

Jia Cheng

List of Publications by Year in descending order

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430874

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1114
citing authors

#	ARTICLE	IF	CITATIONS
1	Alternating Current Electroluminescent Device Powered by Triboelectric Nanogenerator with Capacitively Driven Circuit Strategy. <i>Advanced Functional Materials</i> , 2022, 32, 2106411.	14.9	16
2	Decoding lip language using triboelectric sensors with deep learning. <i>Nature Communications</i> , 2022, 13, 1401.	12.8	77
3	A Self-Powered and Efficient Triboelectric Dehydrator for Separating Water-in-Oil Emulsions with Ultrahigh Moisture Content. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	7
4	Thousandfold boosting instantaneous current of triboelectric nanogenerator based on decoupled charge pump and discharge tube. <i>Nano Energy</i> , 2022, 98, 107264.	16.0	10
5	Recent advancements for improving the performance of triboelectric nanogenerator devices. <i>Nano Energy</i> , 2022, 99, 107318.	16.0	76
6	Triboelectric nanogenerators for human-health care. <i>Science Bulletin</i> , 2021, 66, 490-511.	9.0	93
7	Preshooting Electroencephalographic Activity of Professional Shooters in a Competitive State. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-9.	1.7	5
8	Power Backpack for Energy Harvesting and Reduced Load Impact. <i>ACS Nano</i> , 2021, 15, 2611-2623.	14.6	49
9	Charge Pumping for Sliding-mode Triboelectric Nanogenerator with Voltage Stabilization and Boosted Current. <i>Advanced Energy Materials</i> , 2021, 11, 2101147.	19.5	38
10	Energy from greenhouse plastic films. <i>Nano Energy</i> , 2021, 89, 106328.	16.0	21
11	Triboelectric Nanogenerators: Charge Pumping for Sliding-mode Triboelectric Nanogenerator with Voltage Stabilization and Boosted Current (Adv. Energy Mater. 28/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170113.	19.5	1
12	Triboelectric nanogenerators for electro-assisted cell printing. <i>Nano Energy</i> , 2020, 67, 104150.	16.0	36
13	Distributed mobile ultraviolet light sources driven by ambient mechanical stimuli. <i>Nano Energy</i> , 2020, 74, 104910.	16.0	43
14	High-performance cylindrical pendulum shaped triboelectric nanogenerators driven by water wave energy for full-automatic and self-powered wireless hydrological monitoring system. <i>Nano Energy</i> , 2020, 74, 104937.	16.0	89
15	Electrical description of an inductively coupled plasma processing reactor with discharge parameters calculated from a global model. <i>AIP Advances</i> , 2020, 10, 035216.	1.3	1
16	Normally Transparent Tribo-Induced Smart Window. <i>ACS Nano</i> , 2020, 14, 3630-3639.	14.6	74
17	Quantitative electrostatic force measurement and characterization based on oscillation amplitude using atomic force microscopy. <i>AIP Advances</i> , 2020, 10, 015143.	1.3	2
18	TriboPump: A Low-Cost, Hand-Powered Water Disinfection System. <i>Advanced Energy Materials</i> , 2019, 9, 1901320.	19.5	74

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19	Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1901102.	14.9	59
20	Electrical analysis of triboelectric nanogenerator for high voltage applications exemplified by DBD microplasma. <i>Nano Energy</i> , 2019, 56, 482-493.	16.0	64
21	Prediction of residual clamping force for Coulomb type and Johnson-Rahbek type of bipolar electrostatic chucks. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 302-312.	2.1	9
22	Field Emission of Electrons Powered by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2018, 28, 1800610.	14.9	44
23	Experimental Study of SiO ₂ Sputter Etching Process in 13.56 MHz rf-Biased Inductively Coupled Plasma. <i>Spin</i> , 2018, 08, 1850002.	1.3	4
24	Self-powered wireless optical transmission of mechanical agitation signals. <i>Nano Energy</i> , 2018, 47, 566-572.	16.0	66
25	Triboelectric microplasma powered by mechanical stimuli. <i>Nature Communications</i> , 2018, 9, 3733.	12.8	212
26	Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. <i>ACS Nano</i> , 2018, 12, 5726-5733.	14.6	109
27	Measuring System Design and Experimental Research on Electrostatic Attractive Force. <i>IEEE Design and Test</i> , 2018, 35, 71-77.	1.2	0
28	An aeroelastic flutter based triboelectric nanogenerator as a self-powered active wind speed sensor in harsh environment. <i>Extreme Mechanics Letters</i> , 2017, 15, 122-129.	4.1	123
29	Measurement of Argon emission spectral of ICP plasma using a diagnostic system based on photomultiplier tubes array. <i>MATEC Web of Conferences</i> , 2017, 128, 05016.	0.2	0
30	Determination of electrostatic force and its characteristics based on phase difference by amplitude modulation atomic force microscopy. <i>Nanoscale Research Letters</i> , 2016, 11, 548.	5.7	4
31	Simulation of Dual-Electrode Capacitively Coupled Plasma Discharges. <i>Plasma Science and Technology</i> , 2016, 18, 1175-1180.	1.5	2
32	A novel measuring method of clamping force for electrostatic chuck in semiconductor devices. <i>Journal of Semiconductors</i> , 2016, 37, 044012.	3.7	1
33	Electron heating enhancement due to plasma series resonance in a capacitively coupled RF discharge: Electrical modeling and comparison to experimental measurements. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 096201.	1.5	2
34	Design space of electrostatic chuck in etching chamber. <i>Journal of Semiconductors</i> , 2015, 36, 084004.	3.7	9
35	Finite element analysis on factors influencing the clamping force in an electrostatic chuck. <i>Journal of Semiconductors</i> , 2014, 35, 094011.	3.7	1
36	Modeling of Electrostatic Chuck and Simulation of Electrostatic Force. <i>Applied Mechanics and Materials</i> , 2014, 511-512, 588-594.	0.2	3

#	ARTICLE	IF	CITATIONS
37	Two-dimensional simulation of inductively coupled plasma based on COMSOL and comparison with experimental data. Journal of Semiconductors, 2013, 34, 066004.	3.7	19
38	Modeling Approach and Analysis of the Structural Parameters of an Inductively Coupled Plasma Etcher Based on a Regression Orthogonal Design. Plasma Science and Technology, 2012, 14, 1059-1068.	1.5	16
39	Simulation of cold plasma in a chamber under high- and low-frequency voltage conditions for a capacitively coupled plasma. Journal of Semiconductors, 2012, 33, 104004.	3.7	3
40	Three-Dimensional Discharge Simulation of Inductively Coupled Plasma Etcher. , 2007, , .		0
41	Investigation on the Development of Knowledge-Based Engineering and its Application in Rapid Design of Process Chamber of IC Equipment. Applied Mechanics and Materials, 0, 373-375, 2147-2155.	0.2	3
42	The Current Status of Development and Applications of Wave-Heated Discharge Plasma Sources. Advanced Materials Research, 0, 1006-1007, 193-199.	0.3	2