

# Ismail Rafatov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6369219/publications.pdf>

Version: 2024-02-01

27  
papers

348  
citations

933410

10  
h-index

839512

18  
g-index

27  
all docs

27  
docs citations

27  
times ranked

208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of parameters of coaxial dielectric barrier discharges in argon flow at atmospheric pressure. <i>Journal of Applied Physics</i> , 2021, 129, 153305.	2.5	2
2	Parametric study of coaxial dielectric barrier discharge in atmospheric pressure argon. <i>Physics of Plasmas</i> , 2021, 28, 113505.	1.9	1
3	Transition from periodic to chaotic oscillations in a planar gas discharge-semiconductor system. <i>Plasma Sources Science and Technology</i> , 2020, 29, 065009.	3.1	7
4	Numerical evidence of spontaneous division of dissipative solitons in a planar gas discharge-semiconductor system. <i>Physics of Plasmas</i> , 2019, 26, 092105.	1.9	1
5	One-dimensional fluid and hybrid numerical analysis of the plasma properties in the discharge channel of a Hall thruster. <i>Turkish Journal of Physics</i> , 2018, 42, 649-658.	1.1	1
6	Transition from homogeneous stationary to oscillating state in planar gas discharge-semiconductor system in nitrogen: Effect of fluid modelling approach. <i>Physics of Plasmas</i> , 2018, 25, 082107.	1.9	10
7	An evidence of period doubling bifurcation in a dc driven semiconductor-gas discharge plasma. <i>Physics of Plasmas</i> , 2017, 24, 053503.	1.9	9
8	PIC/MCC analysis of a photoresonance plasma sustained in a sodium vapor. <i>Physics of Plasmas</i> , 2017, 24, 083505.	1.9	2
9	Spectroscopic study and numerical simulation of low-pressure radio-frequency capacitive discharge with argon downstream. <i>Canadian Journal of Physics</i> , 2017, 95, 190-200.	1.1	8
10	Three-dimensional numerical modelling of temporal and spatial pattern formation in a dc-driven gas discharge-semiconductor system. <i>Plasma Sources Science and Technology</i> , 2016, 25, 065014.	3.1	11
11	Particle in cell/Monte Carlo collision analysis of the problem of identification of impurities in the gas by the plasma electron spectroscopy method. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	8
12	Multiple stationary filamentary states in a planar dc-driven gas discharge-semiconductor system. <i>Physics of Plasmas</i> , 2016, 23, 123506.	1.9	6
13	Validation and parallelization of the particle in Cell/Monte Carlo Collision numerical code for the RF discharge simulations. , 2015, , .		0
14	Two-dimensional hybrid Monte Carlo fluid modelling of dc glow discharges: Comparison with fluid models, reliability, and accuracy. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	24
15	Particle in Cell/Monte Carlo Collision Method for Simulation of RF Glow Discharges: Effect of Super Particle Weighting. <i>Contributions To Plasma Physics</i> , 2014, 54, 626-634.	1.1	21
16	Extension of spatiotemporal chaos in glow discharge-semiconductor systems. <i>Chaos</i> , 2014, 24, 043127.	2.5	6
17	Account of nonlocal ionization by fast electrons in the fluid models of a direct current glow discharge. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	45
18	On the accuracy and reliability of different fluid models of the direct current glow discharge. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	63

#	ARTICLE	IF	CITATIONS
19	Radiative gas-dynamic model of a continuous optical discharge in a gravitational field: quasi-optical approximation. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 155207.	2.8	1
20	Effect of focusing geometry on the continuous optical discharge properties. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3336-3341.	2.1	25
21	On the Modelling of a Nonequilibrium Spherical Microwave Discharge at Atmospheric Pressure. <i>Contributions To Plasma Physics</i> , 2007, 47, 139-146.	1.1	1
22	Modelling of non-uniform DC driven glow discharge in argon gas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 367, 114-119.	2.1	22
23	Modelling of a nonequilibrium spherical electric discharge under higher modes of incident microwaves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 338, 353-365.	2.1	1
24	Modelling of a Spherical Electric Discharge at Atmospheric Pressure Under Higher Modes of Incident Microwaves. <i>Contributions To Plasma Physics</i> , 2005, 45, 139-154.	1.1	4
25	Oscillations in dc driven barrier discharges: Numerical solutions, stability analysis, and phase diagram. <i>Physical Review E</i> , 2005, 71, 066402.	2.1	26
26	Period doubling cascade in glow discharges: Local versus global differential conductivity. <i>Physical Review E</i> , 2004, 70, 056220.	2.1	42
27	On the accuracy and reliability of different fluid models of the direct current glow discharge. , 0, .		1