# Zoran Lj PetroviÄ

List of Publications by Year
in descending order



| 316 | 10,358 | 47006 47 | 49909 87 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 322 | 322 | 322 | 4847 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comparison of laser induced breakdown spectroscopy and fast ICCD imaging for spatial and time resolved measurements of atmospheric pressure helium plasma jet. Plasma Sources Science and Technology, 2022, 31, 025011. | 3.1 | 3 |
| 2 | Third-order transport coefficients for electrons in N2 and CF4: effects of non-conservative collisions, concurrence with diffusion coefficients and contribution to the spatial profile of the swarm. Plasma Sources Science and Technology, 2022, 31, 015003. | 3.1 | 3 |
| 3 | Cross sections and transport coefficients for electrons in C2H6O and its mixtures with Ar and Ne. European Physical Journal D, 2022, 76, 1. | 1.3 | 2 |
| 4 | Helium atmospheric pressure plasma jet parameters and their influence on bacteria deactivation in a medium. European Physical Journal D, 2022, 76, 1. | 1.3 | 2 |
| 5 | Foundations and interpretations of the pulsed-Townsend experiment. Plasma Sources Science and Technology, 2021, 30, 035017. | 3.1 | 9 |
| 6 | Voltageâ€“current characteristics of low-pressure discharges in vapors of several alcohols. Journal of Applied Physics, 2021, 129, 143303. | 2.5 | 2 |
| 7 | Plasma-Activated Medium Potentiates the Immunogenicity of Tumor Cell Lysates for Dendritic Cell-Based Cancer Vaccines. Cancers, 2021, 13, 1626. | 3.7 | 28 |
| 8 | Effective ionization coefficients for low current dc discharges in alcohol vapours at low pressure. European Physical Journal D, 2021, 75, 1. | 1.3 | 2 |
| 9 | Application of Fragrance Microcapsules onto Cotton Fabric after Treatment with Oxygen and Nitrogen Plasma. Coatings, 2021, 11, 1181. | 2.6 | 9 |
| 10 | Low-pressure DC breakdown in alcohol vapours. European Physical Journal D, 2020, 74, 1. | 1.3 | 5 |
| 11 | Third-order transport coefficient tensor of charged-particle swarms in electric and magnetic fields. Physical Review E, 2020, 101, 023203. | 2.1 | 10 |
| 12 | Third-order transport coefficient tensor of electron swarms in noble gases. European Physical Journal D, 2020, 74, 1. | 1.3 | 12 |
| 13 | Monte Carlo simulation of RF breakdown in oxygen â€“ the role of attachment. European Physical Journal D, 2020, 74, 1. | 1.3 | 4 |
| 14 | Effects of non-thermal atmospheric plasma treatment on dentin wetting and surface free energy for application of universal adhesives. Clinical Oral Investigations, 2019, 23, 1383-1396. | 3.0 | 18 |
| 15 | Electron transport coefficients and negative streamer dynamics in CF3I-SF6 mixtures. , 2019, , . | | 1 |
| 16 | Electron transport and propagation of negative streamers in liquid-phase xenon. , 2019, , . | | 0 |
| 17 | A set of cross sections and transport coefficients for CF3 + ions in CF4. Plasma Sources Science and Technology, 2019, 28, 045006. | 3.1 | 2 |
| 18 | DC discharge in low-pressure ethanol vapour. Plasma Sources Science and Technology, 2019, 28, 055011. | 3.1 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Electron transport and negative streamers in liquid xenon. Plasma Sources Science and Technology, 2019, 28, 015006. | 3.1 | 8 |
| 20 | Apoptosis Time Window Induced by Cold Atmospheric Plasma:Comparison with Ionizing Radiation. Current Science, 2019, 116, 1229. | 0.8 | 4 |
| 21 | Comparisons of Quantemol and Morgan LXCat cross section sets for electron-neutral scattering and rate-coefficients: Helium and water. Facta Universitatis - Series Physics Chemistry and Technology, 2019, 17, 145-159. | 0.5 | 1 |
| 22 | Electron transport in biomolecular gaseous and liquid systems: theory, experiment and self-consistent cross-sections. Plasma Sources Science and Technology, 2018, 27, 053001. | 3.1 | 31 |
| 23 | Destruction of chemical warfare surrogates using a portable atmospheric pressure plasma jet. European Physical Journal D, 2018, 72, 1. | 1.3 | 21 |
| 24 | Activity of catalase enzyme in Paulownia tomentosa seeds during the process of germination after treatments with low pressure plasma and plasma activated water. Plasma Processes and Polymers, 2018, 15, 1700082. | 3.0 | 42 |
| 25 | Characterisation of a multijet plasma device by means of mass spectrometric detection and iCCD imaging. Journal Physics D: Applied Physics, 2018, 51, 484004. | 2.8 | 11 |
| 26 | Influence of space charge density on electron energy distribution function and on composition of atmospheric pressure He/O2/air plasmas. European Physical Journal Plus, 2018, 133, 1. | 2.6 | 7 |
| 27 | Monte Carlo modeling of radio-frequency breakdown in argon. Plasma Sources Science and Technology, 2018, 27, 075013. | 3.1 | 20 |
| 28 | The influence of electrode configuration on light emission profiles and electrical characteristics of an atmospheric-pressure plasma jet. Journal Physics D: Applied Physics, 2017, 50, 145202. | 2.8 | 30 |
| 29 | Monte Carlo modeling and optimization of buffer gas positron traps. Plasma Sources Science and Technology, 2017, 26, 024003. | 3.1 | 3 |
| 30 | Mass spectrometry of diffuse coplanar surface barrier discharge: influence of discharge frequency and oxygen content in N2/O2 mixture*. European Physical Journal D, 2017, 71, 1. | 1.3 | 10 |
| 31 | Electrical and optical characterization of an atmospheric pressure, uniform, large-area processing, dielectric barrier discharge. Journal Physics D: Applied Physics, 2017, 50, 135204. | 2.8 | 15 |
| 32 | Plasma treated polyethylene terephthalate for increased embedment of UV-responsive microcapsules. Applied Surface Science, 2017, 419, 224-234. | 6.1 | 23 |
| 33 | Plasma effects on the bacteriaEscherichia colivia two evaluation methods. Plasma Science and Technology, 2017, 19, 075504. | 1.5 | 5 |
| 34 | Spatial profiles of positrons injected at low energies into water: influence of cross section models. Plasma Sources Science and Technology, 2017, 26, 045010. | 3.1 | 14 |
| 35 | QDB: a new database of plasma chemistries and reactions. Plasma Sources Science and Technology, 2017, 26, 055014. | 3.1 | 42 |
| 36 | Non-equilibrium of charged particles in swarms and plasmasâ€"from binary collisions to plasma effects. Plasma Physics and Controlled Fusion, 2017, 59, 014026. | 2.1 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The 2017 Plasma Roadmap: Low temperature plasma science and technology. Journal Physics D: Applied Physics, 2017, 50, 323001. | 2.8 | 710 |
| 38 | Cross sections and transport coefficients for H3 + ions in water vapour. European Physical Journal D, 2017, 71, 1. | 1.3 | 1 |
| 39 | Electron transport in mercury vapor: cross sections, pressure and temperature dependence of transport coefficients and NDC effects. European Physical Journal D, 2017, 71, 1. | 1.3 | 6 |
| 40 | Using Swarm Models as an Exact Representation of Ionized Gases. Plasma Processes and Polymers, 2017, 14, 1600124. | 3.0 | 13 |
| 41 | A CF<sub>4</sub>based positron trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 215001. | 1.5 | 17 |
| 42 | Electron swarm properties under the influence of a very strong attachment in SF<sub>6</sub>and CF<sub>3</sub>I obtained by Monte Carlo rescaling procedures. Plasma Sources Science and Technology, 2016, 25, 065010. | 3.1 | 16 |
| 43 | Fluid modeling of resistive plate chambers: impact of transport data on development of streamers and induced signals. Journal Physics D: Applied Physics, 2016, 49, 405201. | 2.8 | 10 |
| 44 | Plasmaâ€“liquid interactions: a review and roadmap. Plasma Sources Science and Technology, 2016, 25, 053002. | 3.1 | 1,111 |
| 45 | Advances in positron and electron scattering*. European Physical Journal D, 2016, 70, 1. | 1.3 | 2 |
| 46 | Radial profile of the electron energy distribution function in RF capacitive gas-discharge plasma. Journal of Physics: Conference Series, 2016, 700, 012007. | 0.4 | 0 |
| 47 | Scattering data for modelling positron tracks in gaseous and liquid water. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 145001. | 1.5 | 47 |
| 48 | Sterilization of bacteria suspensions and identification of radicals deposited during plasma treatment. Open Chemistry, 2015, 13, . | 1.9 | 21 |
| 49 | Production of active oxygen species in low pressure CCP used for sterilization of commercial seeds. , 2015, , . | | 0 |
| 50 | Scattering cross sections and electron transport coefficients for electrons in CF<inf>3</inf>I. , 2015, , . | | 0 |
| 51 | Positron kinetics in an idealized PET environment. Scientific Reports, 2015, 5, 12674. | 3.3 | 23 |
| 52 | Cross sections for electron collisions with tetrafluoroethane (C<inf>2</inf>H<inf>2</inf>F<inf>4</inf>). , 2015, , . | | 0 |
| 53 | Mass spectroscopy and ICCD analysis of coupled and uncoupled mode in a Gatling-gun like plasma source. , 2015, , . | | 0 |
| 54 | Electron impact cross-sections for biomolecules - completeness and self-consistency via swarm analysis. Journal of Physics: Conference Series, 2015, 635, 072079. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Practical and theoretical considerations on the use of ICCD imaging for the characterization of non-equilibrium plasmas. Plasma Sources Science and Technology, 2015, 24, 064004. | 3.1 | 33 |
| 56 | DC breakdown in vapours of liquids. , 2015, , . | | 0 |
| 57 | Scattering cross section set for electrons in CH<inf>3</inf>OCH<inf>3</inf>. , 2015, , . | | 0 |
| 58 | Breakdown and dc discharge in low-pressure water vapour. Journal Physics D: Applied Physics, 2015, 48, 424011. | 2.8 | 12 |
| 59 | Time-resolved optical emission imaging of an atmospheric plasma jet for different electrode positions with a constant electrode gap. Plasma Sources Science and Technology, 2015, 24, 025006. | 3.1 | 35 |
| 60 | Chemistry induced during the thermalization and transport of positrons and secondary electrons in gases and liquids. Plasma Sources Science and Technology, 2015, 24, 025016. | 3.1 | 7 |
| 61 | Cross sections and transport of Oâ^' in H2O vapour at low pressures. European Physical Journal D, 2015, 69, 1. | 1.3 | 10 |
| 62 | Heating mechanisms for electron swarms in radio-frequency electric and magnetic fields. Plasma Sources Science and Technology, 2015, 24, 054006. | 3.1 | 15 |
| 63 | Effect of dissipated power due to antenna resistive heating on E- to H-mode transition in inductively coupled oxygen plasma. Indian Journal of Physics, 2015, 89, 635-640. | 1.8 | 0 |
| 64 | New phenomenology of gas breakdown in DC and RF fields. Journal of Physics: Conference Series, 2014, 514, 012043. | 0.4 | 4 |
| 65 | Kinetic Phenomena in Transport of Electrons and Positrons in Gases caused by the Properties of Scattering Cross Sections. Journal of Physics: Conference Series, 2014, 488, 012047. | 0.4 | 2 |
| 66 | A microscopic Monte Carlo approach to modeling of Resistive Plate Chambers. Journal of Instrumentation, 2014, 9, P09012-P09012. | 1.2 | 9 |
| 67 | Inhibition of methicillin resistant Staphylococcus aureus by a plasma needle. Open Physics, 2014, 12, . | 1.7 | 7 |
| 68 | Influence of the cathode surface conditions onVâ€“Acharacteristics in low-pressure nitrogen discharge. Plasma Sources Science and Technology, 2014, 23, 035003. | 3.1 | 4 |
| 69 | Positron transport in CF4 and N2/CF4 mixtures. European Physical Journal D, 2014, 68, 1. | 1.3 | 16 |
| 70 | Plasma induced DNA damage: Comparison with the effects of ionizing radiation. Applied Physics Letters, 2014, 105, 124101. | 3.3 | 30 |
| 71 | Development of fast neutral etching for integrated circuits and nanotechnologies fast neutrals in gas. , 2014, , . | | 0 |
| 72 | Monte Carlo analysis of ionization effects on spatiotemporal electron swarm development. European Physical Journal D, 2014, 68, 1. | 1.3 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Boltzmann equation and Monte Carlo studies of electron transport in resistive plate chambers. Journal Physics D: Applied Physics, 2014, 47, 435203. | 2.8 | 16 |
| 74 | Gas breakdown and secondary electron yields. European Physical Journal D, 2014, 68, 1. | 1.3 | 45 |
| 75 | Electron swarm transport in THF and water mixtures. European Physical Journal D, 2014, 68, 1. | 1.3 | 36 |
| 76 | Long and short term effects of plasma treatment on meristematic plant cells. Applied Physics Letters, 2014, 104, . | 3.3 | 35 |
| 77 | On the use of Monte Carlo simulations to model transport of positrons in gases and liquids. Applied Radiation and Isotopes, 2014, 83, 148-154. | 1.5 | 28 |
| 78 | Monte Carlo modelling of positron transport in real world applications. Journal of Physics: Conference Series, 2014, 514, 012046. | 0.4 | 1 |
| 79 | Low-energy electron and positron transport in gases and soft-condensed systems of biological relevance. Applied Radiation and Isotopes, 2014, 83, 77-85. | 1.5 | 51 |
| 80 | Resistive Plate Chambers: electron transport and modeling. Journal of Physics: Conference Series, 2014, 565, 012008. | 0.4 | 1 |
| 81 | Mobility of positive ions in CF<sub>4</sub>. Journal of Physics: Conference Series, 2014, 514, 012059. | 0.4 | 12 |
| 82 | Plasma properties in a large-volume, cylindrical and asymmetric radio-frequency capacitively coupled industrial-prototype reactor. Journal Physics D: Applied Physics, 2013, 46, 075201. | 2.8 | 7 |
| 83 | Effects of non-thermal atmospheric plasma on human periodontal ligament mesenchymal stem cells. Journal Physics D: Applied Physics, 2013, 46, 345401. | 2.8 | 41 |
| 84 | Ionization coefficients for argon in a micro-discharge. Plasma Sources Science and Technology, 2013, 22, 045001. | 3.1 | 9 |
| 85 | Scattering cross sections for electrons in C<sub>2</sub>H<sub>2</sub>F<sub>4</sub>and its mixtures with Ar from measured transport coefficients. Journal Physics D: Applied Physics, 2013, 46, 325201. | 2.8 | 16 |
| 86 | Data for modeling of positron collisions and transport in gases. AIP Conference Proceedings, 2013, , . | 0.4 | 8 |
| 87 | Ion mobilities and transport cross sections of daughter negative ions in N<sub>2</sub>O and N<sub>2</sub>Oâ€“N<sub>2</sub>mixtures. Plasma Sources Science and Technology, 2013, 22, 025004. | 3.1 | 9 |
| 88 | Transport of F â^' ions in F 2. Europhysics Letters, 2013, 101, 45003. | 2.0 | 7 |
| 89 | On the approximation of transport properties in structured materials using momentum-transfer theory. New Journal of Physics, 2012, 14, 045011. | 2.9 | 10 |
| 90 | Application of non-equilibrium plasmas in medicine. Journal of the Serbian Chemical Society, 2012, 77, 1689-1699. | 0.8 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Positron transport in water vapour. New Journal of Physics, 2012, 14, 035003. | 2.9 | 22 |
| 92 | Transport of electrons in Ar/H 2 mixtures. Europhysics Letters, 2012, 99, 35003. | 2.0 | 2 |
| 93 | Kinetic phenomena in charged particle transport in gases and plasmas. , 2012, , . | | 0 |
| 94 | A Monte Carlo simulation of ion transport at finite temperatures. Plasma Sources Science and Technology, 2012, 21, 035001. | 3.1 | 55 |
| 95 | On the possibility of long path breakdown affecting the Paschen curves for microdischarges. Plasma Sources Science and Technology, 2012, 21, 035016. | 3.1 | 34 |
| 96 | Biomedical applications and diagnostics of atmospheric pressure plasma. Journal of Physics: Conference Series, 2012, 356, 012001. | 0.4 | 9 |
| 97 | Development of biomedical applications of non-equilibrium plasmas and possibilities for atmospheric pressure nanotechnology applications. , 2012, , . | | 0 |
| 98 | On approximations involved in the theory of positron transport in gases in electric and magnetic fields. European Physical Journal D, 2012, 66, 1. | 1.3 | 7 |
| 99 | Modelling single positron tracks in Ar. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 045207. | 1.5 | 21 |
| 100 | Detection of atomic oxygen and nitrogen created in a radio-frequency-driven micro-scale atmospheric pressure plasma jet using mass spectrometry. Plasma Physics and Controlled Fusion, 2012, 54, 124046. | 2.1 | 31 |
| 101 | Time resolved optical emission images of an atmospheric pressure plasma jet with transparent electrodes. Applied Physics Letters, 2012, 101, . | 3.3 | 53 |
| 102 | A set of cross sections and transport coefficients for electrons in HBr. Chemical Physics, 2012, 398, 154-159. | 1.9 | 11 |
| 103 | Cross sections and transport properties of positive ions in BF3 plasmas. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 151-154. | 1.4 | 9 |
| 104 | Monte Carlo simulation and Boltzmann equation analysis of non-conservative positron transport in H2. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 92-95. | 1.4 | 13 |
| 105 | Thermalization of positronium in helium: A numerical study. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 80-83. | 1.4 | 5 |
| 106 | Spatially resolved transport data for electrons in gases: Definition, interpretation and calculation. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 84-91. | 1.4 | 18 |
| 107 | Positron and Electron Interactions and Transport in Biological Media. Biological and Medical Physics Series, 2012, , 227-238. | 0.4 | 2 |
| 108 | Oscillation modes of direct current microdischarges with parallel-plate geometry. Journal of Applied Physics, 2011, 110, 083310. | 2.5 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | On Explanation of the Double-Valued Paschen-Like Curve for RF Breakdown in Argon. IEEE Transactions on Plasma Science, 2011, 39, 2556-2557. | 1.3 | 19 |
| 110 | Spectroscopic ellipsometry of few-layer graphene. Journal of Nanophotonics, 2011, 5, 051809. | 1.0 | 32 |
| 111 | Electrical Breakdown in Water Vapor. Physical Review E, 2011, 84, 055401. | 2.1 | 32 |
| 112 | Measurements and modeling of electron energy distributions in the afterglow of a pulsed discharge in BF <sub>3</sub>. Europhysics Letters, 2011, 95, 45003. | 2.0 | 6 |
| 113 | Positron transport in molecular gases in crossed electric and magnetic fields. Journal of Physics: Conference Series, 2011, 262, 012007. | 0.4 | 2 |
| 114 | Positrons in gas filled traps and their transport in molecular gases. Journal of Physics: Conference Series, 2011, 262, 012046. | 0.4 | 2 |
| 115 | Spatiotemporal Characteristics of Charged-Particle Swarms in Orthogonal Electric and Magnetic Fields. IEEE Transactions on Plasma Science, 2011, 39, 2566-2567. | 1.3 | 5 |
| 116 | Monte Carlo Model of Positron Transport in Water: Track Structures Based on Atomic and Molecular Scattering Data for Positrons. IEEE Transactions on Plasma Science, 2011, 39, 2962-2963. | 1.3 | 14 |
| 117 | Spatiotemporal Profile of Emission From Oscillating DC Microdischarges. IEEE Transactions on Plasma Science, 2011, 39, 2692-2693. | 1.3 | 4 |
| 118 | Visualization of Electron Transport Coefficients in RF Electric and Magnetic Fields Crossed at Arbitrary Angles. IEEE Transactions on Plasma Science, 2011, 39, 2560-2561. | 1.3 | 5 |
| 119 | On Anisotropy and Spatial Dependence of Doppler-Induced Broadening Due to Heavy-Particle Excitation. IEEE Transactions on Plasma Science, 2011, 39, 2592-2593. | 1.3 | 5 |
| 120 | Axial light emission and Ar metastable densities in a parallel plate dc microdischarge in the steady state and transient regimes. Plasma Sources Science and Technology, 2011, 20, 065001. | 3.1 | 15 |
| 121 | A multi-term solution of the nonconservative Boltzmann equation for the analysis of temporal and spatial non-local effects in charged-particle swarms in electric and magnetic fields. Plasma Sources Science and Technology, 2011, 20, 024013. | 3.1 | 49 |
| 122 | The 20th European Sectional Conference on Atomic and Molecular Physics of Ionized Gases. Plasma Sources Science and Technology, 2011, 20, 020201. | 3.1 | 0 |
| 123 | Numerical Modeling of Thermalization of Positrons in Gas-Filled Surko Traps. IEEE Transactions on Plasma Science, 2011, 39, 2614-2615. | 1.3 | 14 |
| 124 | Boltzmann Equation Analysis of Electron Transport in a N<sub>2</sub>â€“O<sub>2</sub>Streamer Discharge. Japanese Journal of Applied Physics, 2011, 50, 08JC01. | 1.5 | 26 |
| 125 | Boltzmann Equation Analysis of Electron Transport in a N<sub>2</sub>â€“O<sub>2</sub>Streamer Discharge. Japanese Journal of Applied Physics, 2011, 50, 08JC01. | 1.5 | 12 |
| 126 | On new developments in the physics of positron swarms. Journal of Physics: Conference Series, 2010, 199, 012016. | 0.4 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Effect Of Anode Surface on Doppler Profile in Townsend Discharge in Pure Hydrogen. , 2010, , . | | 0 |
| 128 | Non-equilibrium transport of positron and electron swarms in gases and liquids. Plasma Sources Science and Technology, 2010, 19, 034001. | 3.1 | 20 |
| 129 | On Application of Plasmas in Nanotechnologies. Nanostructure Science and Technology, 2010, , 85-130. | 0.1 | 5 |
| 130 | Application of non-equilibrium plasmas in top-down and bottom-up nanotechnologies and biomedicine. , 2010, , . | | 1 |
| 131 | Transport coefficients for electron scattering in CF <sub>4</sub> /Ar/O <sub>2</sub> mixtures with a significant presence of F <sub>x</sub> or CF <sub>x</sub> radicals. Europhysics Letters, 2010, 91, 55001. | 2.0 | 5 |
| 132 | The effect of a plasma needle on bacteria in planktonic samples and on peripheral blood mesenchymal stem cells. New Journal of Physics, 2010, 12, 083037. | 2.9 | 47 |
| 133 | Benchmark calculations of nonconservative charged-particle swarms in dc electric and magnetic fields crossed at arbitrary angles. Physical Review E, 2010, 81, 046403. | 2.1 | 59 |
| 134 | Measurements and analysis of electron transport coefficients obtained by a pulsed Townsend technique. Plasma Sources Science and Technology, 2010, 19, 034003. | 3.1 | 18 |
| 135 | Transport coefficients and cross sections for electrons in N<sub>2</sub>O and N<sub>2</sub>O/N<sub>2</sub>mixtures. Plasma Sources Science and Technology, 2010, 19, 025005. | 3.1 | 20 |
| 136 | Mass analysis of an atmospheric pressure plasma needle discharge. Plasma Sources Science and Technology, 2010, 19, 034014. | 3.1 | 38 |
| 137 | Modeling of thermalization of fast electrons in nitrogen at low pressures. Plasma Sources Science and Technology, 2009, 18, 034017. | 3.1 | 1 |
| 138 | Cross sections and transport properties of negative ions in rare gases. Journal of Physics: Conference Series, 2009, 162, 012004. | 0.4 | 7 |
| 139 | Total and positronium formation cross sections for positron scattering from H<sub>2</sub>O and HCOOH. New Journal of Physics, 2009, 11, 103036. | 2.9 | 63 |
| 140 | Electron impact ionization and transport in nitrogenâ€“argon mixtures. Journal Physics D: Applied Physics, 2009, 42, 045202. | 2.8 | 18 |
| 141 | Restoration of the Pure Dynamic Optogalvanic Signals in Ne Hollow Cathode Discharge. IEEE Transactions on Plasma Science, 2009, 37, 159-163. | 1.3 | 0 |
| 142 | Negative differential conductivity of positrons in gases. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 350-353. | 1.4 | 19 |
| 143 | Cross-sections and transport properties of Fâ˜ ions in Ar, Kr and Xe. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 295-298. | 1.4 | 3 |
| 144 | Electron transport coefficients in N2O in RF electric and magnetic fields. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 377-381. | 1.4 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Application of level set method in simulation of surface roughness in nanotechnologies. Thin Solid Films, 2009, 517, 3954-3957. | 1.8 | 10 |
| 146 | Influence of the surface conditions on rf plasma characteristics. European Physical Journal D, 2009, 54, 445-449. | 1.3 | 20 |
| 147 | Energetic ion, atom, and molecule reactions and excitation in low-current<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:ma | 2.1 | 19 |
| 148 | Energetic ion, atom, and molecule reactions and excitation in low-current<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mi>Î±</mml:mi></mml:msub></mml:mrow></mml:math> profiles. Physical Review E, 2009, 80, 066401. | 2.1 | 26 |
| 149 | Positron transport: The plasma-gas interface. Physics of Plasmas, 2009, 16, . | 1.9 | 18 |
| 150 | Measurement and interpretation of swarm parameters and their application in plasma modelling. Journal Physics D: Applied Physics, 2009, 42, 194002. | 2.8 | 171 |
| 151 | Spaceâ€“time development of low-pressure gas breakdown. Plasma Sources Science and Technology, 2009, 18, 034009. | 3.1 | 35 |
| 152 | Electron transport coefficients in mixtures of CF4and CF2radicals. Plasma Sources Science and Technology, 2009, 18, 035008. | 3.1 | 19 |
| 153 | Argon metastable state densities in inductively coupled plasma in mixtures of Ar and O<sub>2</sub>. Journal Physics D: Applied Physics, 2009, 42, 145206. | 2.8 | 27 |
| 154 | Low energy positron interactions - trapping, transport and scattering. Journal of Physics: Conference Series, 2009, 162, 012002. | 0.4 | 4 |
| 155 | Hollow cathode discharges: Volt-ampere characteristics and space-time resolved structure of the discharge. Journal of Physics: Conference Series, 2009, 162, 012007. | 0.4 | 14 |
| 156 | On the Role of Radicals in Kinetics of Plasma Etchers in Ar/CF<sub>4</sub>Mixtures. Acta Physica Polonica A, 2009, 115, 765-767. | 0.5 | 7 |
| 157 | Modeling of discharges in a capacitively coupled dual frequency plasma reactor. Hemijska Industrija, 2009, 63, 233-238. | 0.7 | 2 |
| 158 | Modeling of a breakdown voltage in microdischarges. Hemijska Industrija, 2009, 63, 293-299. | 0.7 | 0 |
| 159 | Excitation coefficients of O I (2p3 (4S0)3p) level by electron and fast neutral swarms. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 51-55. | 2.9 | 0 |
| 160 | Transport coefficients for positron swarms in nitrogen. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 462-465. | 1.4 | 26 |
| 161 | Cross sections and transport properties of Cl- ions in noble gases. European Physical Journal D, 2008, 48, 87-94. | 1.3 | 21 |
| 162 | Breakdown, scaling and voltâ€“ampere characteristics of low current micro-discharges. Journal Physics D: Applied Physics, 2008, 41, 194002. | 2.8 | 66 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Effective Discharge Area of Nonequilibrium DC Discharges. IEEE Transactions on Plasma Science, 2008, 36, 994-995. | 1.3 | 14 |
| 164 | Dynamics of the Profile Charging During $hbox{SiO}_{2}$ Etching in Plasma for High Aspect Ratio Trenches. IEEE Transactions on Plasma Science, 2008, 36, 874-875. | 1.3 | 27 |
| 165 | Monte Carlo studies of non-conservative electron transport in the steady-state Townsend experiment. Journal Physics D: Applied Physics, 2008, 41, 245205. | 2.8 | 69 |
| 166 | On the existence of transiently negative diffusion coefficients for electrons in gases inEÃ—Bfields. Journal Physics D: Applied Physics, 2008, 41, 025206. | 2.8 | 26 |
| 167 | Monte Carlo simulation of non-conservative positron transport in pure argon. New Journal of Physics, 2008, 10, 053034. | 2.9 | 44 |
| 168 | Top down nano technologies in production of integrated circuits and surface modification of materials. , 2008, , . | | 0 |
| 169 | Ultrasmall radio frequency driven microhollow cathode discharge. Applied Physics Letters, 2008, 93, 011501. | 3.3 | 33 |
| 170 | Modelling of anomalous Doppler broadened lines, thermalization of electrons and the role of radicals in discharges at high E/N. Journal of Physics: Conference Series, 2008, 133, 012003. | 0.4 | 6 |
| 171 | Space-time resolved kinetics of low-pressure breakdown. Journal of Physics: Conference Series, 2008, 115, 012001. | 0.4 | 0 |
| 172 | Electron, Ion and Atom Collisions Leading to Anomalous Doppler Broadening in Hydrogen. AIP Conference Proceedings, 2007, , . | 0.4 | 2 |
| 173 | Transport Coefficients for Electrons in Mixtures of Ar and HBr. Japanese Journal of Applied Physics, 2007, 46, 3560-3565. | 1.5 | 16 |
| 174 | On hydrogen negative ion formation and concentration measurements in hollow cathode and positive column glow discharge. Journal of Physics: Conference Series, 2007, 71, 012009. | 0.4 | 2 |
| 175 | Kinetic phenomena in charged particle transport in gases, swarm parameters and cross section data. Plasma Sources Science and Technology, 2007, 16, S1-S12. | 3.1 | 110 |
| 176 | Metastable and charged particle decay in neon afterglow studied by the breakdown time delay measurements. Physics of Plasmas, 2007, 14, . | 1.9 | 20 |
| 177 | Environmental impact of plasma application to textiles. Journal of Physics: Conference Series, 2007, 71, 012017. | 0.4 | 35 |
| 178 | Ion behavior in capacitively-coupled dual-frequency discharges. Journal of Physics: Conference Series, 2007, 86, 012011. | 0.4 | 31 |
| 179 | Spatiotemporal Development of Low-Pressure Gas Discharges. Journal of Physics: Conference Series, 2007, 86, 012009. | 0.4 | 9 |
| 180 | Modelling of breakdown behavior by PIC/MCC code with improved secondary emission models. Journal of Physics: Conference Series, 2007, 71, 012007. | 0.4 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Plasma boundary sheath in the afterglow of a pulsed inductively coupled RF plasma. Plasma Sources Science and Technology, 2007, 16, 355-363. | 3.1 | 33 |
| 182 | Data and modeling of negative ion transport in gases of interest for production of integrated circuits and nanotechnologies. Applied Surface Science, 2007, 253, 6619-6640. | 6.1 | 56 |
| 183 | Ionization coefficients in gas mixtures. Radiation Physics and Chemistry, 2007, 76, 551-555. | 2.8 | 5 |
| 184 | Vibrational excitation coefficients for electrons in HBr. Radiation Physics and Chemistry, 2007, 76, 573-576. | 2.8 | 5 |
| 185 | A Monte Carlo simulation of collisional processes in a Townsend discharge in neon. Radiation Physics and Chemistry, 2007, 76, 556-560. | 2.8 | 5 |
| 186 | Optical emission diagnostics of etching of low-k dielectrics in a two frequency inductively coupled plasma. Solid-State Electronics, 2007, 51, 1418-1424. | 1.4 | 19 |
| 187 | Radicals and Non-Equilibrium Processes in Low-Temperature Plasmas. Journal of Physics: Conference Series, 2007, 86, 011001. | 0.4 | 1 |
| 188 | Analysis of a Capacitively Coupled Dual-Frequency CF4Discharge. Japanese Journal of Applied Physics, 2006, 45, 8151-8156. | 1.5 | 67 |
| 189 | Measurements of voltageâ€“current characteristics of a plasma needle and its effect on plant cells. Journal Physics D: Applied Physics, 2006, 39, 3514-3519. | 2.8 | 47 |
| 190 | Escape factors for thermionic cathodes in atomic gases in a wide electric field range. Journal Physics D: Applied Physics, 2006, 39, 2959-2963. | 2.8 | 12 |
| 191 | Non-conservative electron transport in CF4in electric and magnetic fields crossed at arbitrary angles. Journal Physics D: Applied Physics, 2006, 39, 4788-4798. | 2.8 | 37 |
| 192 | Secondary electron emission of carbonaceous dust particles. Physical Review E, 2006, 74, 026406. | 2.1 | 34 |
| 193 | Electron excitation coefficients of neutral and ionic levels of krypton in Townsend discharges. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 951-958. | 2.9 | 3 |
| 194 | Modeling of absolute spatial emission profiles of Townsend discharges at high E/N in methane by a Monte Carlo technique. European Physical Journal D, 2006, 56, B958-B963. | 0.4 | 7 |
| 195 | Modelling of low-pressure gas breakdown in uniform DC electric field by PIC technique with realistic secondary electron emission. European Physical Journal D, 2006, 56, B996-B1001. | 0.4 | 6 |
| 196 | Investigation of modified thin SnO2layers treated by rapid thermal annealing by means of hollow cathode spectroscopy and AFM technique. Journal Physics D: Applied Physics, 2006, 39, 3267-3271. | 2.8 | 7 |
| 197 | Experiment for measurements of the gas breakdown statistics by ramp voltage pulses. Review of Scientific Instruments, 2006, 77, 096104. | 1.3 | 7 |
| 198 | The contribution of Nikola Tesla to plasma physics and current status of plasmas that he studied. Serbian Journal of Electrical Engineering, 2006, 3, 203-216. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | On parametrization and mixture laws for electron ionization coefficients. European Physical Journal D, 2005, 35, 313-321. | 1.3 | 50 |
| 200 | Stochastic and Relaxation Processes in Argon by Measurements of Dynamic Breakdown Voltages. Contributions To Plasma Physics, 2005, 45, 476-484. | 1.1 | 7 |
| 201 | Study of transient processes in nitrogen by measurements of dynamic breakdown voltages. EPJ Applied Physics, 2005, 30, 51-56. | 0.7 | 8 |
| 202 | Electron Collisions in our Atmosphere â€" How the Microscopic Drives the Macroscopic. AIP Conference Proceedings, 2005, , . | 0.4 | 0 |
| 203 | Transport coefficients for electrons in argon in crossed electric and magnetic rf fields. Plasma Sources Science and Technology, 2005, 14, 293-300. | 3.1 | 19 |
| 204 | Calculation of Escape Factors for Electrons in Neon and Helium. IEEE International Conference on Plasma Science, 2005, , . | 0.0 | 0 |
| 205 | Electron drift velocities in mixtures of helium and xenon and experimental verification of corrections to Blancâ€™s law. Physical Review E, 2005, 71, 046408. | 2.1 | 31 |
| 206 | Monte Carlo studies of electron transport in crossed electric and magnetic fields in CF4. Journal Physics D: Applied Physics, 2005, 38, 2952-2966. | 2.8 | 62 |
| 207 | Study of relaxation kinetics in argon afterglow by the breakdown time delay measurements. Physics of Plasmas, 2005, 12, 073502. | 1.9 | 28 |
| 208 | Colloquium: Physically based fluid modeling of collisionally dominated low-temperature plasmas. Reviews of Modern Physics, 2005, 77, 1303-1320. | 45.6 | 151 |
| 209 | Spatial profiles of electron swarm properties and explanation of negative mobility of electrons. IEEE Transactions on Plasma Science, 2005, 33, 532-533. | 1.3 | 20 |
| 210 | The stimulatory effect of non-equilibrium (low temperature) air plasma pretreatment on light-induced germination of Paulownia tomentosa seeds. Seed Science and Technology, 2004, 32, 693-701. | 1.4 | 68 |
| 211 | Depth Profile Analysis of New Materials in Hollow Cathode Discharge. AIP Conference Proceedings, 2004, , . | 0.4 | 0 |
| 212 | Application of Blanc?s law at arbitrary electric field to gas density ratios. European Physical Journal D, 2004, 28, 91-99. | 1.3 | 23 |
| 213 | Semiempirical analysis of electron scattering cross sections in N2O and CO2. European Physical Journal D, 2004, 54, C742-C746. | 0.4 | 3 |
| 214 | SnO thin films for gas sensors modified by hexamethyldisilazane after rapid thermal annealing. Sensors and Actuators B: Chemical, 2004, 100, 352-358. | 7.8 | 6 |
| 215 | Depth profile analysis of surface modified SnO2 gas sensors in a hollow cathode discharge. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 905-908. | 2.9 | 8 |
| 216 | Excitation coefficients and cross-sections for electron swarms in methane. New Journal of Physics, 2004, 6, 74-74. | 2.9 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Functional separation in two frequency operation of an inductively coupled plasma. Journal of Applied Physics, 2004, 95, 870-876. | 2.5 | 66 |
| 218 | Electron excitation coefficients and cross sections for excited levels of argon and xenon ions. Plasma Sources Science and Technology, 2004, 13, 333-342. | 3.1 | 19 |
| 219 | Infrared Auroral Emissions Driven by Resonant Electron Impact Excitation of NO Molecules. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 22 |
| 220 | Transport Coefficients for Electrons in CF4 in E(t)Ã—B(t) Fields. , 2004, , 187-192. | | 0 |
| 221 | Application of plasma technology for the modification of polymer and textile materials. Hemijska Industrija, 2004, 58, 55-63. | 0.7 | 2 |
| 222 | Recycled-wool-based nonwoven material as a sorbent for lead cations. Journal of Applied Polymer Science, 2003, 90, 379-386. | 2.6 | 29 |
| 223 | Electron scattering on N2O-from cross sections to diffusion coefficients. Radiation Physics and Chemistry, 2003, 68, 205-209. | 2.8 | 9 |
| 224 | Measurements and modelling of axial emission profiles in abnormal glow discharges in argon: heavy-particle processes. Journal Physics D: Applied Physics, 2003, 36, 2639-2648. | 2.8 | 61 |
| 225 | Negative absolute electron mobility, Joule cooling, and the second law. Journal of Chemical Physics, 2003, 119, 11249-11252. | 3.0 | 18 |
| 226 | Measurements and analysis of excitation coefficients and secondary electron yields in Townsend dark discharges. Plasma Sources Science and Technology, 2003, 12, S1-S7. | 3.1 | 41 |
| 227 | Negative mobilities of electrons in radio frequency fields. IEEE Transactions on Plasma Science, 2003, 31, 711-716. | 1.3 | 20 |
| 228 | Recycled Wool-Based Nonwoven Material as an Oil Sorbent. Environmental Science & Technology, 2003, 37, 1008-1012. | 10.0 | 307 |
| 229 | Electron transport coefficients in SiH4and Si2H6in dc and rf fields. Journal Physics D: Applied Physics, 2003, 36, 1936-1946. | 2.8 | 22 |
| 230 | Semianalytical models of volt-ampere characteristics of diffuse low-current low-pressure discharges. IEEE Transactions on Plasma Science, 2003, 31, 717-723. | 1.3 | 16 |
| 231 | Use of modern methods of fibre surface modification to obtain the multifunctional properties of textile materials. Hemijska Industrija, 2003, 57, 491-499. | 0.7 | 1 |
| 232 | Momentum Transfer Theory of Electron Transport in $$ vec E imes vec B $$ Field. , 2002, , 441-458. | | 4 |
| 233 | Optical computerized tomography of the E-H transition in inductively coupled plasmas in Ar and Ar-CF4mixtures. Journal Physics D: Applied Physics, 2002, 35, 454-461. | 2.8 | 57 |
| 234 | Transition between capacitive and inductive mode in inductively coupled plasma observed by emission computerized tomography. IEEE Transactions on Plasma Science, 2002, 30, 130-131. | 1.3 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | CCD images of low-pressure low-current DC discharges. IEEE Transactions on Plasma Science, 2002, 30, 136-137. | 1.3 | 9 |
| 236 | Kinetic phenomena in electron transport in radio-frequency fields. Applied Surface Science, 2002, 192, 1-25. | 6.1 | 80 |
| 237 | Development of optical computerized tomography in capacitively coupled plasmas and inductively coupled plasmas for plasma etching. Applied Surface Science, 2002, 192, 88-114. | 6.1 | 61 |
| 238 | Axial emission profiles and apparent secondary electron yield in abnormal glow discharges in argon. European Physical Journal D, 2002, 21, 73-81. | 1.3 | 61 |
| 239 | Momentum transfer theory of ion transport under the influence of resonant charge transfer collisions: the case of argon and neon ions in parent gases. European Physical Journal D, 2002, 21, 335-342. | 1.3 | 27 |
| 240 | Energy distributions of electrons in a low-current self-sustained nitrogen discharge. Journal of Applied Physics, 2001, 90, 5871-5877. | 2.5 | 20 |
| 241 | Memory effects in the afterglow: open questions on long-lived species and the role of surface processes. Journal Physics D: Applied Physics, 2001, 34, 1756-1768. | 2.8 | 48 |
| 242 | The effect of topographical local charging on the etching of deep-submicron structures in SiO2 as a function of aspect ratio. Applied Physics Letters, 2001, 78, 883-885. | 3.3 | 80 |
| 243 | Determination of effective electron yield from swarm and time delay measurements. EPJ Applied Physics, 2001, 14, 171-176. | 0.7 | 18 |
| 244 | Influence of resonant scattering on electron-swarm parameters in NO. Chemical Physics Letters, 2001, 350, 318-324. | 2.6 | 35 |
| 245 | Transition from diffuse to constricted low current discharge in argon. EPJ Applied Physics, 2000, 11, 59-69. | 0.7 | 22 |
| 246 | Modeling of back diffusion of electrons in argon. EPJ Applied Physics, 2000, 11, 35-42. | 0.7 | 25 |
| 247 | On the possibility of negative electron mobility in a decaying plasma. Journal Physics D: Applied Physics, 2000, 33, 375-380. | 2.8 | 39 |
| 248 | Functional separation of biasing and sustaining voltages in two-frequency capacitively coupled plasma. Applied Physics Letters, 2000, 77, 489-491. | 3.3 | 225 |
| 249 | Transport coefficients and scattering cross-sections for plasma modelling in CF4-Ar mixtures: a swarm analysis. Journal Physics D: Applied Physics, 2000, 33, 2146-2153. | 2.8 | 106 |
| 250 | Diffusion of electrons in time-dependentE(t)Ã—B(t) fields. Journal Physics D: Applied Physics, 2000, 33, 1298-1302. | 2.8 | 43 |
| 251 | Diagnostics of an inductively coupled CF4/Ar plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 864-872. | 2.1 | 36 |
| 252 | Boltzmann Equation Theory of Charged Particle Transport in Neutral Gases: Perturbation Treatment. Australian Journal of Physics, 1999, 52, 999. | 0.6 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | DT/Âµ andDL/Âµ for electrons in NO. Journal Physics D: Applied Physics, 1999, 32, 2746-2749. | 2.8 | 7 |
| 254 | Influence of light from nitrogen-filled lamps on the time delay of electrical breakdown in nitrogen-filled tubes. Journal Physics D: Applied Physics, 1999, 32, 1489-1493. | 2.8 | 20 |
| 255 | Cold-cathode discharges and breakdown in argon: surface and gas phase production of secondary electrons. Plasma Sources Science and Technology, 1999, 8, R21-R44. | 3.1 | 744 |
| 256 | Two-dimensional images of radiative and metastable excited state radial profiles for an inductively coupled plasma in argon. IEEE Transactions on Plasma Science, 1999, 27, 50-51. | 1.3 | 9 |
| 257 | Relaxation of electron swarm energy distribution functions in time-varying fields. IEEE Transactions on Plasma Science, 1999, 27, 78-79. | 1.3 | 26 |
| 258 | Benchmark calculations for Monte Carlo simulations of electron transport. IEEE Transactions on Plasma Science, 1999, 27, 1241-1248. | 1.3 | 74 |
| 259 | Third-order transport coefficients for charged particle swarms. Journal of Chemical Physics, 1999, 110, 2423-2430. | 3.0 | 17 |
| 260 | Drift Velocities of Electrons in Time Varying Electric Fields. Japanese Journal of Applied Physics, 1999, 38, 6077-6083. | 1.5 | 26 |
| 261 | Resonant vibrational excitation/de-excitation of N2(v) by electrons. Journal Physics D: Applied Physics, 1999, 32, 2620-2629. | 2.8 | 28 |
| 262 | Voltage and current characteristics of pulsed hollow cathode discharges in hydrogen. IEEE Transactions on Plasma Science, 1998, 26, 1492-1497. | 1.3 | 3 |
| 263 | Two-dimensional density distribution of metastable atoms in an inductively coupled plasma in Ar. Physical Review E, 1998, 58, 7823-7830. | 2.1 | 58 |
| 264 | The role of heavy particles in kinetics of low current discharges in argon at high electric field to gas number density ratio. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 329-336. | 2.1 | 60 |
| 265 | Time resolved optical emission spectroscopy of an inductively coupled plasma in argon and oxygen. Physical Review E, 1998, 57, R43-R46. | 2.1 | 44 |
| 266 | Comparison of the results of Monte Carlo simulations with experimental data for electron swarms in from moderate to very high electric field to gas density ratios. Journal Physics D: Applied Physics, 1998, 31, 834-846. | 2.8 | 63 |
| 267 | Transport Parameters for Electrons in Carbon Monoxide. Japanese Journal of Applied Physics, 1997, 36, 4733-4736. | 1.5 | 5 |
| 268 | Three Dimensional Optical Emission Tomography of an Inductively Coupled Plasma. Japanese Journal of Applied Physics, 1997, 36, 4605-4616. | 1.5 | 50 |
| 269 | Modelling of charged particle decay in nitrogen afterglow. Plasma Sources Science and Technology, 1997, 6, 240-246. | 3.1 | 46 |
| 270 | Temporal and constriction behavior of low-pressure, cathode-dominated argon discharges. Physical Review E, 1997, 56, 5920-5931. | 2.1 | 62 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Volt Ampere Characteristics of Low Current DC Discharges in Ar, H2, CH4and SF6. Japanese Journal of Applied Physics, 1997, 36, 4728-4732. | 1.5 | 39 |
| 272 | Excitation by electrons and fast neutrals in nitrogen discharges at very high electric field to gas number density ratios. Journal of Applied Physics, 1997, 81, 1601-1603. | 2.5 | 36 |
| 273 | Negative Differential Resistance, Oscillations and Constrictions of Low Pressure, Low Current Discharges. European Physical Journal Special Topics, 1997, 07, C4-341-C4-352. | 0.2 | 12 |
| 274 | Axial distribution of emission and rate of deposition of diamond-like film in r.f. discharges in CH4. Thin Solid Films, 1997, 304, 136-143. | 1.8 | 10 |
| 275 | Robot Assisted Optical Emission Tomography in an Inductively Coupled Plasma Reactor. Japanese Journal of Applied Physics, 1996, 35, 1890-1893. | 1.5 | 37 |
| 276 | Momentum transfer theory of nonconservative charged particle transport in mixtures of gases: General equations and negative differential conductivity. Physical Review E, 1996, 53, 4012-4025. | 2.1 | 87 |
| 277 | Constrictions in cathode-dominated, low-pressure argon discharges. IEEE Transactions on Plasma Science, 1996, 24, 107-108. | 1.3 | 5 |
| 278 | Application of microwave discharges for treatment of polymer surfaces. , 1996, , . | | 0 |
| 279 | Surface recombination in breakdown time delay experiments: Effect of different cathode materials. Plasma Chemistry and Plasma Processing, 1996, 16, 195-208. | 2.4 | 38 |
| 280 | Excitation of 2plevels of argon in Townsend discharges at a high ratio of electric field to gas density. Physical Review E, 1996, 53, 4007-4011. | 2.1 | 10 |
| 281 | The influence of frequency on the efficiency of dissociation of freons by microwave discharges. , 1995, , . | | 3 |
| 282 | On spatial distribution of optical emission in radio frequency discharges. Journal Physics D: Applied Physics, 1995, 28, 2287-2293. | 2.8 | 35 |
| 283 | The influence of excited states on the kinetics of excitation and dissociation in gas mixtures containing methane. Diamond and Related Materials, 1995, 4, 1103-1112. | 3.9 | 18 |
| 284 | Kinetics of the diamond-like film deposition on glass fibers. Diamond and Related Materials, 1995, 4, 1126-1130. | 3.9 | 11 |
| 285 | Simulations of rf glow discharges inSF6by the relaxation continuum model: Physical structure and function of the narrow-gap reactive-ion etcher. Physical Review E, 1994, 49, 4455-4465. | 2.1 | 99 |
| 286 | Surface recombination of atoms in a nitrogen afterglow. Journal of Chemical Physics, 1994, 100, 8514-8521. | 3.0 | 89 |
| 287 | The Radical Transport in the Narrow-Gap-Reactive-Ion Etcher in SF6by the Relaxation Continuum Model. Japanese Journal of Applied Physics, 1994, 33, 2223-2230. | 1.5 | 26 |
| 288 | Kinetics of activated nitrogen states in late afterglow by the time-delay method. Journal Physics D: Applied Physics, 1994, 27, 979-984. | 2.8 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Oscillations of low-current electrical discharges between parallel-plane electrodes. I. dc discharges. Physical Review E, 1993, 47, 2806-2815. | 2.1 | 102 |
| 290 | Oscillations of low-current electrical discharges between parallel-plane electrodes. III. Models. Physical Review E, 1993, 47, 2825-2838. | 2.1 | 124 |
| 291 | Influence of frequency, pressure, and mixture ratio of electronegative gas on electrical characteristics of rf discharges in N2â€SF6mixtures. Journal of Applied Physics, 1993, 74, 4923-4931. | 2.5 | 26 |
| 292 | Electronic excitation of the 750- and 811-nm lines of argon. Physical Review E, 1993, 47, 3566-3573. | 2.1 | 37 |
| 293 | Spatiotemporal optical emission spectroscopy of rf discharges in SF6. Journal of Applied Physics, 1993, 73, 2163-2172. | 2.5 | 73 |
| 294 | Explanation of memory curve for nitrogen by surface-catalysed excitation. Journal Physics D: Applied Physics, 1993, 26, 1611-1613. | 2.8 | 20 |
| 295 | Electron energy distribution functions in weakly ionized argon. Journal Physics D: Applied Physics, 1992, 25, 217-225. | 2.8 | 15 |
| 296 | Excitation by and surface reflection of fast hydrogen atoms in low-pressure hydrogen discharges. Physical Review Letters, 1992, 68, 325-328. | 7.8 | 101 |
| 297 | Excitation of Balmer lines in low-current discharges of hydrogen and deuterium. Physical Review A, 1992, 45, 7463-7468. | 2.5 | 15 |
| 298 | Dissociative excitation of hydrogen in rf and dc glow discharges through H2. Chemical Physics, 1991, 153, 233-245. | 1.9 | 17 |
| 299 | Transient signals induced by laser irradiation of negative ions in hollow electrode discharges of Cl2and HCl in N2. Journal of Applied Physics, 1990, 68, 2649-2656. | 2.5 | 4 |
| 300 | Lowâ€energy electron attachment to BCl3. Journal of Applied Physics, 1990, 67, 675-678. | 2.5 | 24 |
| 301 | Excitation of theC3Îustate ofN2andB2Î£g+state ofN2+by electrons at moderate and high values ofE/N. Physical Review A, 1990, 42, 4983-4992. | 2.5 | 17 |
| 302 | Optical emission spectroscopy of rf discharge in SF6. Journal of Applied Physics, 1990, 67, 97-107. | 2.5 | 33 |
| 303 | The influence of fast excited H fragments on balmer line emission cross section measurements for H2 and NH3 molecules. Chemical Physics, 1989, 134, 163-172. | 1.9 | 5 |
| 304 | Absolute balmer line and NH(c 1Îâ†'b 1Î£+, 0-0) vibrational band emission cross sections from NH3 molecules excited by electron impact. Chemical Physics, 1989, 130, 409-417. | 1.9 | 5 |
| 305 | Dissociative electron attachment to some chlorineâ€containing molecules. Journal of Chemical Physics, 1989, 90, 3145-3152. | 3.0 | 53 |
| 306 | Attachment of lowâ€energy electrons to HCl. Journal of Applied Physics, 1988, 64, 1625-1631. | 2.5 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Attachment and diffusion of thermal electrons in methyl bromide. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 5557-5565. | 1.6 | 28 |
| 308 | The Determination of the Diffusion Coefficient for Thermal Electrons in Water Vapour by the Use of a Modified Blanc's Law Procedure. Australian Journal of Physics, 1986, 39, 249. | 0.6 | 8 |
| 309 | The Application of Blanc's Law to the Determination of the Diffusion Coefficients for Thermal Electrons in Gases. Australian Journal of Physics, 1986, 39, 237. | 0.6 | 11 |
| 310 | Thermal-electron attachment to SF6at room temperature and 500K. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 2777-2791. | 1.6 | 62 |
| 311 | Excitation of theC 3 ĐŸ u state of N2 by an electron swarm. Zeitschrift FÃ¼r Physik A, 1983, 309, 293-300. | 1.4 | 29 |
| 312 | Experimental investigation of excitation of argon metastables by an electron swarm in argon nitrogen gas mixtures. Zeitschrift FÃ¼r Physik A, 1983, 312, 349-356. | 1.4 | 11 |
| 313 | Transmission of a transient electromagnetic wave obliquely incident on a compressible plasma halfspace. Journal of Applied Physics, 1981, 52, 2714-2716. | 2.5 | 0 |
| 314 | Non-equilibrium plasmas in telecommunication related technologies. , 0, , . | | 0 |
| 315 | Control of charging in high aspect ratio plasma etching of integrated circuits. , 0, , . | | 0 |
| 316 | The Role of Non-Equilibrium Plasmas and MicroDischarges in Top Down Nanotechnologies and Selforganized Assembly of Nanostructures. , 0, , . | | 3 |