J-P Boeuf

List of Publications by Year
in descending order

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214 papers	11,282 citations	25014 57 h-index	31818 101 g-index
214 all docs	214 docs citations	214 times ranked	3706 citing authors

#	Article	IF	Citations
1	Plasma display panels: physics, recent developments and key issues. Journal Physics D: Applied Physics, 2003, 36, R53-R79.	1.3	514
2	The 2012 Plasma Roadmap. Journal Physics D: Applied Physics, 2012, 45, 253001.	1.3	511
3	Low frequency oscillations in a stationary plasma thruster. Journal of Applied Physics, 1998, 84, 3541-3554.	1.1	360
4	Numerical model of rf glow discharges. Physical Review A, 1987, 36, 2782-2792.	1.0	335
5	Tutorial: Physics and modeling of Hall thrusters. Journal of Applied Physics, 2017, 121, .	1.1	326
6	Transition between different regimes of rf glow discharges. Physical Review A, 1990, 41, 4447-4459.	1.0	314
7	A Monte Carlo analysis of an electron swarm in a nonuniform field: the cathode region of a glow discharge in helium. Journal Physics D: Applied Physics, 1982, 15, 2169-2187.	1.3	309
8	Numerical model of an ac plasma display panel cell in neonâ€xenon mixtures. Journal of Applied Physics, 1995, 78, 731-745.	1.1	306
9	Electrohydrodynamic force and aerodynamic flow acceleration in surface dielectric barrier discharge. Journal of Applied Physics, 2005, 97, 103307.	1.1	295
10	Dynamics of a guided streamer (â€˜plasma bulletâ€™) in a helium jet in air at atmospheric pressure. Journal Physics D: Applied Physics, 2013, 46, 015201.	1.3	284
11	Electrohydrodynamic force in dielectric barrier discharge plasma actuators. Journal Physics D: Applied Physics, 2007, 40, 652-662.	1.3	280
12	Two-dimensional model of a capacitively coupled rf discharge and comparisons with experiments in the Gaseous Electronics Conference reference reactor. Physical Review E, 1995, 51, 1376-1390.	0.8	261
13	Pseudospark discharges via computer simulation. IEEE Transactions on Plasma Science, 1991, 19, 286-296.	0.6	215
14	Modelling of a nanosecond surface discharge actuator. Journal Physics D: Applied Physics, 2009, 42, 194017.	1.3	199
15	Two-dimensional, hybrid model of low-pressure glow discharges. Physical Review E, 1994, 49, 5607-5622.	0.8	196
16	Theory and Modeling of Self-Organization and Propagation of Filamentary Plasma Arrays in Microwave Breakdown at Atmospheric Pressure. Physical Review Letters, 2010, 104, 015002.	2.9	184
17	A twoâ€dimensional model of dc glow discharges. Journal of Applied Physics, 1988, 63, 1342-1349.	1.1	160
18	Two-dimensional simulation of an alternating current matrix plasma display cell: Cross-talk and other geometric effects. Journal of Applied Physics, 1998, 83, 1884-1897.	1.1	149

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19	Measurement and 3D Simulation of Self-Organized Filaments in a Barrier Discharge. Physical Review Letters, 2006, 96, 255001.	2.9	147
20	Two-dimensional model of a stationary plasma thruster. Journal of Applied Physics, 2002, 91, 5592-5598.	1.1	142
21	Simulations of self-organized filaments in a dielectric barrier glow discharge plasma. Journal of Applied Physics, 1999, 85, 7569-7572.	1.1	130
22	Predicted properties of microhollow cathode discharges in xenon. Applied Physics Letters, 2005, 86, 071501.	1.5	130
23	Characteristics of a dusty nonthermal plasma from a particle-in-cell Monte Carlo simulation. Physical Review A, 1992, 46, 7910-7922.	1.0	120
24	Role of anomalous electron transport in a stationary plasma thruster simulation. Journal of Applied Physics, 2003, 93, 67-75.	1.1	114
25	Critical assessment of a two-dimensional hybrid Hall thruster model: Comparisons with experiments. Physics of Plasmas, 2004, 11, 3035-3046.	0.7	112
26	Contribution of positive and negative ions to the electrohydrodynamic force in a dielectric barrier discharge plasma actuator operating in air. Journal of Applied Physics, 2009, 106, .	1.1	112
27	Transition from a capacitive to a resistive regime in a silane radio frequency discharge and its possible relation to powder formation. Journal of Applied Physics, 1992, 71, 4751-4754.	1.1	106
28	Addressing and sustaining in alternating current coplanar plasma display panels. Journal of Applied Physics, 1999, 86, 124-133.	1.1	98
29	Model of an inductively coupled negative ion source: II. Application to an ITER type source. Plasma Sources Science and Technology, 2011, 20, 015002.	1.3	98
30	Self-organized filaments in dielectric barrier glow discharges. IEEE Transactions on Plasma Science, 1999, 27, 20-21.	0.6	93
31	A fluid model for colloidal plasmas under microgravity conditions. New Journal of Physics, 2003, 5, 32-32.	1.2	91
32	Model description of surface dielectric barrier discharges for flow control. Journal Physics D: Applied Physics, 2008, 41, 095205.	1.3	91
33	Numerical Model of an Argon Atmospheric Pressure RF Discharge. IEEE Transactions on Plasma Science, 2008, 36, 2782-2787.	0.6	91
34	Pattern formation and propagation during microwave breakdown. Physics of Plasmas, 2010, 17, 123505.	0.7	90
35	Rotating structures in low temperature magnetized plasmasÃ¢â‚¬â€insight from particle simulations. Frontiers in Physics, 2014, 2, .	1.0	90
36	Numerical and experimental diagnostics of rf discharges in pure and dusty argon. Physical Review A, 1992, 46, 7923-7933.	1.0	89

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37	Model study of the influence of the magnetic field configuration on the performance and lifetime of a Hall thruster. Physics of Plasmas, 2003, 10, 4886-4892.	0.7	89
38	Physics of Eâ€‰Ã—â€‰B discharges relevant to plasma propulsion and similar technologies. Physics of Plasmas, 2020, 27, .	0.7	89
39	Eâ€‰Ã—â€‰B electron drift instability in Hall thrusters: Particle-in-cell simulations vs. theory. Physics of Plasmas, 2018, 25, .	0.7	86
40	Generation, annihilation, dynamics and self-organized patterns of filaments in dielectric barrier discharge plasmas. Applied Physics Letters, 2012, 100, 244108.	1.5	83
41	Anomalous cross field electron transport in a Hall effect thruster. Applied Physics Letters, 2006, 89, 161503.	1.5	81
42	Computational Studies of Filamentary Pattern Formation in a High Power Microwave Breakdown Generated Air Plasma. IEEE Transactions on Plasma Science, 2010, 38, 2281-2288.	0.6	81
43	Cathode sheath formation in a dischargeâ€sustained XeCl laser. Journal of Applied Physics, 1993, 74, 1553-1567.	1.1	77
44	Pattern formation and dynamics of plasma filaments in dielectric barrier discharges. Plasma Sources Science and Technology, 2014, 23, 054003.	1.3	73
45	2D axial-azimuthal particle-in-cell benchmark for low-temperature partially magnetized plasmas. Plasma Sources Science and Technology, 2019, 28, 105010.	1.3	72
46	Energy balance in a nonequilibrium weakly ionized nitrogen discharge. Journal of Applied Physics, 1986, 60, 915-923.	1.1	71
47	Model of an inductively coupled negative ion source: I. General model description. Plasma Sources Science and Technology, 2011, 20, 015001.	1.3	71
48	Rotating Instability in Low-Temperature Magnetized Plasmas. Physical Review Letters, 2013, 111, 155005.	2.9	71
49	Physics, simulation and diagnostics of Hall effect thrusters. Plasma Physics and Controlled Fusion, 2008, 50, 124041.	0.9	70
50	Three dimensional simulations of pattern formation during high-pressure, freely localized microwave breakdown in air. Physics of Plasmas, 2014, 21, 123513.	0.7	70
51	Diagnostics and modeling of a macroscopic plasma display panel cell. Journal of Applied Physics, 2000, 88, 3905.	1.1	67
52	Ionizationâ€“diffusion plasma front propagation in a microwave field. Plasma Sources Science and Technology, 2011, 20, 035007.	1.3	62
53	Modeling of plasma transport and negative ion extraction in a magnetized radio-frequency plasma source. New Journal of Physics, 2017, 19, 015002.	1.2	61
54	Calculated gas temperature profiles in argon glow discharges. Journal of Applied Physics, 2000, 88, 2234-2239.	1.1	60

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55	Modeling and comparison of sinusoidal and nanosecond pulsed surface dielectric barrier discharges for flow control. Plasma Physics and Controlled Fusion, 2010, 52, 124019.	0.9	60
56	Field reversal in the negative glow of a DC glow discharge. Journal Physics D: Applied Physics, 1995, 28, 2083-2088.	1.3	59
57	Physical phenomena in a coplanar macroscopic plasma display cell I. Infrared and visible emission. Journal of Applied Physics, 2002, 91, 992-999.	1.1	59
58	Physics and modelling of microwave streamers at atmospheric pressure. Journal of Applied Physics, 2011, 110, .	1.1	58
59	Physics of a magnetic filter for negative ion sources. II. Eâ€‰Ã—â€‰B drift through the filter in a real geometry. Physics of Plasmas, 2012, 19, .	0.7	57
60	Positive and negative sawtooth signals applied to a DBD plasma actuator â€“ influence on the electric wind. Journal of Electrostatics, 2009, 67, 140-145.	1.0	54
61	Expanding sheath in a bounded plasma in the context of the post-arc phase of a vacuum arc. Journal Physics D: Applied Physics, 2008, 41, 015203.	1.3	53
62	Physics of a magnetic filter for negative ion sources. I. Collisional transport across the filter in an ideal, 1D filter. Physics of Plasmas, 2012, 19, .	0.7	53
63	Large-gap AC coplanar plasma display cells: macro-cell experiments and 3-D simulations. IEEE Transactions on Plasma Science, 2003, 31, 422-428.	0.6	51
64	R&D around a photoneutralizer-based NBI system (Siphore) in view of a DEMO Tokamak steady state fusion reactor. Nuclear Fusion, 2015, 55, 123020.	1.6	50
65	Stochastic development of an electron avalanche. Physical Review A, 1986, 34, 440-449.	1.0	47
66	Hexagonal and honeycomb structures in Dielectric Barrier Discharges. EPJ Applied Physics, 2009, 47, 22808.	0.3	47
67	Hollow cathode modeling: I. A coupled plasma thermal two-dimensional model. Plasma Sources Science and Technology, 2017, 26, 055007.	1.3	47
68	Evidence of a new form of self-organization in DBD Plasmas: the quincunx structure. Journal Physics D: Applied Physics, 2011, 44, 262002.	1.3	46
69	2D radial-azimuthal particle-in-cell benchmark for E Ã— B discharges. Plasma Sources Science and Technology, 2021, 30, 075002.	1.3	44
70	ADI-FDTD modeling of microwave plasma discharges in air towards fully three-dimensional simulations. Computer Physics Communications, 2015, 195, 49-60.	3.0	43
71	Hybrid and particle-in-cell models of a stationary plasma thruster. Plasma Sources Science and Technology, 2000, 9, 219-226.	1.3	41
72	Modelling of a dipolar microwave plasma sustained by electron cyclotron resonance. Journal Physics D: Applied Physics, 2009, 42, 194019.	1.3	41

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73	Negative ion source development for a photoneutralization based neutral beam system for future fusion reactors. New Journal of Physics, 2016, 18, 125005.	1.2	39
74	Computation of Hall Thruster Performance. Journal of Propulsion and Power, 2001, 17, 772-779.	1.3	38
75	Anomalous conductivity and secondary electron emission in Hall effect thrusters. Journal of Applied Physics, 2006, 100, 123301.	1.1	38
76	Hollow cathode modeling: II. Physical analysis and parametric study. Plasma Sources Science and Technology, 2017, 26, 055008.	1.3	38
77	Triggered breakdown in lowâ€pressure hollow cathode (pseudospark) discharges. Journal of Applied Physics, 1995, 78, 77-89.	1.1	36
78	Reconfigurable electromagnetic band gap device using plasma as a localized tunable defect. Applied Physics Letters, 2010, 96, .	1.5	36
79	Issues in the understanding of negative ion extraction for fusion. Plasma Sources Science and Technology, 2016, 25, 045010.	1.3	36
80	Propagating double layers in electronegative plasmas. Physics of Plasmas, 2007, 14, 053508.	0.7	35
81	Physics of a magnetic barrier in low-temperature bounded plasmas: insight from particle-in-cell simulations. Plasma Sources Science and Technology, 2012, 21, 025002.	1.3	35
82	Calculated characteristics of an ac plasma display panel cell. IEEE Transactions on Plasma Science, 1996, 24, 95-96.	0.6	34
83	Role of positive ions on the surface production of negative ions in a fusion plasma reactor type negative ion sourceâ€"Insights from a three dimensional particle-in-cell Monte Carlo collisions model. Physics of Plasmas, 2013, 20, .	0.7	34
84	Transient current and sheath motion following the photoelectron-initiated avalanche in dc glow discharges. Physical Review A, 1989, 40, 5208-5219.	1.0	33
85	Formation and stabilisation of single current filaments in planar dielectric barrier discharge. European Physical Journal D, 2007, 44, 133-139.	0.6	33
86	An asynchronous scheme with local time stepping for multi-scale transport problems: Application to gas discharges. Journal of Computational Physics, 2007, 227, 898-918.	1.9	32
87	Study of efficacy in a mercury-free flat discharge fluorescent lamp using a zero-dimensional positive column model. Journal Physics D: Applied Physics, 2003, 36, 512-521.	1.3	31
88	Gas heating effects on the formation and propagation of a microwave streamer in air. Journal of Applied Physics, 2015, 118, .	1.1	31
89	Plasma particle interactions. Plasma Sources Science and Technology, 1994, 3, 407-417.	1.3	30
90	Electrohydrodynamic force and scaling laws in surface dielectric barrier discharges. Applied Physics Letters, 2007, 90, 051502.	1.5	30

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91	Chemical kinetics of low pressure high density hydrogen plasmas: application to negative ion sources for ITER. Plasma Sources Science and Technology, 2014, 23, 065032.	1.3	30
92	Rotating Spokes, Ionization Instability, and Electron Vortices in Partially Magnetized EÃ—B Plasmas. Physical Review Letters, 2020, 124, 185005.	2.9	30
93	Properties of plasmas generated in microdischarges. Plasma Physics and Controlled Fusion, 2006, 48, B391-B397.	0.9	29
94	Sheath expansion and plasma dynamics in the presence of electrode evaporation: Application to a vacuum circuit breaker. Journal of Applied Physics, 2009, 106, .	1.1	29
95	Particle-in-cell with Monte Carlo collision modeling of the electron and negative hydrogen ion transport across a localized transverse magnetic field. Physics of Plasmas, 2009, 16, .	0.7	29
96	Empirical electron cross-field mobility in a Hall effect thruster. Applied Physics Letters, 2009, 95, .	1.5	29
97	Spontaneous oscillations in a Hall thruster. IEEE Transactions on Plasma Science, 1999, 27, 98-99.	0.6	28
98	Modeling a high power fusion plasma reactor-type ion source: Applicability of particle methods. Physics of Plasmas, 2012, 19, .	0.7	28
99	Singlet oxygen production in a microcathode sustained discharge. Applied Physics Letters, 2007, 90, 031501.	1.5	27
100	Plasma asymmetry due to the magnetic filter in fusion-type negative ion sources: Comparisons between two and three-dimensional particle-in-cell simulations. Physics of Plasmas, 2014, 21, .	0.7	27
101	Monte Carlo simulation of electron swarm motion in SF6. Journal Physics D: Applied Physics, 1984, 17, 1133-1148.	1.3	26
102	EHD Force in Dielectric Barrier Discharges Parametric Study and Influence of Negative Ions. , 2007, , .		26
103	Modeling of breakdown during the post-arc phase of a vacuum circuit breaker. Plasma Sources Science and Technology, 2010, 19, 065020.	1.3	26
104	Analytical formulation of ionization source term for discharge models in argon, helium, nitrogen, and silane. Journal of Applied Physics, 1992, 72, 4533-4537.	1.1	24
105	Ion and neutral energy distributions to the MgO surface and sputtering rates in plasma display panel cells. IEEE Transactions on Plasma Science, 2006, 34, 351-359.	0.6	24
106	Two-Dimensional Simulation of the Post-Arc Phase of a Vacuum Circuit Breaker. IEEE Transactions on Plasma Science, 2008, 36, 1046-1047.	0.6	24
107	Physics and modeling of an end-Hall (gridless) ion source. Journal of Applied Physics, 2011, 109, .	1.1	24
108	Appropriate use of the particle-in-cell method in low temperature plasmas: Application to the simulation of negative ion extraction. Journal of Applied Physics, 2016, 120, .	1.1	24

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109	Modeling of the plasma jet of a stationary plasma thruster. Journal of Applied Physics, 2002, 91, 9521.	1.1	23
110	Method to obtain the electric field and the ionization frequency from laser induced fluorescence measurements. Plasma Sources Science and Technology, 2009, 18, 034008.	1.3	23
111	Physical investigations and developments of Hall plasma thrusters. Plasma Physics and Controlled Fusion, 2004, 46, B407-B421.	0.9	21
112	Three-dimensional modeling of a negative ion source with a magnetic filter: impact of biasing the plasma electrode on the plasma asymmetry. Plasma Sources Science and Technology, 2015, 24, 055001.	1.3	21
113	Modeling of negative ion extraction from a magnetized plasma source: Derivation of scaling laws and description of the origins of aberrations in the ion beam. Physics of Plasmas, 2018, 25, 023510.	0.7	21
114	Space and time dependence of the electric field and plasma induced emission in transient and steady-state hollow cathode discharges. Physical Review E, 1994, 50, 2239-2252.	0.8	20
115	A better understanding of microcathode sustained discharges. Plasma Physics and Controlled Fusion, 2007, 49, B233-B238.	0.9	20
116	Micro instabilities and rotating spokes in the near-anode region of partially magnetized plasmas. Physics of Plasmas, 2019, 26, 072113.	0.7	19
117	Fundamental Properties of RF Glow Discharges: An Approach Based on Selfâ€"Consistent Numerical Models. NATO ASI Series Series B: Physics, 1990, , 155-186.	0.2	18
118	Electron transport in stationary plasma thrusters. Transport Theory and Statistical Physics, 1998, 27, 203-221.	0.4	18
119	Modelling of Stationary Plasma Thrusters. Contributions To Plasma Physics, 2004, 44, 529-535.	0.5	18
120	One-dimensional simulation of an ion beam generated by a current-free double-Layer. IEEE Transactions on Plasma Science, 2005, 33, 334-335.	0.6	18
121	Experimental protocol and critical assessment of the Pockels method for the measurement of surface charging in a dielectric barrier discharge. Journal Physics D: Applied Physics, 2008, 41, 135204.	1.3	18
122	Particle-In-Cell Monte Carlo Collision Model on GPUâ€"Application to a Low-Temperature Magnetized Plasma. IEEE Transactions on Plasma Science, 2013, 41, 391-399.	0.6	17
123	Physical phenomena in a coplanar macroscopic plasma display cell. II. Comparisons between experiments and models. Journal of Applied Physics, 2002, 91, 1000-1007.	1.1	16
124	Efficiency of AC plasma display panels from diagnostics and models. Applied Surface Science, 2002, 192, 299-308.	3.1	16
125	Model analysis of a double-stage Hall effect thruster with double-peaked magnetic field and intermediate electrode. Physics of Plasmas, 2007, 14, 113502.	0.7	16
126	Plasma fluid modeling of microwave streamers: Approximations and accuracy. Physics of Plasmas, 2017, 24, 113517.	0.7	16

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127	The breakdown and glow phases during the initiation of discharges for lamps. Journal of Applied Physics, 1997, 82, 112-119.	1.1	15
128	Numerical simulation of electron transport in the channel region of a stationary plasma thruster. Plasma Sources Science and Technology, 2002, 11, 104-114.	1.3	15
129	Large gap plasma display cell with auxiliary electrodes: macro-cell experiments and two-dimensional modelling. Journal Physics D: Applied Physics, 2003, 36, 1959-1966.	1.3	15
130	New insights into the physics of rotating spokes in partially magnetized EÃ—B plasmas. Physics of Plasmas, 2020, 27, .	0.7	15
131	Flexible variable-specific-impulse electric propulsion systems for planetary missions. Acta Astronautica, 2006, 59, 931-945.	1.7	14
132	Modeling of an advanced concept of a double stage Hall effect thruster. Physics of Plasmas, 2008, 15, .	0.7	14
133	Multi-scale gas discharge simulations using asynchronous adaptive mesh refinement. Computer Physics Communications, 2010, 181, 247-258.	3.0	14
134	A self-consistent one-dimensional model for He nonequilibrium kinetics in RF discharges. Plasma Chemistry and Plasma Processing, 1993, 13, 499-519.	1.1	13
135	Optimized atom injection in a Hall effect thruster. Applied Physics Letters, 2004, 85, 5460-5462.	1.5	13
136	Modeling of double stage Hall effect thruster. IEEE Transactions on Plasma Science, 2005, 33, 522-523.	0.6	13
137	New Insights in the Physics of DBD Plasma Actuators for Flow Control. , 2008, , .		13
138	Simulations of a Miniaturized Cylindrical Hall Thruster. IEEE Transactions on Plasma Science, 2008, 36, 2034-2042.	0.6	13
139	Negative ion extraction via particle simulation for fusion: critical assessment of recent contributions. Nuclear Fusion, 2017, 57, 014003.	1.6	13
140	Ionization waves (striations) in a low-current plasma column revisited with kinetic and fluid models. Physics of Plasmas, 2022, 29, .	0.7	12
141	Preliminary results of the experimental and simulated intrinsic properties of the Compteur A Trou (CAT) detector: behavior with synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 426, 339-355.	0.7	11
142	Simulation of plasma sheath dynamics in vacuum circuit breakers. , 0, , .		11
143	Calculated characteristics of radio-frequency plasma display panel cells including the influence of xenon metastables. Journal of Applied Physics, 2002, 92, 6990-6997.	1.1	11
144	Ignition of Microcathode Sustained Discharge. IEEE Transactions on Plasma Science, 2008, 36, 1236-1237.	0.6	11

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145	Global visualization of powder trapping in capacitive RF plasmas by two-dimensional laser scattering. IEEE Transactions on Plasma Science, 1996, 24, 101-102.	0.6	10
146	Imaging of a macroscopic plasma display panel cell. IEEE Transactions on Plasma Science, 2002, 30, 186-187.	0.6	10
147	Performance Modeling of a Thrust Vectoring Device for Hall Effect Thrusters. Journal of Propulsion and Power, 2009, 25, 1003-1012.	1.3	10
148	Finite Volume Time Domain modelling of microwave breakdown and plasma formation in a metallic aperture. Computer Physics Communications, 2012, 183, 1634-1640.	3.0	10
149	Preface to Special Topic: Modern issues and applications of Eâ€‰Ã—â€‰B plasmas. Physics of Plasmas, 2018, 25, 061001.	0.7	10
150	Simulating Large-Area Plasma Displays. Europhysics News, 1996, 27, 46-49.	0.1	9
151	Modeling the effect of the cathode geometry in a DC glow discharge ion source for mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1997, 52, 531-536.	1.5	9
152	Discharge characteristics in plasma display cell at high frequency. Chinese Physics B, 2004, 13, 1907-1912.	1.3	9
153	Microhollow cathode sustained discharges: comparative studies in micro- and equivalent macro-cell geometries. European Physical Journal D, 2010, 60, 581-587.	0.6	9
154	ID-HALL, a new double stage Hall thruster design. I. Principle and hybrid model of ID-HALL. Physics of Plasmas, 2018, 25, .	0.7	9
155	Modelling of discharges and non-thermal plasmasâ€”applications to plasma processing. Surface and Coatings Technology, 1993, 59, 32-40.	2.2	8
156	Numerical study of the characteristics of the ion and fast atom beams in an end-Hall ion source. Journal of Applied Physics, 2012, 112, .	1.1	7
157	Modelling non-thermal plasmas generated in glow discharges. Pure and Applied Chemistry, 1999, 71, 1837-1844.	0.9	6
158	Plasma decay modeling during the post-arc phase of a vacuum circuit breaker. , 2008, , .		6
159	Special Issue on Plasma Propulsion. IEEE Transactions on Plasma Science, 2008, 36, 1962-1966.	0.6	6
160	Radiofrequency Discharge Modeling. Materials Research Society Symposia Proceedings, 1989, 165, 17.	0.1	5
161	Fluid and Hybrid Models of Non Equilibrium Discharges. , 1997, , 291-319.		5
162	Effects of pressure and incident power on self-organization pattern structure during microwave breakdown in high pressure air. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 235202.	0.2	5

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163	Magnetic cusp confinement in low-Î² plasmas revisited. Physics of Plasmas, 2020, 27, .	0.7	5
164	User-friendly Boltzmann code for electrons in weakly ionized gases. , 0, , .		4
165	Post-arc period of vacuum circuit breakers: New 2D simulation and experimental results. , 2010, , .		4
166	E Ã— B electron drift current across the aperture of an ion source surrounded by a cusped magnetic field profile. Physics of Plasmas, 2020, 27, .	0.7	4
167	Self-Consistent Models of DC and Transient Glow Discharges. NATO ASI Series Series B: Physics, 1990, , 255-275.	0.2	4
168	Experimental investigations of glow discharges in hollow cathode geometries at low pressure. IEEE Transactions on Plasma Science, 2005, 33, 384-385.	0.6	3
169	Modeling of Dielectric Barrier Discharge and Coupling with Computational Fluid Dynamics. , 2008, , .		3
170	Calculation Of A Micro Discharge Energy Balance With PIC-MCC Method. AIP Conference Proceedings, 2008, , .	0.3	3
171	Electron Trajectories in a Hall Effect Thruster Anomalous Transport Induced by an Azimuthal Wave. IEEE Transactions on Plasma Science, 2008, 36, 1212-1213.	0.6	3
172	Developpment of a hybrid MPI/OpenMP massivelly parallel 3D particle-in-cell model of a magnetized plasma source. , 2015, , .		3
173	ID-HALL, a new double stage Hall thruster design. II. Experimental characterization of the inductive ionization source. Physics of Plasmas, 2018, 25, .	0.7	3
174	Experimental characterization of ID-Hall, a double stage Hall thruster with an inductive ionization stage. Physics of Plasmas, 2020, 27, 023518.	0.7	3
175	A MACROSCOPIC MODEL OF ELECTRON SWARM MOTION IN NON-EQUILIBRIUM REGIONS. , 1987, , 34-39.		3
176	Space-Time Plasma-Steering Source: Control of Microwave Plasmas in Overmoded Cavities. Physical Review Applied, 2021, 16, .	1.5	3
177	Microscopic Calculation of the Gas Gain in Cylindrical Proportional Counters. Radiation Protection Dosimetry, 1989, 29, 23-30.	0.4	3
178	Self consistent low pressure RF (radiant flux) discharge modelling: Comparisons with experiments in clean and dusty plasmas. Pure and Applied Chemistry, 1994, 66, 1363-1372.	0.9	2
179	Modeling the breakdown and glow phases during the ignition of HID lamps. , 0, , .		2
180	Improvement of PDP discharge efficiency based on macro-cell studies. Journal of the Society for Information Display, 2003, 11, 551.	0.8	2

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181	Numerical Modeling of an End-Hall Ion Source. Advanced Materials Research, 0, 227, 144-147.	0.3	2
182	Reply to Comment on â€˜Issues in the understanding of negative ion extraction for fusionâ€™. Plasma Sources Science and Technology, 2017, 26, 058002.	1.3	2
183	A Multiscale Approach Using Patches of Finite Elements for Solving Wave Propagation Problems in Microwave Discharge Plasma. Frontiers in Physics, 2019, 7, .	1.0	2
184	Theoretical and experimental study of pseudospark electron beam generation. , 0, , .		1
185	Two-dimensional Model Of Stationary Plasma Thruster. , 0, , .		1
186	Electron Beam Generation During The Hollow Cathode Phase Of Pseudospark Operation. , 0, , .		1
187	Understanding the conductivity in ion propulsion devices. , 0, , .		1
188	Physics of a PDP discharge cell-improvement of luminance and luminous efficiency. , 0, , .		1
189	Guest Editorial Special Issue on Plasma Display Panels. IEEE Transactions on Plasma Science, 2006, 34, 266-267.	0.6	1
190	Modeling of an Inductive Negative Ion Source for Neutral Beam Injection. AIP Conference Proceedings, 2008, , .	0.3	1
191	Role of positive ions on the surface production of negative ions in a fusion plasma reactor type negative ion source—Insights from a 3D Particle-In-Cell Monte Carlo Collisions model. , 2014, , .		1
192	Discharge Modeling. , 1987, , 369-384.		1
193	PhÃ©nomÃ¨nes dâ€™auto-organisation dans les plasmas froids hors Ã©quilibre. , 2013, , 16-21.	0.1	1
194	Non-Equilibrium Effects in the Initiation of Pseudospark Discharges. , 1991, , 109-120.		1
195	Modelling of the Electron and Ion Kinetics in Cylindrical Proportional Counters. Radiation Protection Dosimetry, 1990, 31, 107-118.	0.4	1
196	Plasmoid Formation And Expansion In A Microwave Field. , 0, , .		0
197	Two-dimensional modeling of a glow discharge source for mass spectrometry. , 0, , .		0
198	Parametric studies of AC plasma display panel cells in complex geometries. , 0, , .		0

#	Article	IF	Citations
199	Space and time evolution of the plasma in a PDP cell: Comparisons between simulations and experiments. Journal of the Society for Information Display, 2001, 9, 273.	0.8	0
200	Modeling of a Magnetized Plasma: The Stationary Plasma Thruster. , 2002, , 85-100.		0
201	Numerical modelling of plasma for flow control in aerospace applications. , 2012, , .		0
202	Numerical Simulation of Plasma Actuators for Flow Control. , 2013, , .		0
203	Plasma properties of the cybele negative ion source for fusion applications: PIC simulations and experiments. , 2015, , .		0
204	Collisionless electron heating in a surface-wave discharge. , 2015, , .		0
205	Gas heating and shockwave effects on microwave streamer development in atmospheric pressure air. , 2015, , .		0
206	Hollow cathodes for hall thrusters: Modelling and scaling trends. , 2015, , .		0
207	Characterization of negative ion beam extracted from a negative ion source with a particle-in-cell model. , 2015, , .		0
208	Measurements of the Space and Time Evolution of the Surface Charge in a Dielectric Barrier Discharge Â– Comparisons with Results from Simulations. , 2007, , .		0
209	Non-Equilibrium Electron Transport: A Brief Overview. , 1990, , 1-9.		0
210	Power Deposition in Low Pressure, Capacitively Coupled RF Discharges. NATO ASI Series Series B: Physics, 1993, , 359-378.	0.2	0
211	Les sources dâ€™ions nÃ©gatifs pour le chauffage par injection dâ€™atomes Ã haute Ã©nergie dans les plasmas de fusion. , 2014, , 15-19.	0.1	0
212	Missions du futur et nouveaux concepts en propulsion plasma. , 2021, , 24-30.	0.1	0
213	Ionization Waves (Striations) in a Low-Current Plasma Column Revisited. , 2022, , .		0
214	Rotating Spokes in Low Temperature ExB Plasmas. , 2022, , .		0