Keren Dai

List of Publications by Year
in descending order

47 papers	1,524 citations	430754 18 h-index	315616 38 g-index
47 all docs	47 docs citations	47 times ranked	1862 citing authors

#	Article	IF	Citations
1	A highly shape-adaptive, stretchable design based on conductive liquid for energy harvesting and self-powered biomechanical monitoring. Science Advances, 2016, 2, e1501624.	4.7	274
2	Selfâ€Healing, Adhesive, and Highly Stretchable Ionogel as a Strain Sensor for Extremely Large Deformation. Small, 2019, 15, e1804651.	5.2	180
3	Harvesting Ambient Vibration Energy over a Wide Frequency Range for Self-Powered Electronics. ACS Nano, 2017, 11, 1728-1735.	7.3	169
4	Bioinspired stretchable triboelectric nanogenerator as energy-harvesting skin for self-powered electronics. Nano Energy, 2017, 39, 429-436.	8.2	147
5	Self-powered gait pattern-based identity recognition by a soft and stretchable triboelectric band. Nano Energy, 2019, 56, 516-523.	8.2	92
6	Solar thermal-driven capacitance enhancement of supercapacitors. Energy and Environmental Science, 2018, 11, 2016-2024.	15.6	85
7	Simulation and structure optimization of triboelectric nanogenerators considering the effects of parasitic capacitance. Nano Research, 2017, 10, 157-171.	5.8	56
8	Triboelectric nanogenerators as self-powered acceleration sensor under high-g impact. Nano Energy, 2018, 45, 84-93.	8.2	52
9	Comprehensive optimized hybrid energy storage system for long-life solar-powered wireless sensor network nodes. Applied Energy, 2021, 290, 116780.	5.1	40
10	Optimization of triboelectric nanogenerator load characteristics considering the air breakdown effect. Nano Energy, 2018, 53, 706-715.	8.2	34
11	An Adaptive Energy Management Strategy to Extend Battery Lifetime of Solar Powered Wireless Sensor Nodes. IEEE Access, 2019, 7, 88289-88300.	2.6	31
12	Triboelectric nanogenerator-based wearable electronic devices and systems: Toward informatization and intelligence. , 2021, 113, 103038.		28
13	Ammunition Reliability Against the Harsh Environments During the Launch of an Electromagnetic Gun: A Review. IEEE Access, 2019, 7, 45322-45339.	2.6	26
14	Integrated Waveform for a Joint Radar-Communication System With High-Speed Transmission. IEEE Wireless Communications Letters, 2019, 8, 1208-1211.	3.2	26
15	Failure mechanism and predictive model of lithium-ion batteries under extremely high transient impact. Journal of Energy Storage, 2021, 43, 103191.	3.9	23
16	Three-dimensional adaptive fixed-time cooperative guidance law with impact time and angle constraints. Aerospace Science and Technology, 2022, 123, 107450.	2.5	22
17	Ultralow Quiescent Powerâ€Consumption Wakeâ€Up Technology Based on the Bionic Triboelectric Nanogenerator. Advanced Science, 2020, 7, 2000254.	5.6	21
18	A Multi-Mode Broadband Vibration Energy Harvester Composed of Symmetrically Distributed U-Shaped Cantilever Beams. Micromachines, 2021, 12, 203.	1.4	21

#	Article	IF	Citations
19	Optimal VMD-Based Signal Denoising for Laser Radar via Hausdorff Distance and Wavelet Transform. IEEE Access, 2019, 7, 167997-168010.	2.6	19
20	Distributed cooperative guidance law for multiple missiles with input delay and topology switching. Journal of the Franklin Institute, 2021, 358, 9061-9085.	1.9	18
21	Voltage Fluctuation in a Supercapacitor During a High-g Impact. Scientific Reports, 2016, 6, 38794.	1.6	17
22	Discharge voltage behavior of electric double-layer capacitors during high-g impact and their application to autonomously sensing high-g accelerometers. Nano Research, 2018, 11, 1146-1156.	5.8	17
23	Optimal Design of Cascade LDPC-CPM System Based on Bionic Swarm Optimization Algorithm. IEEE Transactions on Broadcasting, 2018, 64, 762-770.	2.5	13
24	Sponge Supercapacitor rule-based energy management strategy for wireless sensor nodes optimized by using dynamic programing algorithm. Energy, 2022, 239, 122368.	4.5	13
25	Theoretical Model and Analysis on the Locally Concentrated Current and Heat During Electromagnetic Propulsion. IEEE Access, 2019, 7, 164856-164866.	2.6	12
26	Transient physical modeling and comprehensive optimal design of air-breakdown direct-current triboelectric nanogenerators. Nano Energy, 2022, 92, 106742.	8.2	12
27	Waveform Design for Joint Radar-Communication with Nonideal Power Amplifier and Outband Interference. , 2017, , .		9
28	Adaptive Capacitor Charging Circuit With Simplified Configuration for Efficient Piezoelectric Energy Harvesting. IEEE Transactions on Power Electronics, 2022, 37, 10267-10280.	5.4	9
29	In-Bore Dynamic Measurement and Mechanism Analysis of Multi-Physics Environment for Electromagnetic Railguns. IEEE Access, 2021, 9, 16999-17010.	2.6	7
30	An Adaptive Energy Management Strategy for Simultaneous Long Life and High Wakeâ€Up Success Rate of Wireless Sensor Network Nodes. Energy Technology, 2021, 9, 2100522.	1.8	7
31	Theoretical study and applications of self-sensing supercapacitors under extreme mechanical effects. Extreme Mechanics Letters, 2019, 26, 53-60.	2.0	6
32	Failure Mechanism of Multilayer Ceramic Capacitors under Transient High Impact. Applied Sciences (Switzerland), 2020, 10, 8435.	1.3	6
33	Superior Electromagnetic Shielding and Mechanical Buffering Achieved by Alternating Conductive and Porous Supramolecular Networks. Advanced Engineering Materials, 2022, 24, .	1.6	6
34	Pressure Sensitivity Enhancement of Porous Carbon Electrode and Its Application in Self-Powered Mechanical Sensors. Micromachines, 2019, 10, 58.	1.4	5
35	Improved Energy Absorption Characteristics Based on Elastic Polymer-Modified Porous Material for Multiple Extreme Mechanical Impacts. Applied Sciences (Switzerland), 2020, 10, 110.	1.3	4
36	An Adaptive Diagnose Scheme for Integrated Radar-Communication Antenna Array With Huge Noise. IEEE Access, 2018, 6, 25785-25796.	2.6	3

#	Article	IF	Citations
37	Low-Complexity Failed Element Diagnosis for Radar-Communication mmWave Antenna Array with Low SNR. Electronics (Switzerland), 2019, 8, 904.	1.8	3
38	Image denoising via neighborhood-based multidimensional Gaussian process regression. Signal, Image and Video Processing, 2023, 17, 389-397.	1.7	3
39	Cooperative guidance law for multiple missiles simultaneous attacks with fixed-time convergence. International Journal of Control, 2023, 96, 2167-2180.	1.2	3
40	Study on a Planar Interdigitated MEMS Supercapacitor Using Modeling and Simulation Method. Key Engineering Materials, 0, 645-646, 513-516.	0.4	2
41	A Low-Complexity Parameter Estimation Algorithm for an Integrated Radar-Communication Waveform with Cross-Mode Interference. IEEE Communications Letters, 2021, , 1-1.	2.5	1
42	Circumferential nonscanning contour imaging method for aerial target using single detector. Optical Engineering, 2020, 59, 1.	0.5	1
43	Reprint of: Triboelectric nanogenerator-based wearable electronic devices and systems: Toward informatization and intelligence. , 2022, 125, 103570.		1
44	Research on the automatic calibration of antenna for vehicle telemetry receivers based on solar radiation. , 2017, , .		0
45	Design and Experiment of Shielding Package for Electronic Devices in Pulsed Strong Magnetic Field. , 2019, , .		0
46	Fixed-Time Output Feedback Consensus for Multi-agent Systems with Input Saturation and Uncertain Disturbance. , 2021, , .		0
47	Analysis of the magnetomechanical coupled effect on electromagnetic propulsion. , 2021, , .		0