

Yu Golubovskii

List of Publications by Year in descending order

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84
papers

1,875
citations

331642

21
h-index

276858

41
g-index

84
all docs

84
docs citations

84
times ranked

915
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of the homogeneous barrier discharge in helium at atmospheric pressure. Journal Physics D: Applied Physics, 2003, 36, 39-49.	2.8	349
2	Influence of interaction between charged particles and dielectric surface over a homogeneous barrier discharge in nitrogen. Journal Physics D: Applied Physics, 2002, 35, 751-761.	2.8	286
3	Diffuse barrier discharges in nitrogen with small admixtures of oxygen: discharge mechanism and transition to the filamentary regime. Journal Physics D: Applied Physics, 2005, 38, 2187-2197.	2.8	141
4	Study of the homogeneous glow-like discharge in nitrogen at atmospheric pressure. Journal Physics D: Applied Physics, 2004, 37, 1346-1356.	2.8	73
5	Effect of the barrier material in a Townsend barrier discharge in nitrogen at atmospheric pressure. Journal Physics D: Applied Physics, 2006, 39, 1574-1583.	2.8	59
6	Title is missing!. Plasma Chemistry and Plasma Processing, 1998, 18, 153-180.	2.4	53
7	On the stability of a homogeneous barrier discharge in nitrogen relative to radial perturbations. Journal Physics D: Applied Physics, 2003, 36, 975-981.	2.8	49
8	Kinetic model of ionization waves in a positive column at intermediate pressures in inert gases. Physical Review E, 2001, 63, 036409.	2.1	37
9	Kinetic resonances and stratification of the positive column of a discharge. Physical Review E, 2005, 72, 026414.	2.1	34
10	Contraction of the positive column of discharges in noble gases. Plasma Sources Science and Technology, 2011, 20, 053002.	3.1	34
11	A comparison of kinetic and fluid models of the positive column of discharges in inert gases. Journal Physics D: Applied Physics, 1999, 32, 456-470.	2.8	33
12	Nonlocal electron kinetics and densities of excited atoms in SandPstriations. Physical Review E, 2000, 62, 2707-2720.	2.1	33
13	Transport mechanisms of metastable and resonance atoms in a gas discharge plasma. Plasma Sources Science and Technology, 2013, 22, 023001.	3.1	33
14	On the non-local electron kinetics in spatially periodic striation-like fields. Journal Physics D: Applied Physics, 1999, 32, 1391-1400.	2.8	32
15	Self-Consistent Model of a Positive Column in an Inert Gas Discharge at Low Pressures and Small Currents. Contributions To Plasma Physics, 1996, 36, 75-91.	1.1	27
16	On the bunching effect of electrons in spatially periodic resonance fields. Journal Physics D: Applied Physics, 1998, 31, 2447-2457.	2.8	27
17	Resonance effects in the electron distribution function formation in spatially periodic fields in inert gases. Physical Review E, 2003, 68, 026404.	2.1	26
18	Advances in the study of striations in inert gases. Technical Physics, 2014, 59, 1787-1800.	0.7	25

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19	Radial behaviour of the electron energy distribution function in the cylindrical magnetron discharge in argon. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 2655-2665.	2.8	24
20	Kinetic simulation model of magnetron discharges. <i>Physical Review E</i> , 2001, 63, 056408.	2.1	24
21	About the EDF formation in a capacitively coupled argon plasma. <i>Plasma Sources Science and Technology</i> , 2006, 15, 507-516.	3.1	23
22	Dust particle charging in a stratified glow discharge considering nonlocal electron kinetics. <i>Plasma Sources Science and Technology</i> , 2017, 26, 115003.	3.1	21
23	Metastable and resonance atom densities in a positive column: II. Application to light source modelling. <i>Plasma Sources Science and Technology</i> , 2005, 14, 45-50.	3.1	20
24	Metastable and resonance atom densities in a positive column: I. Distinctions in diffusion and radiation transport. <i>Plasma Sources Science and Technology</i> , 2005, 14, 36-44.	3.1	19
25	On electron bunching and stratification of glow discharges. <i>Physics of Plasmas</i> , 2013, 20, 101602.	1.9	18
26	Modelling of atmospheric pressure dielectric barrier discharges with emphasis on stability issues. <i>Plasma Sources Science and Technology</i> , 2007, 16, S67-S75.	3.1	17
27	Nonlocal electron kinetics and excited state densities in a magnetron discharge in argon. <i>Physical Review E</i> , 2002, 65, 046401.	2.1	16
28	On the density of metastable and resonance atoms in a stratified positive column in neon. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 1963-1973.	2.8	15
29	Shaping of the electron distribution function in a striated solution. <i>Technical Physics</i> , 1997, 42, 997-1003.	0.7	14
30	On the formation of electron velocity distribution functions in striation-like fields. <i>Plasma Sources Science and Technology</i> , 2002, 11, 309-316.	3.1	14
31	Dynamics of gas heating in a pulsed microwave nitrogen discharge at intermediate pressures. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 868-874.	2.8	14
32	Radial structure of the constricted positive column: Modeling and experiment. <i>Physical Review E</i> , 2017, 96, 023206.	2.1	14
33	Electron distribution function in the anode region of inert gas discharges at low pressures and currents. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 3025-3031.	2.8	13
34	Anisotropy of the electron component in a cylindrical magnetron discharge. I. Theory of the multiterm analysis. <i>Physical Review E</i> , 2005, 71, 066406.	2.1	13
35	On the decay of metastable and resonance Xe atoms in the afterglow of a constricted discharge. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 694-703.	2.8	11
36	Influence of the resonance radiation transport on plasma parameters. <i>EPJ Applied Physics</i> , 2007, 37, 101-104.	0.7	11

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37	Peculiarities of the resonant structure of the electron distribution function in S-, P- and R-striations. Plasma Sources Science and Technology, 2009, 18, 045022.	3.1	11
38	Population of resonance and metastable atoms in a cylindrical volume of finite size. Physical Review E, 2009, 79, 036409.	2.1	11
39	Investigation of resonance and metastable atoms in the afterglow of a He-Xe positive column plasma. Journal Physics D: Applied Physics, 2001, 34, 1840-1848.	2.8	10
40	Trapped and free electrons in the near-anode region of a striated discharge. Technical Physics, 1998, 43, 288-295.	0.7	9
41	On the Homogeneity of the Glow-Like Barrier Discharge at Atmospheric Pressure. Plasma Processes and Polymers, 2005, 2, 188-192.	3.0	9
42	Anisotropy of the electron component in a cylindrical magnetron discharge. II. Application to real magnetron discharge. Physical Review E, 2005, 71, 066407.	2.1	9
43	Effect of trapping of resonance radiation in a free-burning Ar arc. Journal Physics D: Applied Physics, 2015, 48, 225203.	2.8	9
44	The influence of resonance radiation transport on the contraction of a glow discharge in argon. Plasma Sources Science and Technology, 2015, 24, 025027.	3.1	9
45	Two-dimensional nonlocal model of axially and radially inhomogeneous plasma of cylindrical magnetron discharge. Physical Review E, 2003, 68, 016401.	2.1	8
46	Electron stochastic heating in a capacitively coupled low-pressure argon rf-discharge. Plasma Sources Science and Technology, 2009, 18, 025026.	3.1	8
47	Electron kinetics in cylindrical discharges of magnetron configurations. Plasma Sources Science and Technology, 2006, 15, 228-236.	3.1	7
48	Gas temperature in the cathode region of a dc glow discharge with a thermionic cathode. Journal Physics D: Applied Physics, 2008, 41, 085210.	2.8	7
49	Nonlocal electron kinetics and spectral line emission in the positive column of an argon glow discharge. Plasma Sources Science and Technology, 2015, 24, 025028.	3.1	7
50	Excited atoms in the free-burning Ar arc: treatment of the resonance radiation. Journal Physics D: Applied Physics, 2016, 49, 475202.	2.8	7
51	Instabilities of a constricted gas discharge with respect to two-dimensional wave perturbations. Plasma Sources Science and Technology, 2019, 28, 045015.	3.1	7
52	Peculiarities of glow discharge constriction in helium. Plasma Sources Science and Technology, 2020, 29, 065020.	3.1	7
53	Oscillations of the positive column plasma due to ionization wave propagation and two-dimensional structure of striations. Plasma Sources Science and Technology, 2004, 13, 135-142.	3.1	6
54	Stratification of discharge in noble gases from the viewpoint of the discrete dynamics. Physics of Plasmas, 2015, 22, 032105.	1.9	6

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55	Discharge stratification in noble gases as convergence of electron phase trajectories to attractors. <i>Physics of Plasmas</i> , 2016, 23, 123518.	1.9	6
56	Role of thermal effects in neon and argon constricted discharges. <i>Plasma Sources Science and Technology</i> , 2019, 28, 045007.	3.1	6
57	Measurement of gas temperature from the unresolved rotational structure of the first positive band system of nitrogen. <i>Journal of Applied Spectroscopy</i> , 1983, 39, 999-1003.	0.7	5
58	A self-consistent one-dimensional model of the anode region of inert gas discharges at low pressures and currents. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 517-523.	2.8	5
59	On the decay of the xenon (1s3) and (1s2) levels in the afterglow of a He/Xe discharge. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 697-702.	2.8	5
60	Nonlocal electron kinetics and radiation of a stratified positive column of discharge in neon. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 105205.	2.8	5
61	Spatial distribution of metastable and resonance atoms in a low-pressure He/Xe discharge in spot mode. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 055205.	2.8	5
62	Resonance properties of a single dust particle in a stratified glow discharge. <i>Plasma Sources Science and Technology</i> , 2018, 27, 065006.	3.1	5
63	Resonant behavior of the electron component of the plasma and stratification of the positive column of a gas discharge. <i>Plasma Sources Science and Technology</i> , 2021, 30, 115001.	3.1	5
64	The structure of the electron distribution function in R striations. <i>Technical Physics Letters</i> , 2007, 33, 711-714.	0.7	4
65	Role of resonance radiation transfer in the ionization balance of positive column discharge. <i>Russian Journal of Physical Chemistry B</i> , 2015, 9, 533-539.	1.3	4
66	Dust Particle Charge in a Stratified Glow Discharge. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 723-726.	1.3	4
67	Modeling and Diagnostic of the Plasma of Magnetic Field Supported Discharges. <i>Contributions To Plasma Physics</i> , 2005, 45, 319-327.	1.1	3
68	Investigations of the diffuse and spot modes in a low-pressure dc argon discharge with coiled-coil cathodes. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 4601-4610.	2.8	3
69	Spatial relaxation of selective laser perturbations in a glow discharge plasma. <i>Physical Review E</i> , 2013, 87, 013103.	2.1	3
70	On reabsorption and radiation trapping in homogeneous and inhomogeneous gas discharge plasmas. <i>Plasma Sources Science and Technology</i> , 2011, 20, 055013.	3.1	2
71	Influence of the inaccuracy of the plasma potential on the shape of the electron distribution function obtained from the probe characteristic. <i>Plasma Sources Science and Technology</i> , 2010, 19, 045019.	3.1	1
72	On relaxation of the electron distribution function in resonant striation-like fields. <i>Technical Physics</i> , 2011, 56, 731-735.	0.7	1

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73	Spatially resolved LAAS/OES diagnostics of a free-burning Ar arc: measurements of excited atom densities. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 075204.	2.8	1
74	About the photoemission of electrons from the surface of a spherical dust particle in gas discharge plasma. <i>Plasma Sources Science and Technology</i> , 0, , .	3.1	1
75	Influence of radiation transport on discharge characteristics of an atmospheric pressure plasma jet in Argon. <i>Plasma Sources Science and Technology</i> , 0, , .	3.1	1
76	The role of resonance radiation in the propagation of a positive pre-breakdown ionization wave in long discharge tubes. <i>Plasma Sources Science and Technology</i> , 0, , .	3.1	1
77	Non-local electron kinetics and densities of excited atoms in S- and P-striations. <i>European Physical Journal D</i> , 2000, 50, 319.	0.4	0
78	Resonant formation of the electron distribution function in striation-like electric fields. <i>Technical Physics Letters</i> , 2008, 34, 901-904.	0.7	0
79	The role of visible and resonance radiation in the energy balance of LTE plasma in argon. <i>Plasma Sources Science and Technology</i> , 2015, 24, 015004.	3.1	0
80	Influence of resonance radiation transfer on ionization balance in a positive column plasma. <i>Journal of Physics: Conference Series</i> , 2016, 735, 012066.	0.4	0
81	Ray tracing method for the description of radiation trapping in 3D plasma domains. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 425204.	2.8	0
82	Nonlinear oscillations of a single dust particle as the basis of the method for the DC plasma diagnostics. <i>Journal of Instrumentation</i> , 2019, 14, C10034-C10034.	1.2	0
83	Constriction and stratification of the positive column of a glow discharge in inert gases. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
84	S-, P- and R-striations as attractors for electron phase trajectories in spatially periodic resonance fields. <i>Journal of Physics: Conference Series</i> , 2021, 2103, 012216.	0.4	0