the electron temperature determination by Thomson scattering and comparison with modeling
E.A.D. Carbone, M. Jimenez, E.I. Iordanova, J.J.A.M. van der Mullen
Poster contribution

Laser-plasma interactions: a criterion for avoiding laser heating
E.A.D. Carbone, S. Hübner, J.M. Palomares, E.I. Iordanova, J.J.A.M. van der Mullen
Poster contribution

Revision of the criterion to avoid electron heating during laser aided plasma diagnostics (LAPD)
E.A.D. Carbone, S. Hübner, J.M. Palomares, E.I. Iordanova, J.J.A.M. van der Mullen
15th International Symposium on Laser-Aided Plasma Diagnostics (LAPD15), Jeju, Korea, 09-13 October 2011
(Journal of Instrumentation ; 7). - p. C01016-1/10
Poster contribution

Total 3 contributions for 2011; 3 poster contributions

2010

Poly-diagnostic characterization of an atmospheric surfatron torch : approaching the cold atmospheric plasma conditions
J.M. Palomares, E.I. Iordanova, J.J.A.M. van der Mullen
Oral contribution

Poly-diagnostic validation of spectroscopic methods: case study on microwave plasma
E.I. Iordanova, J.M. Palomares, S. Hübner, J.J.A.M. van der Mullen
4th International Workshop & Summer School on Plasma Physics, Kiten, Bulgaria, 5-10 July 2010
Oral contribution

Thomson and Rayleigh scattering measurements on a low pressure microwave induced Argon plasma: the effects of hydrogen addition
E.A.D. Carbone, S. Hübner, E.I. Iordanova, J.M. Palomares, J.J.A.M. van der Mullen
4th International Workshop & Summer School on Plasma Physics, Kiten, Bulgaria, 5-10 July 2010
Poster contribution

Experimental study on the heavy particle density by Rayleigh scattering in microwave induced discharges
S. Hübner, E.A.D. Carbone, E.I. Iordanova, J.J.A.M. van der Mullen
4th International Workshop & Summer School on Plasma Physics, St. Kliment Ohridski University of Sofia, Kiten, Bulgaria, July 5 - 10, 2010
Poster contribution

Calibration of active and passive spectroscopic techniques applied on atmospheric microwave induced discharge
J.M. Palomares, E.I. Iordanova, A. Gamero, A. Sola, J.J.A.M. van der Mullen
4th International Workshop & Summer School on Plasma Physics, Kiten, Bulgaria, 5-10 July 2010
Oral contribution

Rayleigh scattering in a surface wave microwave discharge
S. Hübner, E.I. Iordanova, J.J.A.M. van der Mullen
22nd Symposium Plasma Physics & Radiation Technology, Lunteren, The Netherlands, 9-10 March 2010
Poster contribution

The discrepancy between two temperature methods
E.I. Iordanova, J.M. Palomares, S. Hübner, J.J.A.M. van der Mullen
European Plasma Conference HTPP-11, Brussels, Belgium, June 27 – July 2, 2010
Poster contribution

Heavy particle density determination by Rayleigh scattering in microwave induced discharge
S. Hübner, E.I. Iordanova, J.J.A.M. van der Mullen
European Plasma Conference HTPP-11, Brussels, Belgium, June 27 – July 2, 2010
Oral contribution

Spectroscopy study on an atmospheric surfatron torch
J.M. Palomares, A. Sola, A. Gamero, E. Iordanova and J.J.A.M. van der Mullen
European Plasma Conference HTPP-11, Brussels, Belgium, June 27 – July 2, 2010
Oral contribution

In-depth monitoring of microwave induced plasmas : validation of spectroscopic methods
E.I. Iordanova, J.M. Palomares, J.J.A.M. van der Mullen
24th Symposium on Plasma Physics and Technology, Prague, Czech Republic, June 14-17, 2010
Poster contribution

Total 10 contributions for 2010; 5 oral and 5 poster contributions

2009

Investigation of Ar and Ar/O2 atmospheric pressure plasmas: active and passive optical spectroscopies investigation of the plasma phase and analysis of plasma treated PTFE surfaces
Oral contribution

Poly-diagnostic study on microwave induced plasmas
E.I. Iordanova, J.M. Palomares, A. Gamero, A. Sola, J.J.A.M. van der Mullen
Oral contribution

Thomson scattering on low and high pressure surface wave sustained plasmas
J.M. Palomares, E.I. Iordanova, A. Gamero, A. Sola, J.J.A.M. van der Mullen
Oral contribution

Rayleigh and Thomson scattering on a microwave discharge a atmospheric pressure
A.F.H. van Gessel, E.I. Iordanova, J.M. Palomares, E.A.D. Carbone, F. Reniers, J.J.A.M. van der Mullen
12th Euregional Workshop on the Exploration of Low Temperature Plasma Physics
Microwave induced plasma for cell application
S. Hübner, E.I. Iordanova, J.J.A.M. van der Mullen
Poster contribution

Laser scattering on atmospheric plasmas
29th International Conference on Phenomena in Ionized Gases (ICPIG 2009), Cancún, México, 12-17 July 2009
Poster contribution

Plasma confining mode
E.I. Iordanova, J.M. Palomares, A. Gamero, A. Sola, J.J.A.M. van der Mullen
36th EPS Conference on Plasma Physics, Sofia, Bulgaria, 29 June - 3 July 2009
Poster contribution

Thomson scattering at low pressure surfatron induced Ar plasma: axial profiles of ne and Te determined.
E. Iordanova, J.M. Palomares, A. Gamero, A. Sola, J.J.A.M. van der Mullen.
36th EPS Conference on Plasma Physics, Sofia, Bulgaria, 29 June - 3 July 2009
Poster contribution

Polydiagnostic study on a surfatron plasma at atmospheric pressure
J.M. Palomares, E.I. Iordanova, A. Gamero, A. Sola, J.J.A.M. van der Mullen
36th EPS Conference on Plasma Physics, Sofia, Bulgaria, 29 June - 3 July 2009
Poster contribution

Theoretical investigation of surface-wave discharge characteristics at intermediate pressure range
E.I. Iordanova, E. Benova, G.T. Bogdanova, J.J.A.M. van der Mullen
36th EPS Conference on Plasma Physics, Sofia, Bulgaria, 29 June - 3 July 2009
Poster contribution

Absolute intensity measurements of both the continuum and line radiation on plasma created by torche à injection axiale
E.I. Iordanova, J.M. Palomares, J.J.A.M. van der Mullen
Poster contribution

Thomson scattering on low pressure surfatron plasmas: determination of the axial
profiles for the electron density and temperature
J.M. Palomares, E.I. Iordanova, J.J.A.M. van der Mullen
Poster contribution

Total 12 contributions for 2009; 3 oral and 9 poster contributions

2008

Severe violations of global plasma models
E.I. Iordanova, J.M. Palomares, N. de Vries, J.J.A.M. van der Mullen
Poster contribution

Severe violations of global plasma models
E.I. Iordanova, J.M. Palomares, N. de Vries, J.J.A.M. van der Mullen
19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG 2008), Granada, Spain, 15-19 July 2008
Poster contribution

A poly-diagnostic study on microwave induced argon plasma
E.I. Iordanova, N. de Vries, J.M. Palomares, J.J.A.M. van der Mullen, A. Gamero, J. Torres, A. Sola
Oral contribution

Thomson scattering on low pressure surfatron plasmas. Confirmation of the models and surprises
J.M. Palomares, E.I. Iordanova, N. de Vries, A. Gamero, A. Sola, J.J.A.M. van der Mullen
Ed. E. Benova, F.M. Dias (Journal of Physics: Conference Series ; 207)
Oral contribution

Experimental study on a surfatron argon plasma at low pressure
E.I. Iordanova, J.M. Palomares, N. de Vries, J.J.A.M. van der Mullen
Oral contribution

Diagnostics on a waveguide surfatron plasma
J. Ladroue, N. de Vries, E.I. Iordanova, J.J.A.M. van der Mullen

Poster contribution

**Total 6 contributions for 2008; 3 oral and 3 poster contributions**

**2007**

Experimental determination of the electron density in a microwave-induced argon plasma
E.I. Iordanova
Poster contribution

The electron density in a microwave-induced argon plasma determined from the continuum radiation
E.I. Iordanova, M. Guillemier, N. de Vries, A.H.F.M. Baede, J.J.A.M. van der Mullen
XXVIII International Conference on Phenomena in Ionised Gases (ICPIG 2007), Prague, Czech Republic, 15-20 July 2007
Poster contribution

A diagnostic study of microwave sustained plasmas: argon and oxygen mixtures
N. de Vries, W.E.N. van Harskamp, E.I. Iordanova, M.J. van den Donker, J.J.A.M. van der Mullen
7th Workshop on Frontiers in Low Temperature Plasma Diagnostics 2007 (F-LTPD 2007), Beverly, United Kingdom, 1-5 April 2007
Poster contribution

Experimental determination of the electron density in a microwave-induced argon plasma
E.I. Iordanova, N. de Vries, A.H.F.M. Baede, J.J.A.M. van der Mullen
Poster contribution

A diagnostic study of a microwave sustained plasma in argon : Influence of additive species
N. de Vries, W.E.N. van Harskamp, E.I. Iordanova, M.J. van den Donker, J.J.A.M. van der Mullen
Poster contribution
Total 5 contributions for 2007; 5 poster contributions

2006

The effect of the introduction of small amount of H2 on Ar-plasma properties
E.I. Iordanova, N. de Vries, E. Benova, A.H.F.M. Baede, J.J.A.M. van der Mullen
Poster contribution

Experimental determination of the plasma properties of microwave induced plasmas created in argon hydogen mixtures
E.I. Iordanova, N. de Vries, W.J.M. Brok, J.J.A.M. van der Mullen
Oral contribution

Using the continuüm radiation to determine the electron density in a microwave-induced plasma
E.I. Iordanova, N. de Vries, J.J.A.M. van der Mullen, A.H.F.M. Baede
Poster contribution

Experimental determination of the plasma properties of surface waves created argon plasmas
E.I. Iordanova, N. de Vries, J.J.A.M. van der Mullen
Poster contribution

Total 4 contributions for 2006; 1 oral and 3 poster contribution

2005

Investigation of an Argon microwave discharge produced by the axia; injection torch
E. Iordanova, J. Torres, E. Benova, A. Gamero ‘A. Sola
International Conference Advances in Physics and Astrophysics of the 21st Century, Varna, Bulgaria, September 6–11, 2005
Poster contribution
TEMPERATURE DIAGNOSTICS IN A HIGH PRESSURE HYDROGEN MICROWAVE PLASMA TORCH
J Torres, E Iordanova, E Benova, A Gamero, A Sola
1st International Workshop & Summer School on Plasma Physics, Kiten, Bulgaria, June 9-12, 2005
Poster contribution

Total 2 contributions for 2005; 2 poster contributions

2003
DOMINANT PROCESSES FOR EXCITED ATOMIC STATES POPULATION IN ARGON SURFACE-WAVE PLASMA AT LOW AND INTERMEDIATE PRESSURES- Ekaterina Iordanova, Tsvetelina Petrova, Evgenia Benova,
13th International Summer School Vacuum, Electron and Ion Technologies (VEIT), Varna, Bulgaria, September 2003
Poster contribution

Total 1 poster contributions for 2003

2002
QUENCHING OF EXCITED Ne ATOMS BY GROUNG STATE CADMIUM ATOMS
E. Iordanova, A. Blagoev
Poster contribution

Total 1 poster contributions for 2002

2001 – 1 contribution

DINAMICS OF EXCITED STATES POPULATING PROGRESSES IN ARGON SURFACE-WAVE SUSTAINED DISCHARGES
E. Benova, Ts. Petrova, E. Iordanova
Poster contributions.

Total 1 poster contributions for 2001