

Hae June Lee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161
papers

1,460
citations

18
h-index

30
g-index

199
ext. papers

1,732
ext. citations

2.5
avg, IF

4.66
L-index

#	Paper	IF	Citations
161	Degradation of adhesion molecules of G361 melanoma cells by a non-thermal atmospheric pressure microplasma. <i>New Journal of Physics</i> , 2009 , 11, 115026	2.9	137
160	Non-thermal atmospheric pressure plasma preferentially induces apoptosis in p53-mutated cancer cells by activating ROS stress-response pathways. <i>PLoS ONE</i> , 2014 , 9, e91947	3.7	126
159	Modelling of atmospheric pressure plasmas for biomedical applications. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 053001	3	59
158	Repetitive exposure to a 60-Hz time-varying magnetic field induces DNA double-strand breaks and apoptosis in human cells. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 400, 739-44	3.4	40
157	Antiapoptotic role of NF-kappaB in the auto-oxidized dopamine-induced apoptosis of PC12 cells. <i>Journal of Neurochemistry</i> , 2001 , 76, 602-9	6	40
156	Treatment with low-temperature atmospheric pressure plasma enhances cutaneous delivery of epidermal growth factor by regulating E-cadherin-mediated cell junctions. <i>Archives of Dermatological Research</i> , 2014 , 306, 635-43	3.3	35
155	Two-dimensional self-consistent radiation transport model for plasma display panels. <i>Physics of Plasmas</i> , 2002 , 9, 2822-2830	2.1	29
154	Skin renewal activity of non-thermal plasma through the activation of E-catenin in keratinocytes. <i>Scientific Reports</i> , 2017 , 7, 6146	4.9	27
153	Efficacy of nonthermal atmospheric pressure plasma for tooth bleaching. <i>Scientific World Journal, The</i> , 2015 , 2015, 581731	2.2	27
152	Non-Thermal Atmospheric Pressure Plasma Efficiently Promotes the Proliferation of Adipose Tissue-Derived Stem Cells by Activating NO-Response Pathways. <i>Scientific Reports</i> , 2016 , 6, 39298	4.9	27
151	Simulation of a positive column discharge with a one-dimensional radial radiation transport coupled particle-in-cell model. <i>Journal of Applied Physics</i> , 2001 , 90, 4957-4965	2.5	25
150	Non-thermal atmospheric pressure plasma is an excellent tool to activate proliferation in various mesoderm-derived human adult stem cells. <i>Free Radical Biology and Medicine</i> , 2019 , 134, 374-384	7.8	23
149	The Effects of a Micro plasma on Melanoma (G361) Cancer Cells. <i>Journal of the Korean Physical Society</i> , 2009 , 54, 628-632	0.6	23
148	Enhancement of high-energy ion generation by preplasmas in the interaction of an intense laser pulse with overdense plasmas. <i>Physics of Plasmas</i> , 2004 , 11, 1726-1729	2.1	22
147	Electro-optical characteristics of plasma display panel with Mg _{1-x} Si _x O protecting thin films deposited by an electron-beam evaporation method. <i>Applied Physics Letters</i> , 2006 , 89, 191501	3.4	21
146	Selective Killing of Melanoma Cells With Non-Thermal Atmospheric Pressure Plasma and p-FAK Antibody Conjugated Gold Nanoparticles. <i>International Journal of Medical Sciences</i> , 2017 , 14, 1101-1109	3.7	20
145	Targeting NEU Protein in Melanoma Cells with Non-Thermal Atmospheric Pressure Plasma and Gold Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 900-5	4	20

144	Inhibition of inflammatory reactions in 2,4-Dinitrochlorobenzene induced Nc/Nga atopic dermatitis mice by non-thermal plasma. <i>Scientific Reports</i> , 2016 , 6, 27376	4.9	18
143	A 60 Hz uniform electromagnetic field promotes human cell proliferation by decreasing intracellular reactive oxygen species levels. <i>PLoS ONE</i> , 2018 , 13, e0199753	3.7	18
142	Enhancement of the killing effect of low-temperature plasma on <i>Streptococcus mutans</i> by combined treatment with gold nanoparticles. <i>Journal of Nanobiotechnology</i> , 2014 , 12, 29	9.4	18
141	Requirements of Neutral Beam Source Regarding Gas Pressure and Neutral Angle for Nanoscale Etching. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 7261-7266	1.4	18
140	MMP9 processing of HSPB1 regulates tumor progression. <i>PLoS ONE</i> , 2014 , 9, e85509	3.7	18
139	The topical application of low-temperature argon plasma enhances the anti-inflammatory effect of Jaun-ointment on DNCB-induced NC/Nga mice. <i>BMC Complementary and Alternative Medicine</i> , 2017 , 17, 340	4.7	17
138	A radiation transport coupled particle-in-cell simulation. I. Description of the model. <i>Physics of Plasmas</i> , 2001 , 8, 3077-3088	2.1	17
137	Analysis of intermediate pressure SiH ₄ /He capacitively coupled plasma for deposition of an amorphous hydrogenated silicon film in consideration of thermal diffusion effects. <i>Plasma Sources Science and Technology</i> , 2017 , 26, 085003	3.5	16
136	Mode transition and nonlinear self-oscillations in the beam-driven collisional discharge plasma. <i>Physics of Plasmas</i> , 1998 , 5, 2878-2884	2.1	16
135	Comparative study of the Ar and He atmospheric pressure plasmas on E-cadherin protein regulation for plasma-mediated transdermal drug delivery. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 215401	3	15
134	Effect of electron Monte Carlo collisions on a hybrid simulation of a low-pressure capacitively coupled plasma. <i>Plasma Sources Science and Technology</i> , 2014 , 23, 065040	3.5	15
133	Performance characteristics according to the channel length and magnetic fields of cylindrical Hall thrusters. <i>Applied Physics Letters</i> , 2011 , 99, 131505	3.4	15
132	Non-thermal atmospheric pressure plasma induces epigenetic modifications that activate the expression of various cytokines and growth factors in human mesoderm-derived stem cells. <i>Free Radical Biology and Medicine</i> , 2020 , 148, 108-122	7.8	15
131	Effect of the annular region on the performance of a cylindrical Hall plasma thruster. <i>Physics of Plasmas</i> , 2013 , 20, 023507	2.1	14
130	Radial scale effect on the performance of low-power cylindrical Hall plasma thrusters. <i>Applied Physics Letters</i> , 2013 , 103, 133501	3.4	13
129	Properties of dielectric-barrier-free atmospheric pressure microplasma driven by submicrosecond dc pulse voltage. <i>Applied Physics Letters</i> , 2009 , 95, 061502	3.4	13
128	2D fluid model analysis for the effect of 3D gas flow on a capacitively coupled plasma deposition reactor. <i>Plasma Sources Science and Technology</i> , 2016 , 25, 035006	3.5	13
127	Increment of growth factors in mouse skin treated with non-thermal plasma. <i>International Journal of Medical Sciences</i> , 2018 , 15, 1203-1209	3.7	12

126	Observation of a high-energy tail in ion energy distribution in the cylindrical Hall thruster plasma. <i>Physics of Plasmas</i> , 2014 , 21, 103502	2.1	11
125	High efficacy plasma display panel with vertically raised bus electrodes. <i>Applied Physics Letters</i> , 2006 , 89, 181501	3.4	11
124	A universal characterization of nonlinear self-oscillation and chaos in various particle-wave-wall interactions. <i>Applied Physics Letters</i> , 1998 , 72, 1445-1447	3.4	11
123	Parametrization of nonlinear and chaotic oscillations in driven beam-plasma diodes. <i>Physical Review E</i> , 1998 , 58, 936-941	2.4	11
122	Anti-tumor effects of cold atmospheric pressure plasma on vestibular schwannoma demonstrate its feasibility as an intra-operative adjuvant treatment. <i>Free Radical Biology and Medicine</i> , 2018 , 115, 43-56	7.8	11
121	Plasma cupping induces VEGF expression in skin cells through nitric oxide-mediated activation of hypoxia inducible factor 1. <i>Scientific Reports</i> , 2019 , 9, 3821	4.9	10
120	Retention Improvement in Fluoride Application with Cold Atmospheric Plasma. <i>Journal of Dental Research</i> , 2018 , 97, 179-183	8.1	10
119	Combined effects of 60 Hz electromagnetic field exposure with various stress factors on cellular transformation in NIH3T3 cells. <i>Bioelectromagnetics</i> , 2012 , 33, 207-14	1.6	10
118	Time-varying magnetic fields of 60 Hz at 7 mT induce DNA double-strand breaks and activate DNA damage checkpoints without apoptosis. <i>Bioelectromagnetics</i> , 2012 , 33, 383-93	1.6	10
117	The Effects of Electrode Structures on the Luminous Efficacy of Micro Dielectric Barrier Discharges. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 1572-1580	1.3	10
116	The effects of permittivity and thickness of dielectric layers on micro dielectric barrier discharges. <i>Thin Solid Films</i> , 2010 , 518, 3037-3041	2.2	10
115	Modeling and Simulation of a Large-Area Plasma Source. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 5714-5723	1.4	10
114	Characteristics of pulse compression in laser pulse amplification by stimulated Raman backscattering. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 314, 464-471	2.3	10
113	Non-modal analysis of the diocotron instability for cylindrical geometry with conducting boundary. <i>Physics of Plasmas</i> , 2014 , 21, 052105	2.1	9
112	Ion-temperature-gradient sensitivity of the hydrodynamic instability caused by shear in the magnetic-field-aligned plasma flow. <i>Physics of Plasmas</i> , 2014 , 21, 072117	2.1	9
111	. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 3819-3824	1.3	9
110	Non-modal analysis of the diocotron instability: Cylindrical geometry. <i>Physics of Plasmas</i> , 2013 , 20, 042101	1.1	9
109	The effect of Fe-doped magnesium oxide thin film in alternative current plasma display panel. <i>Thin Solid Films</i> , 2009 , 517, 4152-4155	2.2	9

108	Discharge characteristics of a plasma display panel with hump-shape electrodes. <i>Thin Solid Films</i> , 2010 , 518, 3122-3125	2.2	9
107	Ion beam generation from sheath field of grid electrode and its application to surface treatment. <i>Journal of Applied Physics</i> , 2006 , 100, 123303	2.5	9
106	The effect of a Si-doped protective layer on the discharge characteristics of an alternating current plasma display panel. <i>Physics of Plasmas</i> , 2007 , 14, 103505	2.1	9
105	Evidence of a turbulent ExB mixing avalanche mechanism of gas breakdown in strongly magnetized systems. <i>Nature Communications</i> , 2018 , 9, 3523	17.4	9
104	Model description of a two-dimensional electrostatic particle-in-cell simulation parallelized with a graphics processing unit for plasma discharges. <i>Plasma Research Express</i> , 2019 , 1, 015016	1	8
103	Advanced PIC-MCC simulation for the investigation of step-ionization effect in intermediate-pressure capacitively coupled plasmas. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 104004 ³		8
102	Uniformity control of the deposition rate profile of a-Si:H film by gas velocity and temperature distributions in a capacitively coupled plasma reactor. <i>Journal of Applied Physics</i> , 2018 , 123, 113302	2.5	8
101	Numerical analysis of the effect of electrode spacing on deposition rate profiles in a capacitively coupled plasma reactor. <i>Plasma Sources Science and Technology</i> , 2016 , 25, 065006	3.5	8
100	Experimental observation and modified driving method to improve the high-temperature misfiring in AC PDP. <i>IEEE Transactions on Electron Devices</i> , 2004 , 51, 2026-2032	2.9	8
99	Control of the diocotron instability of a hollow electron beam with periodic dipole magnets. <i>Physics of Plasmas</i> , 2018 , 25, 011607	2.1	7
98	Fabrication of transparent conductive oxide-less dye-sensitized solar cells consisting of Ti electrodes by electron-beam evaporation process. <i>Thin Solid Films</i> , 2012 , 520, 2257-2260	2.2	7
97	Non-modal analysis of the diocotron instability: Plane geometry. <i>Physics of Plasmas</i> , 2012 , 19, 082112	2.1	7
96	Control of Vortex Merging Induced From Diocotron Instability Using Rotating-Wall Electric Fields. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2496-2497	1.3	7
95	Radiation transport coupled particle-in-cell simulation of low-pressure inductive discharges. <i>Physics of Plasmas</i> , 2002 , 9, 4804-4811	2.1	7
94	Selective Anti-Cancer Effects of Plasma-Activated Medium and Its High Efficacy with Cisplatin on Hepatocellular Carcinoma with Cancer Stem Cell Characteristics. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	7
93	Surface treatment of glass and poly(dimethylsiloxane) using atmospheric-pressure plasma jet and analysis of discharge characteristics. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 01AE06	1.4	6
92	Kinetic effects of E \parallel B sheared flow on the hydrodynamic drift instabilities. <i>Plasma Physics and Controlled Fusion</i> , 2013 , 55, 085018	2	6
91	. <i>IEEE Transactions on Plasma Science</i> , 2001 , 29, 911-920	1.3	6

90	A radiation transport coupled particle-in-cell simulation. II. Simulation results in a one-dimensional planar model. <i>Physics of Plasmas</i> , 2001 , 8, 3089-3095	2.1	6
89	. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 697-704	1.3	5
88	Images of Nanosecond Pulse-Driven Low Temperature Atmospheric Pressure Plasma Using Dielectric-Free Parallel Electrodes. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 970-971	1.3	5
87	Ion-beam-driven instabilities in bounded dusty plasmas. <i>IEEE Transactions on Plasma Science</i> , 1999 , 27, 1449-1453	1.3	5
86	Hydrophobic and Mechanical Characteristics of Hydrogenated Amorphous Carbon Films Synthesized by Linear Ar/CH ₄ Microwave Plasma. <i>Applied Science and Convergence Technology</i> , 2017 , 26, 34-41	0.8	5
85	Non-modal theory of the kinetic ion temperature gradient driven instability of plasma shear flows across the magnetic field. <i>Physics of Plasmas</i> , 2016 , 23, 062115	2.1	5
84	The ion kinetics at the wafer edge by the variation of geometry and permittivity of the focus ring in capacitively coupled discharges. <i>Journal of Applied Physics</i> , 2019 , 126, 233301	2.5	5
83	The stabilizing effect of a conducting boundary on the diocotron instability of nonneutral electron flow. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 935-940	0.6	4
82	The effect of negative ions from the target on thin film deposition in a direct current magnetron sputtering system. <i>Thin Solid Films</i> , 2015 , 587, 3-7	2.2	4
81	Safety of nonthermal atmospheric pressure plasma for tooth bleaching evaluated in terms of microhardness and mineral content. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 345402	3	4
80	Renormalized theory of ion temperature gradient instability of the magnetic-field-aligned plasma shear flow with hot ions. <i>Physics of Plasmas</i> , 2015 , 22, 102308	2.1	4
79	Control of the Nano-Particle Weight Ratio in Stainless Steel Micro and Nano Powders by Radio Frequency Plasma Treatment. <i>Metals</i> , 2015 , 5, 2058-2069	2.3	4
78	Characteristics of laser-produced plasmas in a gas filled chamber and in a gas jet by using a long pulse laser. <i>Journal of Applied Physics</i> , 2003 , 94, 5497-5503	2.5	4
77	Cold Atmospheric Pressure Plasma-Activated Medium Induces Selective Cell Death in Human Hepatocellular Carcinoma Cells Independently of Singlet Oxygen, Hydrogen Peroxide, Nitric Oxide and Nitrite/Nitrate. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
76	Drift-Alfven instabilities of a finite beta plasma shear flow along a magnetic field. <i>Physics of Plasmas</i> , 2016 , 23, 020701	2.1	4
75	Improved penetration of wild ginseng extracts into the skin using low-temperature atmospheric pressure plasma. <i>Plasma Sources Science and Technology</i> , 2018 , 27, 044001	3.5	3
74	Numerical analysis for optimization of the sidewall conditions in a capacitively coupled plasma deposition reactor. <i>Journal of Applied Physics</i> , 2019 , 126, 173301	2.5	3
73	Enhanced Long-Term Color Stability of Teeth Treated with Hydrogen Peroxide and Non-Thermal Atmospheric Pressure Plasma Jets. <i>Plasma Processes and Polymers</i> , 2014 , 11, 1010-1017	3.4	3

72	Effects of the wall boundary conditions of a showerhead plasma reactor on the uniformity control of RF plasma deposition. <i>Journal of Applied Physics</i> , 2017 , 122, 053301	2.5	3
71	Simulation of photons from plasmas for the applications to display devices. <i>Computer Physics Communications</i> , 2007 , 177, 106-107	4.2	3
70	X-ray Radiation Emitted from the Betatron Oscillation of Electrons in Laser Wakefields. <i>Journal of the Korean Physical Society</i> , 2010 , 56, 309-314	0.6	3
69	Surface Treatment of a Titanium Implant using a low Temperature Atmospheric Pressure Plasma Jet. <i>Applied Science and Convergence Technology</i> , 2016 , 25, 51-55	0.8	3
68	Numerical Modeling of Nano-powder Synthesis in a Radio-Frequency Inductively Coupled Plasma Torch. <i>Applied Science and Convergence Technology</i> , 2018 , 27, 14-18	0.8	3
67	Numerical Analysis of the Incident ion Energy and Angle Distribution in the DC Magnetron Sputtering for the Variation of Gas Pressure. <i>Applied Science and Convergence Technology</i> , 2018 , 27, 19-22	0.8	3
66	Curved-boundary particle-in-cell simulation for the investigation of the target erosion effect of DC magnetron sputtering system. <i>AIP Advances</i> , 2020 , 10, 125224	1.5	3
65	The formation mechanism of nonuniformity from 2D nonlocal particle-dynamics in capacitive RF discharges. <i>Plasma Sources Science and Technology</i> ,	3.5	3
64	Drift-Alfven turbulence of a parallel shearing flow of the finite beta plasma with warm ions. <i>Physics of Plasmas</i> , 2016 , 23, 092301	2.1	3
63	Machine Learning Analysis for the Soliton Formation in Resonant Nonlinear Three-Wave Interactions. <i>Journal of the Korean Physical Society</i> , 2019 , 75, 909-916	0.6	3
62	Non-thermal atmospheric pressure plasma activates Wnt/ β -catenin signaling in dermal papilla cells. <i>Scientific Reports</i> , 2021 , 11, 16125	4.9	3
61	Drift-Alfven instabilities of a parallel shearing flow of the finite beta plasma with warm ions: The effect of the compressional magnetic field perturbations. <i>Physics of Plasmas</i> , 2017 , 24, 092122	2.1	2
60	Predicting Thermal Interruption Characteristics of a 72.5-kV CO ₂ Circuit Breaker. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 982-989	1.3	2
59	Analysis of energy relaxation kinetics for control of the electron energy distributions in capacitively coupled RF discharges. <i>Plasma Sources Science and Technology</i> , 2018 , 27, 04LT01	3.5	2
58	The ion cyclotron turbulence generated by a low frequency kinetic Alfvén wave and turbulent heating of ions. <i>Physics of Plasmas</i> , 2018 , 25, 012902	2.1	2
57	Nonlinear shearing modes approach to the diocotron instability of a planar electron strip. <i>Physics of Plasmas</i> , 2015 , 22, 092125	2.1	2
56	Discharge Images of a Dielectric-Barrier-Free Atmospheric-Pressure Microplasma Controlled by an External Ballast Capacitor. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2378-2379	1.3	2
55	Betatron Radiation of an Off-axis Injected Electron in a Laser Wakefield Accelerator. <i>Journal of the Optical Society of Korea</i> , 2009 , 13, 86-91		2

54	The Feasible Electrode Structure to High Speed Addressing on a Full High Definition Plasma Display Panel. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 1060-1062	1.4	2
53	P-98: The Effects of Si Doped MgO Protecting Layer in AC PDP. <i>Digest of Technical Papers SID International Symposium</i> , 2007 , 38, 573-576	0.5	2
52	Multi-dimensional electrostatic plasma simulations using the particle-in-cell method for the low-temperature plasmas for materials processing. <i>Journal of the Korean Physical Society</i> ,	0.6	2
51	Effects of 60-Hz Time-Varying Electric Fields on DNA Damage and Cell Viability Support Negligible Genotoxicity of the Electric Fields. <i>Journal of the Korean Institute of Electromagnetic Engineering and Science</i> , 2015 , 15, 134-141	2.3	2
50	Optical diagnostics of the characteristics of a square unipolar nanosecond pulse-driven atmospheric pressure helium plasma jet. <i>AIP Advances</i> , 2020 , 10, 125218	1.5	2
49	Plasma Medicine: How can Nonthermal Atmospheric Plasma be Applied to Medicine?. <i>Journal of Life Science</i> , 2013 , 23, 838-846		2
48	The ion cyclotron parametric instabilities and the anomalous heating of ions in the tokamak edge plasma in the fast wave heating regime. <i>Physics of Plasmas</i> , 2020 , 27, 052508	2.1	1
47	Nonmodal modified Simon-Hoh instability of a plasma with a shearing Hall current. <i>Physics of Plasmas</i> , 2018 , 25, 080702	2.1	1
46	The electromagnetic ion cyclotron instabilities of a plasma with parallel sheared current. <i>Physics of Plasmas</i> , 2019 , 26, 072104	2.1	1
45	The temporal evolution of the drift-cyclotron instability and anomalous ion heating in plasmas with transverse inhomogeneous electric field. <i>Physics of Plasmas</i> , 2017 , 24, 042114	2.1	1
44	The effects of total gas pressure and Xe partial pressure on the properties of plasma display panels with two-opposite-electrode cells. <i>Plasma Sources Science and Technology</i> , 2014 , 23, 025018	3.5	1
43	Development of a pulse driven micro-electrical discharge machining for micro-hole boring 2009 ,		1
42	Observation of Plasma Bullet Propagation in Atmospheric-Pressure Dielectric Barrier Discharge With Coaxial Electrode. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2344-2345	1.3	1
41	Effects of particle trapping and velocity slippage on beam-plasma interactions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998 , 247, 313-318	2.3	1
40	Power Deposition Profiles in Magnetized Inductively Coupled Plasma. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1394-1395	1.3	1
39	Ray-Trace Calculation of Visible Lights Emitted From a Display Device Utilizing Ultraviolet Lights From Gaseous Discharges. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1186-1187	1.3	1
38	P-92: Three-Dimensional Fluid Simulation of an ITO-less PDP Cell. <i>Digest of Technical Papers SID International Symposium</i> , 2007 , 38, 546-548	0.5	1
37	Analysis of collisional sheath structure in an argon DC discharge. <i>IEEE Transactions on Plasma Science</i> , 2003 , 31, 1032-1037	1.3	1

36	P-86: Influences of Gas Mixing Ratio on the Characteristics of Plasma Display Panel in He-Ne-Xe Gas System. <i>Digest of Technical Papers SID International Symposium</i> , 2005 , 36, 619	0.5	1
35	Magneto-photoluminescence of acceptors near the interfaces of Al _x Ga _{1-x} As/AlyGa _{1-y} As heterostructures. <i>Journal of Applied Physics</i> , 1995 , 78, 1975-1979	2.5	1
34	Kinetic Analysis of Electrode Heating Effects in a Torr-Regime Capacitively Coupled Plasma Reactor: 2-D Particle-in-Cell Simulation Study. <i>IEEE Transactions on Plasma Science</i> , 2022 , 1-10	1.3	1
33	Thermal Recovery Characteristics of a CO ₂ Mixture Gas Circuit Breaker. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 969-973	1.4	1
32	Investigation of the Driving Frequency Effect on the RF-Driven Atmospheric Pressure Micro Dielectric Barrier Discharges. <i>Applied Science and Convergence Technology</i> , 2017 , 26, 74-78	0.8	1
31	Ion Electrical and Optical Diagnostics of an Atmospheric Pressure Plasma Jet. <i>Applied Science and Convergence Technology</i> , 2015 , 24, 16-21	0.8	1
30	The ion-acoustic instability of the inductively coupled plasma driven by the ponderomotive electron current formed in the skin layer. <i>Physics of Plasmas</i> , 2020 , 27, 072102	2.1	1
29	The inhomogeneous ion temperature anisotropy instabilities of magnetic-field-aligned plasma sheared flow. <i>Physics of Plasmas</i> , 2016 , 23, 112122	2.1	1
28	Polymerdimethylsiloxane surface treatment with an atmospheric pressure helium plasma jet driven by unipolar nanosecond pulses. <i>Current Applied Physics</i> , 2021 , 29, 9-17	2.6	1
27	Effects of Quenching Gas Feeding on Silver Nanoparticle Synthesis by the Inductively Coupled Plasma Torch. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 4022-4033	1.3	1
26	Diagnosis of an atmospheric pressure plasma jet using a single dielectric barrier discharge. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 950-953	0.6	0
25	Spatiotemporally Resolved Emission Images of Facing Discharge and Surface Discharge Type Plasma Display Panel. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1184-1185	1.3	0
24	The combined kinetic effects of the ion temperature gradient and the velocity shear of a plasma flow parallel to the magnetic field on the drift-Alfven instabilities. <i>Physics of Plasmas</i> , 2020 , 27, 112103	2.1	0
23	Ion cyclotron parametric turbulence and anomalous convective transport of the inhomogeneous plasma in front of the fast wave antenna. <i>Physics of Plasmas</i> , 2021 , 28, 042304	2.1	0
22	Protective effects of non-thermal plasma on triethylene glycol dimethacrylate-induced damage in odontoblast-like MDPC-23 cells. <i>International Endodontic Journal</i> , 2021 , 54, 1548-1556	5.4	0
21	No-ozone cold plasma can kill oral pathogenic microbes in HO-dependent and independent manner.. <i>Scientific Reports</i> , 2022 , 12, 7597	4.9	0
20	The temporal evolution of the resistive pressure-gradient-driven turbulence and anomalous transport in shear flow across the magnetic field. <i>Physics of Plasmas</i> , 2017 , 24, 092113	2.1	
19	Guest Editorial Special Issue for Plenary, Invited, and Selected Papers From the 2018 Asia-Pacific Conference on Plasma and Terahertz Science. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 1885-1886	1.3	

18	2D fluid simulation of capacitively coupled plasma with cylindrical electrode for roll-to-roll processing. <i>Current Applied Physics</i> , 2015 , 15, 1287-1295	2.6
17	A Strong Instability in the Ion Cyclotron Frequency Range of the Upward Sheared Flow of the Oxygen Ions in Aurora. <i>Journal of the Korean Physical Society</i> , 2020 , 77, 936-939	0.6
16	Simulation of tokamak SOL and divertor region including heat flux mitigation by gas puffing. <i>Journal of the Korean Physical Society</i> , 2012 , 61, 387-396	0.6
15	Generation of coherent attosecond pulses from a nano-tube array illuminated by a high-power femtosecond laser. <i>New Journal of Physics</i> , 2013 , 15, 123017	2.9
14	51.3: Highly Reliable Modeling of AC Plasma Display Panels with a Three- Dimensional Hybrid Simulation. <i>Digest of Technical Papers SID International Symposium</i> , 2011 , 42, 748-751	0.5
13	Trace of Self-Injected Electron Bunches in a Laser Wakefield. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2924-2925	1.3
12	P-96: Discharge Characteristics of AC PDP with Fe Doped MgO Protective Layer. <i>Digest of Technical Papers SID International Symposium</i> , 2009 , 40, 1483	0.5
11	Analysis of Discharge Characteristics of Flat Fluorescent Lamps for a Large Area Backlight Unit using a Two-Dimensional Fluid Simulation. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 8553-8559	1.4
10	P-88: Study of Discharge for AC-PDP with Leaned Facing Electrode. <i>Digest of Technical Papers SID International Symposium</i> , 2007 , 38, 530-533	0.5
9	P-88: Improvement of Address Time by Asymmetric Sustain Electrode Structure in AC PDP. <i>Digest of Technical Papers SID International Symposium</i> , 2005 , 36, 626	0.5
8	Scutellariae Radix as a novel antibacterial herb targeting ppk (polyphosphatase) of Salmonella typhimurium. <i>Biochemical Society Transactions</i> , 2000 , 28, A194-A194	5.1
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