

Dianpeng Qi

List of Publications by Year in descending order

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papers

7,838
citations

81900

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62
times ranked

10997
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface Chelation Induced by Pyridine-Based Polymer for Efficient and Durable Air-Processed Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	10
2	Interface Chelation Induced by Pyridine-Based Polymer for Efficient and Durable Air-Processed Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202112673.	13.8	33
3	Electrostatic Interaction-Based High Tissue Adhesive, Stretchable Microelectrode Arrays for the Electrophysiological Interface. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4852-4861.	8.0	20
4	Strategies for interface issues and challenges of neural electrodes. <i>Nanoscale</i> , 2022, 14, 3346-3366.	5.6	18
5	From liquid metal to stretchable electronics: Overcoming the surface tension. <i>Science China Materials</i> , 2022, 65, 2072-2088.	6.3	22
6	A Light-Permeable Solar Evaporator with Three-Dimensional Photocatalytic Sites to Boost Volatile-Organic-Compound Rejection for Water Purification. <i>Environmental Science & Technology</i> , 2022, 56, 9797-9805.	10.0	25
7	Stretchable Electronics Based on PDMS Substrates. <i>Advanced Materials</i> , 2021, 33, e2003155.	21.0	319
8	High Sensitive Ultrathin Wearable Sensor for Physiological Signal Monitoring. , 2021, , .		0
9	Photothermal Janus Anode with Photosynthesis-Shielding Effect for Activating Low-Temperature Biological Wastewater Treatment. <i>Advanced Functional Materials</i> , 2020, 30, 1909432.	14.9	14
10	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020, 32, e1905399.	21.0	126
11	A solar-electro-thermal evaporation system with high water-production based on a facile integrated evaporator. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21771-21779.	10.3	21
12	Polymeric Membranes with Selective Solution-Diffusion for Intercepting Volatile Organic Compounds during Solar-Driven Water Remediation. <i>Advanced Materials</i> , 2020, 32, e2004401.	21.0	142
13	Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring. , 2020, 2, 478-484.		107
14	Volatile-Organic-Compound-Intercepting Solar Distillation Enabled by a Photothermal/Photocatalytic Nanofibrous Membrane with Dual-Scale Pores. <i>Environmental Science & Technology</i> , 2020, 54, 9025-9033.	10.0	108
15	Photothermal Janus Anodes: Photothermal Janus Anode with Photosynthesis-Shielding Effect for Activating Low-Temperature Biological Wastewater Treatment (<i>Adv. Funct. Mater.</i> 7/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070045.	14.9	1
16	Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. <i>Advanced Materials</i> , 2019, 31, e1901360.	21.0	96
17	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2019, 31, e1903130.	21.0	82
18	Hollow black TiAlO _x nanocomposites for solar thermal desalination. <i>Nanoscale</i> , 2019, 11, 9958-9968.	5.6	23

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19	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. <i>Advanced Materials</i> , 2019, 31, e1803883.	21.0	45
20	Plasticizing Silk Protein for On-Skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018, 30, e1800129.	21.0	230
21	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, e1706589.	21.0	349
22	Mechano-Based Transductive Sensing for Wearable Healthcare. <i>Small</i> , 2018, 14, e1702933.	10.0	91
23	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018, 30, e1706395.	21.0	100
24	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 5280-5289.	13.7	464
25	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, 1704229.	21.0	208
26	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO ₂ Nanowire Composite. <i>Advanced Materials</i> , 2018, 30, 1704531.	21.0	270
27	3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. <i>Advanced Materials</i> , 2018, 30, e1707285.	21.0	86
28	Stretchable Conductive Fibers Based on a Cracking Control Strategy for Wearable Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1801683.	14.9	100
29	CoFe ₂ O ₄ Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSM-5 Catalysts. <i>Advanced Functional Materials</i> , 2018, 28, 1802088.	14.9	15
30	Calcineable Polymer Membrane with Revivability for Efficient Oil-Water Remediation. <i>Advanced Materials</i> , 2018, 30, e1801870.	21.0	176
31	Elastic substrates for stretchable devices. <i>MRS Bulletin</i> , 2017, 42, 103-107.	3.5	39
32	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. <i>Advanced Materials</i> , 2017, 29, 1701780.	21.0	68
33	3D Printed Photoresponsive Devices Based on Shape Memory Composites. <i>Advanced Materials</i> , 2017, 29, 1701627.	21.0	370
34	High-Adhesion Stretchable Electrodes Based on Nanopile Interlocking. <i>Advanced Materials</i> , 2017, 29, 1603382.	21.0	168
35	3D Macroporous Nitrogen-Enriched Graphitic Carbon Scaffold for Efficient Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601364.	19.5	146
36	High-Performance Photothermal Conversion of Narrow-Bandgap Ti ₂ O ₃ Nanoparticles. <i>Advanced Materials</i> , 2017, 29, 1603730.	21.0	766

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37	Design of Architectures and Materials in In-Plane Micro-supercapacitors: Current Status and Future Challenges. <i>Advanced Materials</i> , 2017, 29, 1602802.	21.0	373
38	Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. <i>Advanced Materials</i> , 2017, 29, 1702800.	21.0	144
39	Bioinspired Nanosucker Array for Enhancing Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Materials</i> , 2016, 28, 270-275.	21.0	92
40	Memory Arrays: Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture (Adv. Mater. 8/2016). <i>Advanced Materials</i> , 2016, 28, 1526-1526.	21.0	3
41	Enhanced Cathodic Oxygen Reduction and Power Production of Microbial Fuel Cell Based on Noble-Metal-Free Electrocatalyst Derived from Metal-Organic Frameworks. <i>Advanced Energy Materials</i> , 2016, 6, 1501497.	19.5	241
42	Thin-film organic semiconductor devices: from flexibility to ultraflexibility. <i>Science China Materials</i> , 2016, 59, 589-608.	6.3	32
43	Soft Thermal Sensor with Mechanical Adaptability. <i>Advanced Materials</i> , 2016, 28, 9175-9181.	21.0	201
44	Stretchable Organic Semiconductor Devices. <i>Advanced Materials</i> , 2016, 28, 9243-9265.	21.0	188
45	Biomass-Derived Porous Fe ₃ C/Tungsten Carbide/Graphitic Carbon Nanocomposite for Efficient Electrocatalysis of Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32307-32316.	8.0	88
46	Conductive Inks Based on a Lithium Titanate Nanotube Gel for High-Rate Lithium-Ion Batteries with Customized Configuration. <i>Advanced Materials</i> , 2016, 28, 1567-1576.	21.0	178
47	Bio-Inspired Mechanotactic Hybrids for Orchestrating Traction-Mediated Epithelial Migration. <i>Advanced Materials</i> , 2016, 28, 3102-3110.	21.0	66
48	Prolonged Electron Lifetime in Ordered TiO ₂ Mesophyll Cell-Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. <i>Small</i> , 2016, 12, 2291-2299.	10.0	50
49	Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. <i>Advanced Materials</i> , 2016, 28, 1559-1566.	21.0	173
50	Nanostructures: Highly Stretchable Gold Nanobelts with Sinusoidal Structures for Recording Electrocardiograms (Adv. Mater. 20/2015). <i>Advanced Materials</i> , 2015, 27, 3219-3219.	21.0	4
51	Self-Protection of Electrochemical Storage Devices via a Thermal Reversible Sol-Gel Transition. <i>Advanced Materials</i> , 2015, 27, 5593-5598.	21.0	94
52	Thickness-Gradient Films for High Gauge Factor Stretchable Strain Sensors. <i>Advanced Materials</i> , 2015, 27, 6230-6237.	21.0	300
53	Highly Stretchable Gold Nanobelts with Sinusoidal Structures for Recording Electrocardiograms. <i>Advanced Materials</i> , 2015, 27, 3145-3151.	21.0	145
54	Suspended Wavy Graphene Microribbons for Highly Stretchable Microsupercapacitors. <i>Advanced Materials</i> , 2015, 27, 5559-5566.	21.0	268

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55	Highly Efficient Phosphate Scavenger Based on Well-Dispersed La(OH) ₃ Nanorods in Polyacrylonitrile Nanofibers for Nutrient-Starvation Antibacteria. ACS Nano, 2015, 9, 9292-9302.	14.6	177
56	Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries (Angew. Chem. Int. Ed. Engl. 2015, 54, 1071-1075)	10.8	107
57	Three-Dimensional Graphene Composite Macroscopic Structures for Capture of Cancer Cells. Advanced Materials Interfaces, 2014, 1, 1300043.	3.7	82
58	Bio-inspired antireflective hetero-nanojunctions with enhanced photoactivity. Nanoscale, 2013, 5, 12383.	5.6	39