

Jian Wei Mark Lim

List of Publications by Year in descending order

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475
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ -based nanostructures: synthesis and applications in medicine. Journal Physics D: Applied Physics, 2019, 52, 183001.	2.8	53
2	From nanometre to millimetre: a range of capabilities for plasma-enabled surface functionalization and nanostructuring. Materials Horizons, 2018, 5, 765-798.	12.2	49
3	Oxygen plasmas: a sharp chisel and handy trowel for nanofabrication. Nanoscale, 2018, 10, 17494-17511.	5.6	43
4	Formation of vertically oriented graphenes: what are the key drivers of growth?. 2D Materials, 2018, 5, 044002.	4.4	31
5	Plasma parameters and discharge characteristics of lab-based krypton-propelled miniaturized Hall thruster. Plasma Sources Science and Technology, 2019, 28, 064003.	3.1	21
6	Electron heating and mode transition in dual frequency atmospheric pressure argon dielectric barrier discharge. AIP Advances, 2017, 7, 105313.	1.3	13
7	Miniaturized Plasma Sources: Can Technological Solutions Help Electric Micropropulsion?. IEEE Transactions on Plasma Science, 2018, 46, 230-238.	1.3	13
8	Automated Integrated Robotic Systems for Diagnostics and Test of Electric and Micropropulsion Thrusters. IEEE Transactions on Plasma Science, 2018, 46, 345-353.	1.3	12
9	Ultra-low reflective black silicon photovoltaics by high density inductively coupled plasmas. Solar Energy, 2018, 171, 841-850.	6.1	12
10	Ionization asymmetry effects on the properties modulation of atmospheric pressure dielectric barrier discharge sustained by tailored voltage waveforms. Physics of Plasmas, 2018, 25, 043502.	1.9	11
11	Hall Thrusters With Permanent Magnets: Current Solutions and Perspectives. IEEE Transactions on Plasma Science, 2018, 46, 239-251.	1.3	10
12	Comparison of sintering condition and radio frequency plasma discharge on the conversion of coal/biomass fly ash into high-temperature thermal energy storage material. Energy Conversion and Management, 2019, 192, 180-187.	9.2	10
13	Numerical studies on plasma parameter modulation of atmospheric pressure dielectric barrier discharge via 200 kHz/13.56 MHz dual-frequency excitation. Physics of Plasmas, 2019, 26, .	1.9	8
14	Miniaturized rotating magnetic field-driven plasma system: proof-of-concept experiments. Plasma Sources Science and Technology, 2021, 30, 065003.	3.1	7
15	Scalable Production of Silicon Nanocone Solar Cells in Integrated Plasma Photovoltaic Nanofabrication Cluster. Plasma Processes and Polymers, 2016, 13, 161-169.	3.0	5
16	Precise Calibration of Propellant Flow and Forces in Specialized Electric Propulsion Test System. IEEE Transactions on Plasma Science, 2018, 46, 338-344.	1.3	5
17	High Quality Hydrogenated Amorphous Silicon Thin Films with Enhanced Growth Rates for Surface Passivation in an Al ₂ O ₃ Based ICP Reactor. Procedia Engineering, 2016, 139, 56-63.	1.2	3
18	High-Efficiency Inductively Coupled Plasma Source With Dual Antenna Hybrid Scheme. IEEE Transactions on Plasma Science, 2018, 46, 954-961.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Development and Calibration of a Variable Range Stand for Testing Space Micropropulsion Thrusters. IEEE Transactions on Plasma Science, 2018, 46, 289-295.	1.3	3
20	Selective modulation of plasma parameters in an atmospheric dielectric barrier discharge driven by sawtooth-type tailored voltage waveforms. Physics of Plasmas, 2020, 27, 063519.	1.9	3
21	Enhancement of discharge properties of atmospheric pressure plasma systems through trace radio-frequency oscillation control. Plasma Sources Science and Technology, 2021, 30, 075018.	3.1	3
22	Ultra-Low Reflective Silicon Surfaces for Photovoltaic Applications. Procedia Engineering, 2016, 139, 147-154.	1.2	2
23	Highly tunable electronic properties in plasma-synthesized B-doped microcrystalline-to-amorphous silicon nanostructure for solar cell applications. Journal of Applied Physics, 2017, 122, 133112.	2.5	1
24	The effect of dielectric top lids on materials processing in a low frequency inductively coupled plasma (LF-ICP) reactor. International Journal of Modern Physics Conference Series, 2014, 32, 1460340.	0.7	0