Keren Dai

List of Publications by Year
in descending order

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47 papers	1,524 citations	430874 18 h-index	315739 38 g-index
47 all docs	47 docs citations	47 times ranked	1862 citing authors

#	Article	IF	Citations
1	Image denoising via neighborhood-based multidimensional Gaussian process regression. Signal, Image and Video Processing, 2023, 17, 389-397.	2.7	3
2	Cooperative guidance law for multiple missiles simultaneous attacks with fixed-time convergence. International Journal of Control, 2023, 96, 2167-2180.	1.9	3
3	Sponge Supercapacitor rule-based energy management strategy for wireless sensor nodes optimized by using dynamic programing algorithm. Energy, 2022, 239, 122368.	8.8	13
4	Transient physical modeling and comprehensive optimal design of air-breakdown direct-current triboelectric nanogenerators. Nano Energy, 2022, 92, 106742.	16.0	12
5	Superior Electromagnetic Shielding and Mechanical Buffering Achieved by Alternating Conductive and Porous Supramolecular Networks. Advanced Engineering Materials, 2022, 24, .	3.5	6
6	Adaptive Capacitor Charging Circuit With Simplified Configuration for Efficient Piezoelectric Energy Harvesting. IEEE Transactions on Power Electronics, 2022, 37, 10267-10280.	7.9	9
7	Three-dimensional adaptive fixed-time cooperative guidance law with impact time and angle constraints. Aerospace Science and Technology, 2022, 123, 107450.	4.8	22
8	Reprint of: Triboelectric nanogenerator-based wearable electronic devices and systems: Toward informatization and intelligence. , 2022, 125, 103570.		1
9	A Low-Complexity Parameter Estimation Algorithm for an Integrated Radar-Communication Waveform with Cross-Mode Interference. IEEE Communications Letters, 2021, , 1-1.	4.1	1
10	In-Bore Dynamic Measurement and Mechanism Analysis of Multi-Physics Environment for Electromagnetic Railguns. IEEE Access, 2021, 9, 16999-17010.	4.2	7
11	A Multi-Mode Broadband Vibration Energy Harvester Composed of Symmetrically Distributed U-Shaped Cantilever Beams. Micromachines, 2021, 12, 203.	2.9	21
12	Comprehensive optimized hybrid energy storage system for long-life solar-powered wireless sensor network nodes. Applied Energy, 2021, 290, 116780.	10.1	40
13	Triboelectric nanogenerator-based wearable electronic devices and systems: Toward informatization and intelligence. , 2021, 113, 103038.		28
14	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.	3.8	7
15	Distributed cooperative guidance law for multiple missiles with input delay and topology switching. Journal of the Franklin Institute, 2021, 358, 9061-9085.	3.4	18
16	Failure mechanism and predictive model of lithium-ion batteries under extremely high transient impact. Journal of Energy Storage, 2021, 43, 103191.	8.1	23
17	Fixed-Time Output Feedback Consensus for Multi-agent Systems with Input Saturation and Uncertain Disturbance. , 2021, , .		0
18	Analysis of the magnetomechanical coupled effect on electromagnetic propulsion. , 2021, , .		0

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19	Failure Mechanism of Multilayer Ceramic Capacitors under Transient High Impact. Applied Sciences (Switzerland), 2020, 10, 8435.	2.5	6
20	Ultralow Quiescent Powerâ€Consumption Wakeâ€Up Technology Based on the Bionic Triboelectric Nanogenerator. Advanced Science, 2020, 7, 2000254.	11.2	21
21	Improved Energy Absorption Characteristics Based on Elastic Polymer-Modified Porous Material for Multiple Extreme Mechanical Impacts. Applied Sciences (Switzerland), 2020, 10, 110.	2.5	4
22	Circumferential nonscanning contour imaging method for aerial target using single detector. Optical Engineering, 2020, 59, 1.	1.0	1
23	An Adaptive Energy Management Strategy to Extend Battery Lifetime of Solar Powered Wireless Sensor Nodes. IEEE Access, 2019, 7, 88289-88300.	4.2	31
24	Low-Complexity Failed Element Diagnosis for Radar-Communication mmWave Antenna Array with Low SNR. Electronics (Switzerland), 2019, 8, 904.	3.1	3
25	Pressure Sensitivity Enhancement of Porous Carbon Electrode and Its Application in Self-Powered Mechanical Sensors. Micromachines, 2019, 10, 58.	2.9	5
26	Ammunition Reliability Against the Harsh Environments During the Launch of an Electromagnetic Gun: A Review. IEEE Access, 2019, 7, 45322-45339.	4.2	26
27	Selfâ€Healing, Adhesive, and Highly Stretchable Ionogel as a Strain Sensor for Extremely Large Deformation. Small, 2019, 15, e1804651.	10.0	180
28	Integrated Waveform for a Joint Radar-Communication System With High-Speed Transmission. IEEE Wireless Communications Letters, 2019, 8, 1208-1211.	5.0	26
29	Design and Experiment of Shielding Package for Electronic Devices in Pulsed Strong Magnetic Field. , 2019, , .		0
30	Theoretical Model and Analysis on the Locally Concentrated Current and Heat During Electromagnetic Propulsion. IEEE Access, 2019, 7, 164856-164866.	4.2	12
31	Optimal VMD-Based Signal Denoising for Laser Radar via Hausdorff Distance and Wavelet Transform. IEEE Access, 2019, 7, 167997-168010.	4.2	19
32	Theoretical study and applications of self-sensing supercapacitors under extreme mechanical effects. Extreme Mechanics Letters, 2019, 26, 53-60.	4.1	6
33	Self-powered gait pattern-based identity recognition by a soft and stretchable triboelectric band. Nano Energy, 2019, 56, 516-523.	16.0	92
34	Triboelectric nanogenerators as self-powered acceleration sensor under high-g impact. Nano Energy, 2018, 45, 84-93.	16.0	52
35	An Adaptive Diagnose Scheme for Integrated Radar-Communication Antenna Array With Huge Noise. IEEE Access, 2018, 6, 25785-25796.	4.2	3
36	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.	10.4	17

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37	Optimization of triboelectric nanogenerator load characteristics considering the air breakdown effect. Nano Energy, 2018, 53, 706-715.	16.0	34
38	Solar thermal-driven capacitance enhancement of supercapacitors. Energy and Environmental Science, 2018, 11, 2016-2024.	30.8	85
39	Optimal Design of Cascade LDPC-CPM System Based on Bionic Swarm Optimization Algorithm. IEEE Transactions on Broadcasting, 2018, 64, 762-770.	3.2	13
40	Harvesting Ambient Vibration Energy over a Wide Frequency Range for Self-Powered Electronics. ACS Nano, 2017, 11, 1728-1735.	14.6	169
41	Waveform Design for Joint Radar-Communication with Nonideal Power Amplifier and Outband Interference. , 2017, , .		9
42	Bioinspired stretchable triboelectric nanogenerator as energy-harvesting skin for self-powered electronics. Nano Energy, 2017, 39, 429-436.	16.0	147
43	Research on the automatic calibration of antenna for vehicle telemetry receivers based on solar radiation. , 2017, , .		0
44	Simulation and structure optimization of triboelectric nanogenerators considering the effects of parasitic capacitance. Nano Research, 2017, 10, 157-171.	10.4	56
45	Voltage Fluctuation in a Supercapacitor During a High-g Impact. Scientific Reports, 2016, 6, 38794.	3.3	17
46	A highly shape-adaptive, stretchable design based on conductive liquid for energy harvesting and self-powered biomechanical monitoring. Science Advances, 2016, 2, e1501624.	10.3	274
47	Study on a Planar Interdigitated MEMS Supercapacitor Using Modeling and Simulation Method. Key Engineering Materials, 0, 645-646, 513-516.	0.4	2