Plasma Processes, Materials and Surfaces, Publications list (2000 to present)

2017

Papers published in ISI journals


**Invited lectures**


**2016**

**Papers published in ISI journals**


V. Mărăscu, S. Vizireanu, S.D. Stoica, V. Barna, A. Lazea-Stoyanova, G. Dinescu, *FTIR investigation of the ageing process of carbon nanowalls*, Romanian Reports in Physics, **68** 3 (2016) PDF


V. Satulu, M.D. Ionita, S. Vizireanu, B. Mitu, **G. Dinescu**, *Plasma processing with fluorine chemistry for modification of surface wettability*, Molecules, **21**, 12, 1711, (2016)

2015

Papers published in ISI journals:


Invited lectures


Contributions presented as posters and oral presentations, published in Book of Abstracts of International Conferences

S. Vizireanu, M.D.Ionita, S.D. Stoica, M. Ionita, G. Dinescu, Modification of carbon nanowalls/water suspension by submerged plasma jets, 2nd Annual Meeting Barcelona - COST TD1208 - Electrical discharges with liquids for future applications, Barcelona, 23-26 February 2015, Spain


L.I. Kravets, R.G. Ibragimov, G. Dinescu, Micro- and nano fluid diodes based on polyethylene terephthalate track membranes, Institute of Physical Chemistry and Electrochemistry named after AN Frumkin of the Russian Academy of Sciences of the 6th All-Russian seminar Physical chemistry of surfaces and nanostructures Moscow, 3 - 4 February 2015
2014

Papers published in ISI journals:


A. Lazea-Stoyanova, M. Enculescu, S. Vizireanu, V. Marascu, G. Dinescu, Effects of process parameters on growth of metal particles by atmospheric pressure plasma jet, Digest Journal of Nanomaterials and Biostructures, 9, 3, 1241-1247, 2014


International Patents
I. Junkar, M. Modic, A. Vesel, G. Dinescu, S.I. Vizireanu, S.D. Stoica, K.S. Kleinschek, M. Mozetic, Method of growing carbon nanowalls on a substrate, registration number 1418056.6 from 13/10/2014, Great Britain

Contributions presented as posters and oral presentations, published in Book of Abstracts of International Conferences


G. Dinescu, Control of application-related properties carbon nanowalls synthesized by a plasma jet, Conference iPlasmaNano-V, 28 Septembrie - 2 octombrie 2014, Torremolinos, Malaga, Spagna cod M4-2

L.I. Kravets, A.B. Gilman, M.Yu. Yablokov, V. Satulu, B. Mitu, G. Dinescu, Nanofluidic diodes based on the track membranes modified by plasma, Proceedings of
the IX International Conference "Vacuum Equipment, Materials and Technology", 15-17 Aprilie 2014, Moscova, Rusia, Pag. 195-199


E.R. Ionita, M. Teodorescu, M. Bazavan, G. Dinescu, *Comparative study of two similar form factor atmospheric plasma jet sources with and without dielectric barriers*, 14th International Conference on Plasma Surface Engineering, 15 - 19 Septembrie 2014, Garmisch-Partenkirchen, Germania, cod PO3025


study of tungsten dust and massive samples, 21st International Conference on Plasma Surface Interactions, 26-30 Mai 2014, Ongaku-do, Kanazawa Ishikawa, Japonia, cod P1-022


2013

Papers published in ISI journals:


2012

Papers published in ISI journals:


V. Satulu, C. Stancu, V. Ion, M. Filipescu, B. Mitu, G. Dinescu, "Sequential PECVD/PVD technique used for the synthesis of copperpolypyrrole nanocomposites with surface plasmon resonance effect", Romanian Reports in Physics, 64, 1345–1353, 2012


Invited lectures:

Contributions presented and published in Book of Abstracts of International Conferences


**2011**

Papers published in ISI journals:


2010

Papers published in ISI journals:


Invited lectures:


Papers published as extended proceedings of international conferences


Contributions presented as posters and published in Book of Abstracts of International Conferences
L.I. Kravets, S.N. Dmitriev, V.A. Altynov, T.A. Goryacheva, V. Satulu, B. Mitu and G. Dinescu, “Fabrication of bilayered composite membranes with asymmetry of conductivity”, 10th International Meeting “Fundamental problems of solids state ionics, Chernogolovka, Russia, June 14-16, 2010

L.I.Kravets, S.N. Dmitriev, V.Satulu, B.Mitu, G. Dinescu, “Properties of track membranes with a layer of semiconductive polymers obtained by plasma polymerization”, Russian Kargin Conference Polymers, Moscow, Russia, June 21-25, 2010
L. Kravets, S. Dmitriev, V. Satulu, B. Mitu, G. Dinescu, “Structure and electrochemical properties of track membranes with a polymer layer obtained by plasma polymerization of acetylene”, 4th Inter. Workshop & Summer School on Plasma Physics, Kiten, Bulgaria, July 5-10, 2010

L. Kravets, S. Dmitriev, V. Satulu, B. Mitu, G. Dinescu, “Fabrication and electrochemical properties of polymer bilayered membranes”, 12th International Conference on Plasma Surface Engineering. Garmisch-Partenkirchen, Germany, September 13-17, 2010 – oral presentation

Kravets L.I., Dmitriev S.N., Goryacheva T.A., Satulu V., Mitu B., Dinescu G., “Structure and electrochemical properties of track membranes modified by plasma of tetrafluoroethane”, Russian Conference Membranes, Moscow, Russia, October 4-8, 2010

V. Satulu, B. Mitu, V. Ion, G. Aldica, G. Dinescu, “Ex-situ iodine doping of pulsed plasma polymerized polythiophene-like thin films”, 12th International Conference on Plasma Surface Engineering, Garmisch-Partenkirchen, Germany, September 13 - 17, 2010


M. Stancu, Gr. Ruxanda, S. Vizireanu, G. Dinescu, D. Ciuparu, “The model of formation of the carbonaceous deposit on the larger diameter electrode during the process of AC arc discharge”, 15th International Conference on Plasma Physics and Applications, Iasi, Romania, July 1-4 2010


Papers published in non-ISI journals:


Papers published in ISI journals:

S. Vizireanu, S.D. Stoica, B. Mitu, M.A. Husanu, A. Galca, L. Nistor and G. Dinescu, “Radiofrequency plasma beam deposition of various forms of carbon


Invited lectures:


G. Dinescu, “Surface modification and film deposition with expanding RF plasmas at atmospheric and low pressure”, invited lecture, 16th International Summer School on Vacuum, Electron and Ion Technologies (VEIT 2009), 27.09-2.10. 2009, Sunny Beach, Bulgaria (Abstracts IL 17, page 34


Papers published as extended proceedings of international conferences


L. Kravets, S. Dmitriev, V. Satulu, T. Acsente, G. Dinescu, „Polymer composite track nanomembranes with asymmetry of conductivity”, The 19th International


Contributions presented as posters and published in Book of Abstracts of International Conferences


V. Satulu, B. Mitu, A.C. Galca, G.V. Aldica, G. Dinescu, „Plasma investigation during carbon nanowalls synthesis by a radiofrequency beam discharge”, The European Materials Research Society (E-MRS) meeting, Symposium Q: Laser and
Plasma Processing of Advanced Materials, June 8 - 12, 2009, Strasbourg, France (poster contribution)


Oral presentations at workshops, project meetings


discharges”, MEDC Association Days, 26-27 November, 2009, Magurele Bucharest (oral presentation)

National Conferences

M. Teodorescu, E. R. Ionita, C. Stancu, M. Bazavan, G. Dinescu, “Small Size Dielectric Barrier Discharges at atmospheric pressure and their characterization”, Annual Scientific Conference, University of Bucharest, Faculty of Physics, June 05, 2009, Magurele-Bucharest, Romania

2008

Books


Papers In International Journals (ISI):


Invited lectures and seminars


G. Dinescu, “Radiofrequency plasma sources at low and atmospheric pressure and their applications: deposition, modification and cleaning of carbon based materials”, October 24, 2008, seminar presented at Paul Scherer Institute, Villigen, Switzerland (group of Prof. T. Lippert)

International Conferences (Extended Proceedings):


L.I. Kravets, V. Satulu, G. Dinescu, A.B. Gilman, ”The properties of track membranes with layer of polythiophene obtained by plasma polymerization”, Joint Institute for Nuclear Research, Flerov Laboratory of Nuclear Reactions, 141980, Moscow Region, Dubna, Joliot-Curie Str., 6 kravets@lnr.jinr.ru 2National Institute for Laser, Plasma and Radiation Physics, Atomistilor Str. 111, 77125 Magurele, Bucharest, Romania 3Enikolopov Institute of Synthetic Polymer Materials Russian Academy of Sciences, 117393, Moscow, Profsoyuznaya Str., 70


International Conferences (Book of Abstracts)


9th International Balkan Workshop on Applied Physics(9TH IBWAP) July 9-12, 2008, Constanta, Romania


E-MRS


E.C. Stancu, M.D. Ionita, M. Filipescu, L.M. Stefan, L. Moldovan, G. Dinescu, “Surface modification by atmospheric pressure plasma, jet source for interaction with cells”, 1st International Symposium on "Plasma Processing and Biomaterial Applications" (1st ISPPBA-2008), August 27-29, Milos, Greece

2007


M. Filipescu, N. Scarisoreanu, V. Craciun, B. Mitu, A. Purice, A.Moldovan, V. Ion, O. Toma, M. Dinescu, “High-k dielectric oxides obtained by PLD as solution


2006


2005

**A. Lazea**, L.I. Kravets, A. Bujor, C. Ghica, **G. Dinescu**, “Modification of polyester track membranes by plasma treatments”, Surface and Coating Technology, 200, 1-4, 529-533, 2005


**A. Lazea**, L.I. Kravets, A. Bujor, C. Ghica, **G. Dinescu**, “Modification of polyester track membranes by plasma treatments”, Surface and Coating Technology, 200, 1-4, 529-533, 2005


M. Bazavan, I. Iova, O. Toma, **G. Dinescu**, E.R. Ionita, “New data concerning the nitrogen 2(+) and 1(-) bands systems excitation in a cylindrical hollow cathode plasma in He+N-2 gas mixtures”, Journal of Optoelectronics and Advanced Materials 7 (5), 2379-2384, 2005

**C. Petcu**, B. Mitu, **G. Dinescu**, “Characterization of a tubular plasma reactor with external annular electrodes”, Romanian Reports in Physics, 57, 3, 390-395, 2005

2004


2003


2002


2001


A. de Graaf, E. Aldea, G. Dinescu, M.C.M. van de Sanden, “Investigation of processes in low-pressure expanding thermal plasmas used for carbon nitride deposition. II. Ar/N2 plasma with graphite nozzle”, Plasma Sources Science and Technology, 10, 524-529, 2001


2000