

Dianpeng Qi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6341315/publications.pdf>

Version: 2024-02-01

58
papers

7,838
citations

81743

39
h-index

143772

57
g-index

62
all docs

62
docs citations

62
times ranked

10997
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Photothermal Conversion of Narrow-Bandgap TiO ₂ Nanoparticles. <i>Advanced Materials</i> , 2017, 29, 1603730.	11.1	766
2	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.	6.6	464
3	Design of Architectures and Materials in In-Plane Micro-supercapacitors: Current Status and Future Challenges. <i>Advanced Materials</i> , 2017, 29, 1602802.	11.1	373
4	3D Printed Photoresponsive Devices Based on Shape Memory Composites. <i>Advanced Materials</i> , 2017, 29, 1701627.	11.1	370
5	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, e1706589.	11.1	349
6	Stretchable Electronics Based on PDMS Substrates. <i>Advanced Materials</i> , 2021, 33, e2003155.	11.1	319
7	Thickness-Gradient Films for High Gauge Factor Stretchable Strain Sensors. <i>Advanced Materials</i> , 2015, 27, 6230-6237.	11.1	300
8	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO ₂ Nanowire Composite. <i>Advanced Materials</i> , 2018, 30, 1704531.	11.1	270
9	Suspended Wavy Graphene Microribbons for Highly Stretchable Microsupercapacitors. <i>Advanced Materials</i> , 2015, 27, 5559-5566.	11.1	268
10	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.	10.2	241
11	Plasticizing Silk Protein for On-Skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018, 30, e1800129.	11.1	230
12	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, 1704229.	11.1	208
13	Soft Thermal Sensor with Mechanical Adaptability. <i>Advanced Materials</i> , 2016, 28, 9175-9181.	11.1	201
14	Stretchable Organic Semiconductor Devices. <i>Advanced Materials</i> , 2016, 28, 9243-9265.	11.1	188
15	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.	11.1	178
16	Highly Efficient Phosphate Scavenger Based on Well-Dispersed La(OH) ₃ Nanorods in Polyacrylonitrile Nanofibers for Nutrient-Starvation Antibacteria. <i>ACS Nano</i> , 2015, 9, 9292-9302.	7.3	177
17	Calcuable Polymer Membrane with Revivability for Efficient Oily-Water Remediation. <i>Advanced Materials</i> , 2018, 30, e1801870.	11.1	176
18	Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. <i>Advanced Materials</i> , 2016, 28, 1559-1566.	11.1	173

#	ARTICLE	IF	CITATIONS
19	Highly Adhesion Stretchable Electrodes Based on Nanopile Interlocking. <i>Advanced Materials</i> , 2017, 29, 1603382.	11.1	168
20	3D Macroporous Nitrogen-Enriched Graphitic Carbon Scaffold for Efficient Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601364.	10.2	146
21	Highly Stretchable Gold Nanobelts with Sinusoidal Structures for Recording Electrocardiograms. <i>Advanced Materials</i> , 2015, 27, 3145-3151.	11.1	145
22	Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. <i>Advanced Materials</i> , 2017, 29, 1702800.	11.1	144
23	Polymeric Membranes with Selective Solution-Diffusion for Intercepting Volatile Organic Compounds during Solar-Driven Water Remediation. <i>Advanced Materials</i> , 2020, 32, e2004401.	11.1	142
24	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020, 32, e1905399.	11.1	126
25	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.	4.6	108
26	Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring. , 2020, 2, 478-484.		107
27	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018, 30, e1706395.	11.1	100
28	Stretchable Conductive Fibers Based on a Cracking Control Strategy for Wearable Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1801683.	7.8	100
29	Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. <i>Advanced Materials</i> , 2019, 31, e1901360.	11.1	96
30	Self-Protection of Electrochemical Storage Devices via a Thermal Reversible Sol-Gel Transition. <i>Advanced Materials</i> , 2015, 27, 5593-5598.	11.1	94
31	Bioinspired Nanosucker Array for Enhancing Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Materials</i> , 2016, 28, 270-275.	11.1	92
32	Mechano-Based Transductive Sensing for Wearable Healthcare. <i>Small</i> , 2018, 14, e1702933.	5.2	91
33	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.	4.0	88
34	3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. <i>Advanced Materials</i> , 2018, 30, e1707285.	11.1	86
35	Three-Dimensional Graphene Composite Macroscopic Structures for Capture of Cancer Cells. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300043.	1.9	82
36	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2019, 31, e1903130.	11.1	82

#	ARTICLE	IF	CITATIONS
37	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. <i>Advanced Materials</i> , 2017, 29, 1701780.	11.1	68
38	Bio-inspired Mechanotactic Hybrids for Orchestrating Traction-mediated Epithelial Migration. <i>Advanced Materials</i> , 2016, 28, 3102-3110.	11.1	66
39	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.	5.2	50
40	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. <i>Advanced Materials</i> , 2019, 31, e1803883.	11.1	45
41	Bio-inspired antireflective hetero-nanojunctions with enhanced photoactivity. <i>Nanoscale</i> , 2013, 5, 12383.	2.8	39
42	Elastic substrates for stretchable devices. <i>MRS Bulletin</i> , 2017, 42, 103-107.	1.7	39
43	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.	7.2	33
44	Thin-film organic semiconductor devices: from flexibility to ultraflexibility. <i>Science China Materials</i> , 2016, 59, 589-608.	3.5	32
45	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.	4.6	25
46	Hollow black TiAlO _x nanocomposites for solar thermal desalination. <i>Nanoscale</i> , 2019, 11, 9958-9968.	2.8	23
47	From liquid metal to stretchable electronics: Overcoming the surface tension. <i>Science China Materials</i> , 2022, 65, 2072-2088.	3.5	22
48	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.	5.2	21
49	Electrostatic Interaction-Based High Tissue Adhesive, Stretchable Microelectrode Arrays for the Electrophysiological Interface. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4852-4861.	4.0	20
50	Strategies for interface issues and challenges of neural electrodes. <i>Nanoscale</i> , 2022, 14, 3346-3366.	2.8	18
51	CoFe ₂ O ₄ Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSM-5 Catalysts. <i>Advanced Functional Materials</i> , 2018, 28, 1802088.	7.8	15
52	Photothermal Janus Anode with Photosynthesis-shielding Effect for Activating Low-temperature Biological Wastewater Treatment. <i>Advanced Functional Materials</i> , 2020, 30, 1909432.	7.8	14
53	Interface Chelation Induced by Pyridine-based Polymer for Efficient and Durable Air-Processed Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	10
54	Nanostructures: Highly Stretchable Gold Nanobelts with Sinusoidal Structures for Recording Electroencephalograms (Adv. Mater. 20/2015). <i>Advanced Materials</i> , 2015, 27, 3219-3219.	11.1	4

#	ARTICLE	IF	CITATIONS
55	Memory Arrays: Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture (Adv. Mater. 8/2016). Advanced Materials, 2016, 28, 1526-1526.	11.1	3
56	Photothermal Janus Anodes: Photothermal Janus Anode with Photosynthesis-Induced Shielding Effect for Activating Low-Temperature Biological Wastewater Treatment (Adv. Funct. Mater. 7/2020). Advanced Functional Materials, 2020, 30, 2070045.	7.8	1
57	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.)	17.8	14
58	High Sensitive Ultrathin Wearable Sensor for Physiological Signal Monitoring. , 2021, , .		0