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	81900 39 h-index	144013 57 g-index
62 all docs	62 docs citations	62 times ranked	10997 citing authors

#	Article	IF	Citations
1	Highâ€Performance Photothermal Conversion of Narrowâ€Bandgap Ti₂O₃ Nanoparticles. Advanced Materials, 2017, 29, 1603730.	21.0	766
2	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. Journal of the American Chemical Society, 2018, 140, 5280-5289.	13.7	464
3	Design of Architectures and Materials in Inâ€Plane Microâ€supercapacitors: Current Status and Future Challenges. Advanced Materials, 2017, 29, 1602802.	21.0	373
4	3D Printed Photoresponsive Devices Based on Shape Memory Composites. Advanced Materials, 2017, 29, 1701627.	21.0	370
5	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. Advanced Materials, 2018, 30, e1706589.	21.0	349
6	Stretchable Electronics Based on PDMS Substrates. Advanced Materials, 2021, 33, e2003155.	21.0	319
7	Thicknessâ€Gradient Films for High Gauge Factor Stretchable Strain Sensors. Advanced Materials, 2015, 27, 6230-6237.	21.0	300
8	Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO₂ Nanowire Composite. Advanced Materials, 2018, 30, 1704531.	21.0	270
9	Suspended Wavy Graphene Microribbons for Highly Stretchable Microsupercapacitors. Advanced Materials, 2015, 27, 5559-5566.	21.0	268
10	Enhanced Cathodic Oxygen Reduction and Power Production of Microbial Fuel Cell Based on Nobleâ€Metalâ€Free Electrocatalyst Derived from Metalâ€Organic Frameworks. Advanced Energy Materials, 2016, 6, 1501497.	19.5	241
11	Plasticizing Silk Protein for Onâ€Skin Stretchable Electrodes. Advanced Materials, 2018, 30, e1800129.	21.0	230
12	Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiberâ€Shaped Stretchable Strain Sensors. Advanced Materials, 2018, 30, 1704229.	21.0	208
13	Soft Thermal Sensor with Mechanical Adaptability. Advanced Materials, 2016, 28, 9175-9181.	21.0	201
14	Stretchable Organic Semiconductor Devices. Advanced Materials, 2016, 28, 9243-9265.	21.0	188
15	Conductive Inks Based on a Lithium Titanate Nanotube Gel for Highâ€Rate Lithiumâ€Ion Batteries with Customized Configuration. Advanced Materials, 2016, 28, 1567-1576.	21.0	178
16	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
17	Calcinable Polymer Membrane with Revivability for Efficient Oilyâ€Water Remediation. Advanced Materials, 2018, 30, e1801870.	21.0	176
18	Skinâ€Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. Advanced Materials, 2016, 28, 1559-1566.	21.0	173

#	Article	IF	Citations
19	Highâ€Adhesion Stretchable Electrodes Based on Nanopile Interlocking. Advanced Materials, 2017, 29, 1603382.	21.0	168
20	3D Macroporous Nitrogenâ€Enriched Graphitic Carbon Scaffold for Efficient Bioelectricity Generation in Microbial Fuel Cells. Advanced Energy Materials, 2017, 7, 1601364.	19.5	146
21	Highly Stretchable Gold Nanobelts with Sinusoidal Structures for Recording Electrocorticograms. Advanced Materials, 2015, 27, 3145-3151.	21.0	145
22	Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. Advanced Materials, 2017, 29, 1702800.	21.0	144
23	Polymeric Membranes with Selective Solutionâ€Diffusion for Intercepting Volatile Organic Compounds during Solarâ€Driven Water Remediation. Advanced Materials, 2020, 32, e2004401.	21.0	142
24	An Artificial Somatic Reflex Arc. Advanced Materials, 2020, 32, e1905399.	21.0	126
25	Volatile-Organic-Compound-Intercepting Solar Distillation Enabled by a Photothermal/Photocatalytic Nanofibrous Membrane with Dual-Scale Pores. Environmental Science & Technology, 2020, 54, 9025-9033.	10.0	108
26	Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring. , 2020, 2, 478-484.		107
27	Mediating Shortâ€Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. Advanced Materials, 2018, 30, e1706395.	21.0	100
28	Stretchable Conductive Fibers Based on a Cracking Control Strategy for Wearable Electronics. Advanced Functional Materials, 2018, 28, 1801683.	14.9	100
29	Highly Stable and Stretchable Conductive Films through Thermalâ€Radiationâ€Assisted Metal Encapsulation. Advanced Materials, 2019, 31, e1901360.	21.0	96
30	Selfâ€Protection of Electrochemical Storage Devices via a Thermal Reversible Solâ€“Gel Transition. Advanced Materials, 2015, 27, 5593-5598.	21.0	94
31	Bioinspired Nanosucker Array for Enhancing Bioelectricity Generation in Microbial Fuel Cells. Advanced Materials, 2016, 28, 270-275.	21.0	92
32	Mechanoâ€Based Transductive Sensing for Wearable Healthcare. Small, 2018, 14, e1702933.	10.0	91
33	Biomass-Derived Porous Fe₃C/Tungsten Carbide/Graphitic Carbon Nanocomposite for Efficient Electrocatalysis of Oxygen Reduction. ACS Applied Materials & Interfaces, 2016, 8, 32307-32316.	8.0	88
34	3Dâ€Structured Stretchable Strain Sensors for Outâ€ofâ€Plane Force Detection. Advanced Materials, 2018, 30, e1707285.	21.0	86
35	Threeâ€Dimensional Graphene Composite Macroscopic Structures for Capture of Cancer Cells. Advanced Materials Interfaces, 2014, 1, 1300043.	3.7	82
36	Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. Advanced Materials, 2019, 31, e1903130.	21.0	82

#	Article	IF	Citations
37	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. Advanced Materials, 2017, 29, 1701780.	21.0	68
38	Bioâ€Inspired Mechanotactic Hybrids for Orchestrating Tractionâ€Mediated Epithelial Migration. Advanced Materials, 2016, 28, 3102-3110.	21.0	66
39	Prolonged Electron Lifetime in Ordered TiO₂ Mesophyll Cellâ€Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. Small, 2016, 12, 2291-2299.	10.0	50
40	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. Advanced Materials, 2019, 31, e1803883.	21.0	45
41	Bio-inspired antireflective hetero-nanojunctions with enhanced photoactivity. Nanoscale, 2013, 5, 12383.	5.6	39
42	Elastic substrates for stretchable devices. MRS Bulletin, 2017, 42, 103-107.	3.5	39
43	Interface Chelation Induced by Pyridineâ€Based Polymer for Efficient and Durable Airâ€Processed Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, e202112673.	13.8	33
44	Thin-film organic semiconductor devices: from flexibility to ultraflexibility. Science China Materials, 2016, 59, 589-608.	6.3	32
45	A Light-Permeable Solar Evaporator with Three-Dimensional Photocatalytic Sites to Boost Volatile-Organic-Compound Rejection for Water Purification. Environmental Science & Technology, 2022, 56, 9797-9805.	10.0	25
46	Hollow black TiAlO_x nanocomposites for solar thermal desalination. Nanoscale, 2019, 11, 9958-9968.	5.6	23
47	From liquid metal to stretchable electronics: Overcoming the surface tension. Science China Materials, 2022, 65, 2072-2088.	6.3	22
48	A solar-electro-thermal evaporation system with high water-production based on a facile integrated evaporator. Journal of Materials Chemistry A, 2020, 8, 21771-21779.	10.3	21
49	Electrostatic Interaction-Based High Tissue Adhesive, Stretchable Microelectrode Arrays for the Electrophysiological Interface. ACS Applied Materials & Interfaces, 2022, 14, 4852-4861.	8.0	20
50	Strategies for interface issues and challenges of neural electrodes. Nanoscale, 2022, 14, 3346-3366.	5.6	18
51	CoFe₂O₄ Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSMâ€5 Catalysts. Advanced Functional Materials, 2018, 28, 1802088.	14.9	15
52	Photothermal Janus Anode with Photosynthesisâ€Shielding Effect for Activating Lowâ€Temperature Biological Wastewater Treatment. Advanced Functional Materials, 2020, 30, 1909432.	14.9	14
53	Interface Chelation Induced by Pyridineâ€Based Polymer for Efficient and Durable Airâ€Processed Perovskite Solar Cells. Angewandte Chemie, 2022, 134, .	2.0	10
54	Nanostructures: Highly Stretchable Gold Nanobelts with Sinusoidal Structures for Recording Electrocorticograms (Adv. Mater. 20/2015). Advanced Materials, 2015, 27, 3219-3219.	21.0	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.	21.0	3
56	Photothermal Janus Anodes: Photothermal Janus Anode with Photosynthesisâ€Shielding Effect for Activating Lowâ€Temperature Biological Wastewater Treatment (Adv. Funct. Mater. 7/2020). Advanced Functional Materials, 2020, 30, 2070045.	14.9	1
57	RÃ¼cktitelbild: 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.) Tj ETQq1 1 0.784314 rgBT /Ove	2.8	0
58	High Sensitive Ultrathin Wearable Sensor for Physiological Signal Monitoring. , 2021, , .		0