

# Keren Dai

## List of Publications by Year in descending order

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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	Image denoising via neighborhood-based multidimensional Gaussian process regression. <i>Signal, Image and Video Processing</i> , 2023, 17, 389-397.	1.7	3
2	Cooperative guidance law for multiple missiles simultaneous attacks with fixed-time convergence. <i>International Journal of Control</i> , 2023, 96, 2167-2180.	1.2	3
3	Sponge Supercapacitor rule-based energy management strategy for wireless sensor nodes optimized by using dynamic programming algorithm. <i>Energy</i> , 2022, 239, 122368.	4.5	13
4	Transient physical modeling and comprehensive optimal design of air-breakdown direct-current triboelectric nanogenerators. <i>Nano Energy</i> , 2022, 92, 106742.	8.2	12
5	Superior Electromagnetic Shielding and Mechanical Buffering Achieved by Alternating Conductive and Porous Supramolecular Networks. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	6
6	Adaptive Capacitor Charging Circuit With Simplified Configuration for Efficient Piezoelectric Energy Harvesting. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 10267-10280.	5.4	9
7	Three-dimensional adaptive fixed-time cooperative guidance law with impact time and angle constraints. <i>Aerospace Science and Technology</i> , 2022, 123, 107450.	2.5	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. <i>IEEE Communications Letters</i> , 2021, , 1-1.	2.5	1
10	In-Bore Dynamic Measurement and Mechanism Analysis of Multi-Physics Environment for Electromagnetic Railguns. <i>IEEE Access</i> , 2021, 9, 16999-17010.	2.6	7
11	A Multi-Mode Broadband Vibration Energy Harvester Composed of Symmetrically Distributed U-Shaped Cantilever Beams. <i>Micromachines</i> , 2021, 12, 203.	1.4	21
12	Comprehensive optimized hybrid energy storage system for long-life solar-powered wireless sensor network nodes. <i>Applied Energy</i> , 2021, 290, 116780.	5.1	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 Wake-Up Success Rate of Wireless Sensor Network Nodes. <i>Energy Technology</i> , 2021, 9, 2100522.	1.8	7
15	Distributed cooperative guidance law for multiple missiles with input delay and topology switching. <i>Journal of the Franklin Institute</i> , 2021, 358, 9061-9085.	1.9	18
16	Failure mechanism and predictive model of lithium-ion batteries under extremely high transient impact. <i>Journal of Energy Storage</i> , 2021, 43, 103191.	3.9	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

#	ARTICLE	IF	CITATIONS
19	Failure Mechanism of Multilayer Ceramic Capacitors under Transient High Impact. Applied Sciences (Switzerland), 2020, 10, 8435.	1.3	6
20	Ultralow Quiescent Power Consumption Wake-Up Technology Based on the Bionic Triboelectric Nanogenerator. Advanced Science, 2020, 7, 2000254.	5.6	21
21	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
22	Circumferential non-scanning contour imaging method for aerial target using single detector. Optical Engineering, 2020, 59, 1.	0.5	1
23	An Adaptive Energy Management Strategy to Extend Battery Lifetime of Solar Powered Wireless Sensor Nodes. IEEE Access, 2019, 7, 88289-88300.	2.6	31
24	Low-Complexity Failed Element Diagnosis for Radar-Communication mmWave Antenna Array with Low SNR. Electronics (Switzerland), 2019, 8, 904.	1.8	3
25	Pressure Sensitivity Enhancement of Porous Carbon Electrode and Its Application in Self-Powered Mechanical Sensors. Micromachines, 2019, 10, 58.	1.4	5
26	Ammunition Reliability Against the Harsh Environments During the Launch of an Electromagnetic Gun: A Review. IEEE Access, 2019, 7, 45322-45339.	2.6	26
27	Self-Healing, Adhesive, and Highly Stretchable Ionogel as a Strain Sensor for Extremely Large Deformation. Small, 2019, 15, e1804651.	5.2	180
28	Integrated Waveform for a Joint Radar-Communication System With High-Speed Transmission. IEEE Wireless Communications Letters, 2019, 8, 1208-1211.	3.2	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.	2.6	12
31	Optimal VMD-Based Signal Denoising for Laser Radar via Hausdorff Distance and Wavelet Transform. IEEE Access, 2019, 7, 167997-168010.	2.6	19
32	Theoretical study and applications of self-sensing supercapacitors under extreme mechanical effects. Extreme Mechanics Letters, 2019, 26, 53-60.	2.0	6
33	Self-powered gait pattern-based identity recognition by a soft and stretchable triboelectric band. Nano Energy, 2019, 56, 516-523.	8.2	92
34	Triboelectric nanogenerators as self-powered acceleration sensor under high-g impact. Nano Energy, 2018, 45, 84-93.	8.2	52
35	An Adaptive Diagnose Scheme for Integrated Radar-Communication Antenna Array With Huge Noise. IEEE Access, 2018, 6, 25785-25796.	2.6	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.	5.8	17

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37	Optimization of triboelectric nanogenerator load characteristics considering the air breakdown effect. <i>Nano Energy</i> , 2018, 53, 706-715.	8.2	34
38	Solar thermal-driven capacitance enhancement of supercapacitors. <i>Energy and Environmental Science</i> , 2018, 11, 2016-2024.	15.6	85
39	Optimal Design of Cascade LDPC-CPM System Based on Bionic Swarm Optimization Algorithm. <i>IEEE Transactions on Broadcasting</i> , 2018, 64, 762-770.	2.5	13
40	Harvesting Ambient Vibration Energy over a Wide Frequency Range for Self-Powered Electronics. <i>ACS Nano</i> , 2017, 11, 1728-1735.	7.3	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. <i>Nano Energy</i> , 2017, 39, 429-436.	8.2	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. <i>Nano Research</i> , 2017, 10, 157-171.	5.8	56
45	Voltage Fluctuation in a Supercapacitor During a High-g Impact. <i>Scientific Reports</i> , 2016, 6, 38794.	1.6	17
46	A highly shape-adaptive, stretchable design based on conductive liquid for energy harvesting and self-powered biomechanical monitoring. <i>Science Advances</i> , 2016, 2, e1501624.	4.7	274
47	Study on a Planar Interdigitated MEMS Supercapacitor Using Modeling and Simulation Method. <i>Key Engineering Materials</i> , 0, 645-646, 513-516.	0.4	2