

# Chao Chang

## 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.

63

papers

1,019

citations

19

h-index

29

g-index

69

ext. papers

1,254

ext. citations

2.9

avg, IF

4.08

L-index

#	Paper	IF	Citations
63	Review of recent theories and experiments for improving high-power microwave window breakdown thresholds). <i>Physics of Plasmas</i> , <b>2011</b> , 18, 055702	2.1	101
62	The effect of grooved surface on dielectric multipactor. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 123305	2.5	59
61	Enhanced window breakdown dynamics in a nanosecond microwave tail pulse. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 253504	3.4	53
60	Suppression of high-power microwave dielectric multipactor by resonant magnetic field. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 111502	3.4	47
59	Suppressing high-power microwave dielectric multipactor by the sawtooth surface. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 083501	2.1	46
58	The influence of desorption gas to high power microwave window multipactor. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 093508	2.1	46
57	Experimental demonstration of a tunable microwave undulator. <i>Physical Review Letters</i> , <b>2014</b> , 112, 164802	7.2	42
56	Surface modifications of polystyrene and their stability: A comparison of DBD plasma deposition and direct fluorination. <i>Applied Surface Science</i> , <b>2018</b> , 459, 300-308	6.7	36
55	High-gain Thompson-scattering x-ray free-electron laser by time-synchronic laterally tilted optical wave. <i>Physical Review Letters</i> , <b>2013</b> , 110, 064802	7.4	32
54	Compact four-way microwave power combiner for high power applications. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 214502	2.5	26
53	The effects of magnetic field on single-surface resonant multipactor. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 063304	2.5	25
52	Experimental verification of improving high-power microwave window breakdown thresholds by resonant magnetic field. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 141501	3.4	23
51	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 1875-1882	4.1	22
50	DESIGN AND EXPERIMENTS OF THE GW HIGH-POWER MICROWAVE FEED HORN. <i>Progress in Electromagnetics Research</i> , <b>2010</b> , 101, 157-171	3.8	21
49	THEORY AND EXPERIMENT OF A COMPACT WAVEGUIDE DUAL CIRCULAR POLARIZER. <i>Progress in Electromagnetics Research</i> , <b>2012</b> , 131, 211-225	3.8	20
48	Field distribution, HPM multipactor, and plasma discharge on the periodic triangular surface. <i>Laser and Particle Beams</i> , <b>2010</b> , 28, 185-193	0.9	20
47	Carvacrol Loaded Solid Lipid Nanoparticles of Propylene Glycol Monopalmitate and Glyceryl Monostearate: Preparation, Characterization, and Synergistic Antimicrobial Activity. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	19

46	Chemerin <sup>15</sup> -Ameliorated Cardiac Ischemia-Reperfusion Injury Is Associated with the Induction of Alternatively Activated Macrophages. <i>Mediators of Inflammation</i> , <b>2015</b> , 2015, 563951	4.3	19
45	A compact two-way high-power microwave combiner. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 084704	1.7	19
44	Observation of multipactor suppression in a dielectric-loaded accelerating structure using an applied axial magnetic field. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 213503	3.4	18
43	Studies of a Leaky-Wave Phased Array Antenna for High-Power Microwave Applications. <i>IEEE Transactions on Plasma Science</i> , <b>2016</b> , 44, 2366-2375	1.3	17
42	Sharp improvement of flashover strength from composite micro-textured surfaces. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 115105	2.5	17
41	Ultrafast high-power microwave window breakdown: nonlinear and postpulse effects. <i>Physical Review E</i> , <b>2014</b> , 90, 063107	2.4	17
40	Single and repetitive short-pulse high-power microwave window breakdown. <i>Physics of Plasmas</i> , <b>2010</b> , 17, 053301	2.1	17
39	Suppressing double-metal-surface resonant multipactor by three dimensional wavy surface. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 040702	2.1	16
38	High-brightness X-ray free-electron laser with an optical undulator by pulse shaping. <i>Optics Express</i> , <b>2013</b> , 21, 32013-8	3.3	15
37	NOVEL COMPACT WAVEGUIDE DUAL CIRCULAR POLARIZER. <i>Progress in Electromagnetics Research</i> , <b>2013</b> , 136, 1-16	3.8	15
36	The influence of space charge shielding on dielectric multipactor. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 053506	2.1	15
35	Nanosecond discharge at the interfaces of flat and periodic ripple surfaces of dielectric window with air at varied pressure. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 375-381	2.3	14
34	Protective effects of mannan/ $\beta$ -glucans from yeast cell wall on the deoxyriyalenol-induced oxidative stress and autophagy in IPEC-J2 cells. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 135, 619-629	7.9	14
33	The influence of ions and the induced secondary emission on the nanosecond high-gradient microwave breakdown at metal surface. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 063511	2.1	14
32	Improving the microwave window breakdown threshold by using a fluorinated, periodically patterned surface. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 163304	2.5	13
31	Improved model for window breakdown at low pressure. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 033505	2.1	12
30	Circulating Omentin-1 Levels Are Decreased in Dilated Cardiomyopathy Patients with Overt Heart Failure. <i>Disease Markers</i> , <b>2016</b> , 2016, 6762825	3.2	11
29	Theory of Nanosecond High-Power Microwave Breakdown on the Atmosphere Side of the Dielectric Window. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 1670-1674	1.3	9

28	. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 1887-1893	1.3	9
27	Dynamic of microwave breakdown in the localized places of transmitting line driving by Cherenkov-type oscillator. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 023303	2.1	8
26	Electric Fano resonance-based terahertz metasensors. <i>Nanoscale</i> , <b>2021</b> , 13, 18467-18472	7.7	8
25	Multipactor Analysis in Circular Waveguides Excited by TM <sub>01</sub> Mode. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 4943-4951	2.9	7
24	The effect of periodic wavy profile on suppressing window multipactor under arbitrary electromagnetic mode. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 014102	3.4	6
23	Effects of pressure and incident field on visible light intensity from microwave nitrogen breakdown. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 022104	2.1	6
22	An Analytical Model of One-Sided Multipactor on a Dielectric of a Metal Surface for Spacecraft Application. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 4921-4927	2.9	6
21	Experimental demonstration of improving resonant-multipactor threshold by three-dimensional wavy surface. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 123503	3.4	6
20	Demonstration of Halbach-like magnets for improving microwave window power capacity. <i>Applied Physics Express</i> , <b>2014</b> , 7, 097301	2.4	6
19	Electron dynamics and transverse-kick elimination in a high-field short-period helical microwave undulator. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 161102	3.4	6
18	High-gain X-ray free electron laser by beat-wave terahertz undulator. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 123110	1.0	6
17	Diagnostic of ultrafast temporal plasma evolution in high-power microwave discharge. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 213301	2.5	5
16	Mechanisms of high-gradient microwave breakdown on metal surfaces in high power microwave source. <i>Physics of Plasmas</i> , <b>2017</b> , 24, 123302	2.1	4
15	Tracking multiple generation and suppression of secondary electrons on periodic triangular surface. <i>Physics of Plasmas</i> , <b>2013</b> , 20, 123502	2.1	4
14	Compact high-power microwave divider and combiner. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 024702	1.7	4
13	Space and time evolution of light emitted from microwave nitrogen breakdown. <i>Plasma Sources Science and Technology</i> , <b>2019</b> , 28, 085006	3.5	3
12	Analysis of electron dynamics and two mechanisms in a coaxial magnetic wiggler. <i>Physics of Plasmas</i> , <b>2014</b> , 21, 123119	2.1	3
11	Repression of deoxynivalenol-triggered cytotoxicity and apoptosis by mannan/β-glucans from yeast cell wall: Involvement of autophagy and PI3K-AKT-mTOR signaling pathway. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 1413-1421	7.9	3

10	. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 9819-9824	4	2
9	A high-power microwave circular polarizer and its application on phase shifter. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 044701	1.7	2
8	Comparison Between Air and SF6 Breakdown by Microwaves at High Pressure. <i>IEEE Transactions on Plasma Science</i> , <b>2018</b> , 46, 2794-2799	1.3	2
7	A theoretical model for suppression effect of single-surface multipactor on dielectric by external DC magnetic field. <i>AIP Advances</i> , <b>2020</b> , 10, 045011	1.5	1
6	Temporal and spatial evolution of nanosecond microwave-driven plasma. <i>Physics of Plasmas</i> , <b>2018</b> , 25, 060701	2.1	1
5	Reduced graphene oxide/polydimethylsiloxane as an over-coating layer on quartz tuning fork for sensitive light-induced thermoelastic spectroscopy. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1	4	0
4	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> , <b>2019</b> , 47, 1885-1886	1.3	
3	Study of periodic surface profile on improving the window capacity at single and repetitive pulses. <i>Physics of Plasmas</i> , <b>2015</b> , 22, 093502	2.1	
2	Microwave frequency downshift in the time-varying collision plasma. <i>Plasma Science and Technology</i> , <b>2020</b> , 22, 025501	1.5	
1	Particle-in-cell simulation for frequency up-conversion of microwave to terahertz radiation by a relativistic hollow ionization front. <i>AIP Advances</i> , <b>2019</b> , 9, 115107	1.5	