

# Jia Cheng

## List of Publications by Year in descending order

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42  
papers

1,467  
citations

430874

18  
h-index

345221

36  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triboelectric microplasma powered by mechanical stimuli. <i>Nature Communications</i> , 2018, 9, 3733.	12.8	212
2	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
3	Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. <i>ACS Nano</i> , 2018, 12, 5726-5733.	14.6	109
4	Triboelectric nanogenerators for human-health care. <i>Science Bulletin</i> , 2021, 66, 490-511.	9.0	93
5	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
6	Decoding lip language using triboelectric sensors with deep learning. <i>Nature Communications</i> , 2022, 13, 1401.	12.8	77
7	Recent advancements for improving the performance of triboelectric nanogenerator devices. <i>Nano Energy</i> , 2022, 99, 107318.	16.0	76
8	TriboPump: A Low-Cost, Hand-Powered Water Disinfection System. <i>Advanced Energy Materials</i> , 2019, 9, 1901320.	19.5	74
9	Normally Transparent Tribo-Induced Smart Window. <i>ACS Nano</i> , 2020, 14, 3630-3639.	14.6	74
10	Self-powered wireless optical transmission of mechanical agitation signals. <i>Nano Energy</i> , 2018, 47, 566-572.	16.0	66
11	Electrical analysis of triboelectric nanogenerator for high voltage applications exemplified by DBD microplasma. <i>Nano Energy</i> , 2019, 56, 482-493.	16.0	64
12	Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1901102.	14.9	59
13	Power Backpack for Energy Harvesting and Reduced Load Impact. <i>ACS Nano</i> , 2021, 15, 2611-2623.	14.6	49
14	Field Emission of Electrons Powered by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2018, 28, 1800610.	14.9	44
15	Distributed mobile ultraviolet light sources driven by ambient mechanical stimuli. <i>Nano Energy</i> , 2020, 74, 104910.	16.0	43
16	Charge Pumping for Sliding-Mode Triboelectric Nanogenerator with Voltage Stabilization and Boosted Current. <i>Advanced Energy Materials</i> , 2021, 11, 2101147.	19.5	38
17	Triboelectric nanogenerators for electro-assisted cell printing. <i>Nano Energy</i> , 2020, 67, 104150.	16.0	36
18	Energy from greenhouse plastic films. <i>Nano Energy</i> , 2021, 89, 106328.	16.0	21

#	ARTICLE	IF	CITATIONS
19	Two-dimensional simulation of inductively coupled plasma based on COMSOL and comparison with experimental data. <i>Journal of Semiconductors</i> , 2013, 34, 066004.	3.7	19
20	Modeling Approach and Analysis of the Structural Parameters of an Inductively Coupled Plasma Etcher Based on a Regression Orthogonal Design. <i>Plasma Science and Technology</i> , 2012, 14, 1059-1068.	1.5	16
21	Alternating Current Electroluminescent Device Powered by Triboelectric Nanogenerator with Capacitively Driven Circuit Strategy. <i>Advanced Functional Materials</i> , 2022, 32, 2106411.	14.9	16
22	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
23	Design space of electrostatic chuck in etching chamber. <i>Journal of Semiconductors</i> , 2015, 36, 084004.	3.7	9
24	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
25	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
26	Preshooting Electroencephalographic Activity of Professional Shooters in a Competitive State. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-9.	1.7	5
27	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
28	Experimental Study of SiO <sub>2</sub> Sputter Etching Process in 13.56 MHz rf-Biased Inductively Coupled Plasma. <i>Spin</i> , 2018, 08, 1850002.	1.3	4
29	Investigation on the Development of Knowledge-Based Engineering and its Application in Rapid Design of Process Chamber of IC Equipment. <i>Applied Mechanics and Materials</i> , 0, 373-375, 2147-2155.	0.2	3
30	Modeling of Electrostatic Chuck and Simulation of Electrostatic Force. <i>Applied Mechanics and Materials</i> , 2014, 511-512, 588-594.	0.2	3
31	Simulation of cold plasma in a chamber under high- and low-frequency voltage conditions for a capacitively coupled plasma. <i>Journal of Semiconductors</i> , 2012, 33, 104004.	3.7	3
32	The Current Status of Development and Applications of Wave-Heated Discharge Plasma Sources. <i>Advanced Materials Research</i> , 0, 1006-1007, 193-199.	0.3	2
33	Simulation of Dual-Electrode Capacitively Coupled Plasma Discharges. <i>Plasma Science and Technology</i> , 2016, 18, 1175-1180.	1.5	2
34	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
35	Quantitative electrostatic force measurement and characterization based on oscillation amplitude using atomic force microscopy. <i>AIP Advances</i> , 2020, 10, 015143.	1.3	2
36	Finite element analysis on factors influencing the clamping force in an electrostatic chuck. <i>Journal of Semiconductors</i> , 2014, 35, 094011.	3.7	1

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37	A novel measuring method of clamping force for electrostatic chuck in semiconductor devices. Journal of Semiconductors, 2016, 37, 044012.	3.7	1
38	Electrical description of an inductively coupled plasma processing reactor with discharge parameters calculated from a global model. AIP Advances, 2020, 10, 035216.	1.3	1
39	Triboelectric Nanogenerators: Charge Pumping for Sliding-mode Triboelectric Nanogenerator with Voltage Stabilization and Boosted Current (Adv. Energy Mater. 28/2021). Advanced Energy Materials, 2021, 11, 2170113.	19.5	1
40	Three-Dimensional Discharge Simulation of Inductively Coupled Plasma Etcher. , 2007, , .		0
41	Measurement of Argon emission spectral of ICP plasma using a diagnostic system based on photomultiplier tubes array. MATEC Web of Conferences, 2017, 128, 05016.	0.2	0
42	Measuring System Design and Experimental Research on Electrostatic Attractive Force. IEEE Design and Test, 2018, 35, 71-77.	1.2	0