

Dianpeng Qi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

5,464
citations

39
h-index

62
g-index

62
ext. papers

6,629
ext. citations

17.8
avg, IF

5.81
L-index

| # | Paper | IF | Citations |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 57 | Electrostatic Interaction-Based High Tissue Adhesive, Stretchable Microelectrode Arrays for the Electrophysiological Interface.. <i>ACS Applied Materials & Interfaces</i> , 2022 , | 9.5 | 4 |
| 56 | Strategies for interface issues and challenges of neural electrodes.. <i>Nanoscale</i> , 2022 , | 7.7 | 4 |
| 55 | Interface Chelation Induced by Pyridine-Based Polymer for Efficient and Durable Air-Processed Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202112673 | 16.4 | 3 |
| 54 | Stretchable Electronics Based on PDMS Substrates. <i>Advanced Materials</i> , 2021 , 33, e2003155 | 24 | 98 |
| 53 | Polymeric Membranes with Selective Solution-Diffusion for Intercepting Volatile Organic Compounds during Solar-Driven Water Remediation. <i>Advanced Materials</i> , 2020 , 32, e2004401 | 24 | 54 |
| 52 | Adhesive Biocomposite Electrodes on Sweaty Skin for Long-Term Continuous Electrophysiological Monitoring 2020 , 2, 478-484 | | 55 |
| 51 | 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 | 10.3 | 50 |
| 50 | Photothermal Janus Anodes: Photothermal Janus Anode with Photosynthesis-Shielding Effect for Activating Low-Temperature Biological Wastewater Treatment (Adv. Funct. Mater. 7/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070045 | 15.6 | 1 |
| 49 | Photothermal Janus Anode with Photosynthesis-Shielding Effect for Activating Low-Temperature Biological Wastewater Treatment. <i>Advanced Functional Materials</i> , 2020 , 30, 1909432 | 15.6 | 8 |
| 48 | An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020 , 32, e1905399 | 24 | 64 |
| 47 | 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 | 13 | 10 |
| 46 | Hollow black TiAlO nanocomposites for solar thermal desalination. <i>Nanoscale</i> , 2019 , 11, 9958-9968 | 7.7 | 14 |
| 45 | Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. <i>Advanced Materials</i> , 2019 , 31, e1901360 | 24 | 56 |
| 44 | Mechanocombinatorially Screening Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2019 , 31, e1903130 | 24 | 47 |
| 43 | Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. <i>Advanced Materials</i> , 2019 , 31, e1803883 | 24 | 34 |
| 42 | Flexible Supercapacitors Based on Two-Dimensional Materials 2018 , 161-197 | | 2 |
| 41 | Plasticizing Silk Protein for On-Skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1800129 | 24 | 160 |

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| 40 | Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018 , 30, e1706589 | 24 | 213 |
| 39 | Mechano-Based Transductive Sensing for Wearable Healthcare. <i>Small</i> , 2018 , 14, e1702933 | 11 | 66 |
| 38 | Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018 , 30, e1706395 | 24 | 69 |
| 37 | 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 | 16.4 | 312 |
| 36 | CoFe ₂ O ₄ Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSM-5 Catalysts. <i>Advanced Functional Materials</i> , 2018 , 28, 1802088 | 15.6 | 10 |
| 35 | Calcinable Polymer Membrane with Revivability for Efficient Oily-Water Remediation. <i>Advanced Materials</i> , 2018 , 30, e1801870 | 24 | 139 |
| 34 | Surface Strain Redistribution on Structured Microfibers to Enhance Sensitivity of Fiber-Shaped Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018 , 30, 1704229 | 24 | 159 |
| 33 | Editable Supercapacitors with Customizable Stretchability Based on Mechanically Strengthened Ultralong MnO Nanowire Composite. <i>Advanced Materials</i> , 2018 , 30, 1704531 | 24 | 202 |
| 32 | 3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. <i>Advanced Materials</i> , 2018 , 30, e1707285 | 24 | 62 |
| 31 | Stretchable Conductive Fibers Based on a Cracking Control Strategy for Wearable Electronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1801683 | 15.6 | 67 |
| 30 | Elastic substrates for stretchable devices. <i>MRS Bulletin</i> , 2017 , 42, 103-107 | 3.2 | 30 |
| 29 | Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. <i>Advanced Materials</i> , 2017 , 29, 1702800 | 24 | 110 |
| 28 | Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. <i>Advanced Materials</i> , 2017 , 29, 1701780 | 24 | 55 |
| 27 | 3D Printed Photoresponsive Devices Based on Shape Memory Composites. <i>Advanced Materials</i> , 2017 , 29, 1701627 | 24 | 257 |
| 26 | High-Adhesion Stretchable Electrodes Based on Nanopile Interlocking. <i>Advanced Materials</i> , 2017 , 29, 1603382 | 24 | 122 |
| 25 | 3D Macroporous Nitrogen-Enriched Graphitic Carbon Scaffold for Efficient Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601364 | 21.8 | 102 |
| 24 | High-Performance Photothermal Conversion of Narrow-Bandgap TiO ₂ Nanoparticles. <i>Advanced Materials</i> , 2017 , 29, 1603730 | 24 | 529 |
| 23 | Design of Architectures and Materials in In-Plane Micro-supercapacitors: Current Status and Future Challenges. <i>Advanced Materials</i> , 2017 , 29, 1602802 | 24 | 295 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 22 | Thin-film organic semiconductor devices: from flexibility to ultraflexibility. <i>Science China Materials</i> , 2016 , 59, 589-608 | 7.1 | 27 |
| 21 | Soft Thermal Sensor with Mechanical Adaptability. <i>Advanced Materials</i> , 2016 , 28, 9175-9181 | 24 | 155 |
| 20 | Stretchable Organic Semiconductor Devices. <i>Advanced Materials</i> , 2016 , 28, 9243-9265 | 24 | 139 |
| 19 | Biomass-Derived Porous FeC/Tungsten Carbide/Graphitic Carbon Nanocomposite for Efficient Electrocatalysis of Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32307-32316 | 9.5 | 73 |
| 18 | Conductive Inks Based on a Lithium Titanate Nanotube Gel for High-Rate Lithium-Ion Batteries with Customized Configuration. <i>Advanced Materials</i> , 2016 , 28, 1567-76 | 24 | 154 |
| 17 | Bio-Inspired Mechanotactic Hybrids for Orchestrating Traction-Mediated Epithelial Migration. <i>Advanced Materials</i> , 2016 , 28, 3102-10 | 24 | 56 |
| 16 | Prolonged Electron Lifetime in Ordered TiO ₂ Mesophyll Cell-Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. <i>Small</i> , 2016 , 12, 2291-9 | 11 | 45 |
| 15 | Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. <i>Advanced Materials</i> , 2016 , 28, 1559-66 | 24 | 135 |
| 14 | Bioinspired Nanosucker Array for Enhancing Bioelectricity Generation in Microbial Fuel Cells. <i>Advanced Materials</i> , 2016 , 28, 270-5 | 24 | 81 |
| 13 | Memory Arrays: Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture (Adv. Mater. 8/2016). <i>Advanced Materials</i> , 2016 , 28, 1526-1526 | 24 | 3 |
| 12 | 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 | 21.8 | 207 |
| 11 | Highly stretchable gold nanobelts with sinusoidal structures for recording electrocorticograms. <i>Advanced Materials</i> , 2015 , 27, 3145-51 | 24 | 114 |
| 10 | Suspended Wavy Graphene Microribbons for Highly Stretchable Microsupercapacitors. <i>Advanced Materials</i> , 2015 , 27, 5559-66 | 24 | 228 |
| 9 | 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, 9292-302 | 16.7 | 123 |
| 8 | Nanostructures: Highly Stretchable Gold Nanobelts with Sinusoidal Structures for Recording Electrocorticograms (Adv. Mater. 20/2015). <i>Advanced Materials</i> , 2015 , 27, 3219-3219 | 24 | 4 |
| 7 | Self-Protection of Electrochemical Storage Devices via a Thermal Reversible Sol-Gel Transition. <i>Advanced Materials</i> , 2015 , 27, 5593-8 | 24 | 73 |
| 6 | Thickness-Gradient Films for High Gauge Factor Stretchable Strain Sensors. <i>Advanced Materials</i> , 2015 , 27, 6230-7 | 24 | 230 |
| 5 | Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2014 , 126, 13706-13710 | 3.6 | 28 |

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| 4 | Rektitelbild: 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. 49/2014). <i>Angewandte Chemie</i> , 2014 , 126, 13840-13840 | 3.6 | |
| 3 | Three-Dimensional Graphene Composite Macroscopic Structures for Capture of Cancer Cells. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300043 | 4.6 | 77 |
| 2 | Bio-inspired antireflective hetero-nanojunctions with enhanced photoactivity. <i>Nanoscale</i> , 2013 , 5, 12383-12387 | 3.7 | 39 |
| 1 | From liquid metal to stretchable electronics: Overcoming the surface tension. <i>Science China Materials</i> , 2014 , 7, 1-6 | 7.1 | 2 |