

Wei Jiang

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Collisionless Bounce Resonance Heating in Dual-Frequency Capacitively Coupled Plasmas. <i>Physical Review Letters</i> , 2011, 107, 055002.	7.8	101
2	Implicit and electrostatic particle-in-cell/Monte Carlo model in two-dimensional and axisymmetric geometry: I. Analysis of numerical techniques. <i>Plasma Sources Science and Technology</i> , 2010, 19, 045023.	3.1	74
3	Heating mechanisms and particle flow balancing of capacitively coupled plasmas driven by combined dc/rf sources. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	58
4	Implicit and electrostatic particle-in-cell/Monte Carlo model in two-dimensional and axisymmetric geometry: II. Self-bias voltage effects in capacitively coupled plasmas. <i>Plasma Sources Science and Technology</i> , 2011, 20, 035013.	3.1	53
5	Two-dimensional particle-in cell/Monte Carlo simulations of a packed-bed dielectric barrier discharge in air at atmospheric pressure. <i>New Journal of Physics</i> , 2015, 17, 083056.	2.9	44
6	Numerical simulations of electrical asymmetry effect on electronegative plasmas in capacitively coupled rf discharge. <i>Journal of Applied Physics</i> , 2011, 109, 013308.	2.5	41
7	A brief review of dual-frequency capacitively coupled discharges. <i>Current Applied Physics</i> , 2011, 11, S2-S8.	2.4	35
8	Magnetical asymmetry effect in capacitively coupled plasmas: effects of the magnetic field gradient, pressure, and gap length. <i>Plasma Sources Science and Technology</i> , 2018, 27, 035008.	3.1	34
9	Magnetical asymmetric effect in geometrically and electrically symmetric capacitively coupled plasma. <i>Plasma Processes and Polymers</i> , 2017, 14, 1700087.	3.0	32
10	Separate control between geometrical and electrical asymmetry effects in capacitively coupled plasmas. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 305203.	2.8	30
11	Electrical breakdown in dual-frequency capacitively coupled plasma: a collective simulation. <i>Plasma Sources Science and Technology</i> , 2021, 30, 065029.	3.1	27
12	A time-dependent analytical sheath model for dual-frequency capacitively coupled plasma. <i>Physics of Plasmas</i> , 2006, 13, 113502.	1.9	25
13	Numerical characterization of magnetized capacitively coupled argon plasmas driven by combined dc/rf sources. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	22
14	Kinetic simulation of direct-current driven microdischarges in argon at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 435201.	2.8	19
15	Electrical asymmetry effects in magnetized capacitively coupled plasmas in argon. <i>Plasma Sources Science and Technology</i> , 2017, 26, 065011.	3.1	19
16	On the energy conservation electrostatic particle-in-cell/Monte Carlo simulation: Benchmark and application to the radio frequency discharges. <i>Chinese Physics B</i> , 2014, 23, 035204.	1.4	18
17	Numerical modeling of tokamak breakdown phase driven by pure Ohmic heating under ideal conditions. <i>Nuclear Fusion</i> , 2016, 56, 126017.	3.5	18
18	Implicit electrostatic particle-in-cell/Monte Carlo simulation for the magnetized plasma: Algorithms and application in gas-inductive breakdown. <i>Chinese Physics B</i> , 2015, 24, 065207.	1.4	16

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19	Impact of different packing beads methods for streamer generation and propagation in packed-bed dielectric barrier discharge. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 185202.	2.8	16
20	Particle-in-cell and Monte Carlo collision simulations of the cathode sheath in an atmospheric direct-current arc discharge. <i>Plasma Sources Science and Technology</i> , 2016, 25, 05LT01.	3.1	14
21	Quantum hydrodynamic modeling of edge modes in chiral Berry plasmons. <i>Physical Review B</i> , 2017, 96, .	3.2	14
22	Valley-polarized edge pseudomagnetoplasmons in graphene: A two-component hydrodynamic model. <i>Physical Review B</i> , 2018, 97, .	3.2	14
23	On the breakdown modes and parameter space of ohmic tokamak start-up. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	14
24	Enhancement of surface discharge in catalyst pores in dielectric barrier discharges. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	14
25	Surface-charging effect of capacitively coupled plasmas driven by combined dc/rf sources. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 287-292.	2.1	13
26	Kinetic analysis of direct-current driven microdischarges with thermo-field electron emission at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 455201.	2.8	13
27	Numerical characterization of local electrical breakdown in sub-micrometer metallized film capacitors. <i>New Journal of Physics</i> , 2014, 16, 113036.	2.9	12
28	Electron energy probability function modulation with external electron beam in capacitive coupled radio frequency discharges. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700169.	3.0	10
29	Electron kinetics in capacitively coupled plasmas modulated by electron injection. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	9
30	Self-consistent simulation of the impedance matching network for single frequency capacitively coupled plasma. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 165201.	2.8	9
31	Stopping power of two-dimensional spin quantum electron gases. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 349, 72-78.	1.4	7
32	Numerical characterization of plasma breakdown in reversed field pinches. <i>Nuclear Fusion</i> , 2018, 58, 026007.	3.5	7
33	Pseudomagnetic field modulation of stopping power for a charged particle moving above graphene. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	7
34	Computational characterization of electron-beam-sustained plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	7
35	Computational analysis of direct current breakdown process in SF6 at low pressure. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 445201.	2.8	7
36	Numerical characterization of breakdown process of dc-driven micro-discharge sustained by thermionic emission. <i>Journal Physics D: Applied Physics</i> , 0, , .	2.8	7

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37	The effects of match circuit on the breakdown process of capacitively coupled plasma driven by radio frequency. <i>Journal of Applied Physics</i> , 2022, 131, 153301.	2.5	6
38	Implicit Temporal Discretization and Exact Energy Conservation for Particle Methods Applied to the Poisson-Boltzmann Equation. <i>Plasma</i> , 2018, 1, 242-258.	1.8	5
39	How bead shapes affect the plasma streamer characteristics in packed-bed dielectric barrier discharges: a kinetic modeling study. <i>Plasma Science and Technology</i> , 2020, 22, 034013.	1.5	5
40	Discharge Enhancement Phenomenon and Streamer Control in Dielectric Barrier Discharge with Many Pores. <i>Catalysts</i> , 2020, 10, 68.	3.5	5
41	On the breakdown process of capacitively coupled plasma in carbon tetrafluoride. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 255203.	2.8	5
42	Enhancement of valley polarization in graphene with an irradiating charged particle. <i>Physics of Plasmas</i> , 2019, 26, 012102.	1.9	4
43	Note on the energy transport in capacitively coupled plasmas. <i>Plasma Sources Science and Technology</i> , 2022, 31, 047001.	3.1	4
44	Computational study of microdischarges driven by electron beam injection with particle-in-cell/Monte Carlo collision simulations. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	4
45	Effect of Stern-Gerlach force on negative magnetoresistance and Hall resistance in spin-dependent viscous flow. <i>Physical Review B</i> , 2020, 102, .	3.2	3
46	High-frequency magnetotransport in a viscous electron fluid under a Stern-Gerlach force. <i>Physical Review B</i> , 2021, 104, .	3.2	3
47	Two-dimensional electromagnetic quantum-hydrodynamic simulations of isochoric heating of a solid target by proton beams. <i>Physics of Plasmas</i> , 2015, 22, 022701.	1.9	2
48	The influence of weak transverse magnetic field on plasma dissipation process in the post-arc phase in a vacuum interrupter. <i>Plasma Science and Technology</i> , 0, , .	1.5	1
49	Numerical characterization of capacitively coupled plasmas modulated by ion beam injection. <i>Plasma Sources Science and Technology</i> , 2022, 31, 045028.	3.1	1
50	Plasma density evolution in plasma opening switch obtained by a time-resolved sensitive He-Ne interferometer. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 442-446.	5.1	0
51	Influence Of Duty Cycle On Pulse Modulated Rf Capacitively-Coupled Argon Discharge. , 2017, , .		0
52	Stopping Power Modulation by Pump Waves of Charged Particles Moving above Two-Dimensional Electron Gases. <i>Laser and Particle Beams</i> , 2021, 2021, .	1.0	0
53	BCS-BEC crossover of ultracold ions driven by density-dependent short-range interactions in a quantum plasma. <i>Physical Review A</i> , 2021, 104, .	2.5	0
54	Effect of Viscosity on Stopping Power for a Charged Particle Moving above Two-Dimensional Electron Gas. <i>Laser and Particle Beams</i> , 2022, 2022, .	1.0	0