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List of Publications by Year
in descending order

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50 papers	2,151 citations	430874 18 h-index	265206 42 g-index
50 all docs	50 docs citations	50 times ranked	1950 citing authors

#	Article	IF	Citations
1	Voltageâ€“current characteristics of low-pressure discharges in vapors of several alcohols. Journal of Applied Physics, 2021, 129, 143303.	2.5	2
2	Recent studies with electrons, positrons and positronium. European Physical Journal D, 2020, 74, 1.	1.3	1
3	Low-pressure DC breakdown in alcohol vapours. European Physical Journal D, 2020, 74, 1.	1.3	5
4	DC discharge in low-pressure ethanol vapour. Plasma Sources Science and Technology, 2019, 28, 055011.	3.1	5
5	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
6	Monte Carlo modeling of radio-frequency breakdown in argon. Plasma Sources Science and Technology, 2018, 27, 075013.	3.1	20
7	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
8	Cross sections and transport coefficients for H3 + ions in water vapour. European Physical Journal D, 2017, 71, 1.	1.3	1
9	Using Swarm Models as an Exact Representation of Ionized Gases. Plasma Processes and Polymers, 2017, 14, 1600124.	3.0	13
10	Plasmaâ€“liquid interactions: a review and roadmap. Plasma Sources Science and Technology, 2016, 25, 053002.	3.1	1,111
11	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
12	DC breakdown in vapours of liquids. , 2015, , .		0
13	Breakdown and dc discharge in low-pressure water vapour. Journal Physics D: Applied Physics, 2015, 48, 424011.	2.8	12
14	Cross sections and transport of Oâ˜ in H2O vapour at low pressures. European Physical Journal D, 2015, 69, 1.	1.3	10
15	New phenomenology of gas breakdown in DC and RF fields. Journal of Physics: Conference Series, 2014, 514, 012043.	0.4	4
16	Influence of the cathode surface conditions onVâ€“Acharacteristics in low-pressure nitrogen discharge. Plasma Sources Science and Technology, 2014, 23, 035003.	3.1	4
17	Development of fast neutral etching for integrated circuits and nanotechnologies fast neutrals in gas. , 2014, , .		0
18	Gas breakdown and secondary electron yields. European Physical Journal D, 2014, 68, 1.	1.3	45

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19	27th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2014). Journal of Physics: Conference Series, 2014, 565, 011001.	0.4	1
20	Ionization coefficients for argon in a micro-discharge. Plasma Sources Science and Technology, 2013, 22, 045001.	3.1	9
21	On the possibility of long path breakdown affecting the Paschen curves for microdischarges. Plasma Sources Science and Technology, 2012, 21, 035016.	3.1	34
22	Development of biomedical applications of non-equilibrium plasmas and possibilities for atmospheric pressure nanotechnology applications. , 2012, , .		0
23	Oscillation modes of direct current microdischarges with parallel-plate geometry. Journal of Applied Physics, 2011, 110, 083310.	2.5	24
24	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
25	Electrical Breakdown in Water Vapor. Physical Review E, 2011, 84, 055401.	2.1	32
26	Spatiotemporal Profile of Emission From Oscillating DC Microdischarges. IEEE Transactions on Plasma Science, 2011, 39, 2692-2693.	1.3	4
27	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
28	The 20th European Sectional Conference on Atomic and Molecular Physics of Ionized Gases. Plasma Sources Science and Technology, 2011, 20, 020201.	3.1	0
29	On Application of Plasmas in Nanotechnologies. Nanostructure Science and Technology, 2010, , 85-130.	0.1	5
30	Application of non-equilibrium plasmas in top-down and bottom-up nanotechnologies and biomedicine. , 2010, , .		1
31	Dual-frequency capacitive radiofrequency discharges: effect of low-frequency power on electron density and ion flux. Plasma Sources Science and Technology, 2010, 19, 015005.	3.1	101
32	Measurement and interpretation of swarm parameters and their application in plasma modelling. Journal Physics D: Applied Physics, 2009, 42, 194002.	2.8	171
33	Spaceâ€“time development of low-pressure gas breakdown. Plasma Sources Science and Technology, 2009, 18, 034009.	3.1	35
34	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
35	Nonequilibrium Processes in Plasmas. Journal of Physics: Conference Series, 2009, 162, 011001.	0.4	0
36	Breakdown, scaling and voltâ€“ampere characteristics of low current micro-discharges. Journal Physics D: Applied Physics, 2008, 41, 194002.	2.8	66

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37	Effective Discharge Area of Nonequilibrium DC Discharges. IEEE Transactions on Plasma Science, 2008, 36, 994-995.	1.3	14
38	Space-time resolved kinetics of low-pressure breakdown. Journal of Physics: Conference Series, 2008, 115, 012001.	0.4	0
39	Negative ions in single and dual frequency capacitively coupled fluorocarbon plasmas. Plasma Sources Science and Technology, 2007, 16, S87-S93.	3.1	44
40	Spatiotemporal Development of Low-Pressure Gas Discharges. Journal of Physics: Conference Series, 2007, 86, 012009.	0.4	9
41	Ionization coefficients in gas mixtures. Radiation Physics and Chemistry, 2007, 76, 551-555.	2.8	5
42	Secondary electron emission of carbonaceous dust particles. Physical Review E, 2006, 74, 026406.	2.1	34
43	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
44	Spatial Structure and Basic Kinetic Processes in Low-Pressure Gas Discharges. AIP Conference Proceedings, 2006, , .	0.4	1
45	On parametrization and mixture laws for electron ionization coefficients. European Physical Journal D, 2005, 35, 313-321.	1.3	50
46	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
47	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
48	CCD images of low-pressure low-current DC discharges. IEEE Transactions on Plasma Science, 2002, 30, 136-137.	1.3	9
49	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
50	The Role of Non-Equilibrium Plasmas and MicroDischarges in Top Down Nanotechnologies and Selforganized Assembly of Nanostructures. , 0, , .		3