# Yi-Zhou Zhang

## List of Publications by Citations



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| 74 papers | 5,908 citations | 38 h-index | 75 g-index |
| 75 ext. papers | 7,578 ext. citations | 14.7 avg, IF | 6.34 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 74 | Flexible supercapacitors based on paper substrates: a new paradigm for low-cost energy storage. *Chemical Society Reviews*, **2015**, 44, 5181-99 | 58.5 | 455 |
| 73 | Stretchable TiCT MXene/Carbon Nanotube Composite Based Strain Sensor with Ultrahigh Sensitivity and Tunable Sensing Range. *ACS Nano*, **2018**, 12, 56-62 | 16.7 | 437 |
| 72 | Printable Transparent Conductive Films for Flexible Electronics. *Advanced Materials*, **2018**, 30, 1704738 | 24 | 338 |
| 71 | MXenes stretch hydrogel sensor performance to new limits. *Science Advances*, **2018**, 4, eaat0098 | 14.3 | 334 |
| 70 | Stretchable Thin-Film Electrodes for Flexible Electronics with High Deformability and Stretchability. *Advanced Materials*, **2015**, 27, 3349-76 | 24 | 333 |
| 69 | Stretchable, Transparent, and Self-Patterned Hydrogel-Based Pressure Sensor for Human Motions Detection. *Advanced Functional Materials*, **2018**, 28, 1802576 | 15.6 | 282 |
| 68 | Printed supercapacitors: materials, printing and applications. *Chemical Society Reviews*, **2019**, 48, 3229-3264 | 58.5 | 222 |
| 67 | Porous hollow Co□□ with rhombic dodecahedral structures for high-performance supercapacitors. *Nanoscale*, **2014**, 6, 14354-9 | 7.7 | 215 |
| 66 | A Simple Approach to Boost Capacitance: Flexible Supercapacitors Based on Manganese Oxides@MOFs via Chemically Induced In Situ Self-Transformation. *Advanced Materials*, **2016**, 28, 5242-8 | 24 | 190 |
| 65 | A flexible pressure sensor based on rGO/polyaniline wrapped sponge with tunable sensitivity for human motion detection. *Nanoscale*, **2018**, 10, 10033-10040 | 7.7 | 170 |
| 64 | High-performance free-standing PEDOT:PSS electrodes for flexible and transparent all-solid-state supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 10493-10499 | 13 | 158 |
| 63 | A MXene-Based Wearable Biosensor System for High-Performance In Vitro Perspiration Analysis. *Small*, **2019**, 15, e1901190 | 11 | 157 |
| 62 | Inkjet printing of □MnO2 nanosheets for flexible solid-state micro-supercapacitor. *Nano Energy*, **2018**, 49, 481-488 | 17.1 | 154 |
| 61 | Lamellar K2Co3(P2O7)2□2H2O nanocrystal whiskers: High-performance flexible all-solid-state asymmetric micro-supercapacitors via inkjet printing. *Nano Energy*, **2015**, 15, 303-312 | 17.1 | 153 |
| 60 | MXene hydrogels: fundamentals and applications. *Chemical Society Reviews*, **2020**, 49, 7229-7251 | 58.5 | 135 |
| 59 | Inkjet-printed flexible, transparent and aesthetic energy storage devices based on PEDOT:PSS/Ag grid electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 13754-13763 | 13 | 130 |
| 58 | Amorphous nickel pyrophosphate microstructures for high-performance flexible solid-state electrochemical energy storage devices. *Nano Energy*, **2015**, 17, 339-347 | 17.1 | 117 |

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| 57 | MXene Printing and Patterned Coating for Device Applications. *Advanced Materials*, **2020**, 32, e1908486 | 24 | 116 |
| 56 | Highly stretchable and autonomously healable epidermal sensor based on multi-functional hydrogel frameworks. *Journal of Materials Chemistry A*, **2019**, 7, 5949-5956 | 13 | 109 |
| 55 | Redox-active triazatruxene-based conjugated microporous polymers for high-performance supercapacitors. *Chemical Science*, **2017**, 8, 2959-2965 | 9.4 | 103 |
| 54 | Selective synthesis of nickel oxide nanowires and length effect on their electrochemical properties. *Nanoscale*, **2010**, 2, 920-2 | 7.7 | 91 |
| 53 | A novel strategy for the synthesis of highly stable ternary SiOx composites for Li-ion-battery anodes. *Journal of Materials Chemistry A*, **2019**, 7, 15969-15974 | 13 | 89 |
| 52 | High-performance stretchable transparent electrodes based on silver nanowires synthesized via an eco-friendly halogen-free method. *Journal of Materials Chemistry C*, **2014**, 2, 10369-10376 | 7.1 | 84 |
| 51 | Carbon-intercalated Ti3C2Tx MXene for high-performance electrochemical energy storage. *Journal of Materials Chemistry A*, **2018**, 6, 23513-23520 | 13 | 81 |
| 50 | Uniform manganese hexacyanoferrate hydrate nanocubes featuring superior performance for low-cost supercapacitors and nonenzymatic electrochemical sensors. *Nanoscale*, **2015**, 7, 16012-9 | 7.7 | 79 |
| 49 | Partially Reduced Holey Graphene Oxide as High Performance Anode for Sodium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803215 | 21.8 | 68 |
| 48 | Template-Assisted Synthesis of Nickel Sulfide Nanowires: Tuning the Compositions for Supercapacitors with Improved Electrochemical Stability. *ACS Applied Materials & Interfaces*, **2016**, 8, 24645-51 | 9.5 | 66 |
| 47 | On-Chip MXene Microsupercapacitors for AC-Line Filtering Applications. *Advanced Energy Materials*, **2019**, 9, 1901061 | 21.8 | 64 |
| 46 | Facile one-pot synthesis of NiCo2O4 hollow spheres with controllable number of shells for high-performance supercapacitors. *Nano Research*, **2017**, 10, 405-414 | 10 | 57 |
| 45 | 3D Printed Microfluidic Device with Microporous MnO-Modified Screen Printed Electrode for Real-Time Determination of Heavy Metal Ions. *ACS Applied Materials & Interfaces*, **2016**, 8, 32940-32947 | 9.5 | 57 |
| 44 | Inkjet-Printed High-Performance Flexible Micro-Supercapacitors with Porous Nanofiber-Like Electrode Structures. *Small*, **2019**, 15, e1901830 | 11 | 54 |
| 43 | Conductive Hydrogel-Based Electrodes and Electrolytes for Stretchable and Self-Healable Supercapacitors. *Advanced Functional Materials*, **2021**, 31, 2101303 | 15.6 | 52 |
| 42 | TiCT MXene-Activated Fast Gelation of Stretchable and Self-Healing Hydrogels: A Molecular Approach. *ACS Nano*, **2021**, 15, 2698-2706 | 16.7 | 52 |
| 41 | Defect engineering of MnO2 nanosheets by substitutional doping for printable solid-state micro-supercapacitors. *Nano Energy*, **2020**, 68, 104306 | 17.1 | 47 |
| 40 | Room temperature synthesis of cobalt-manganese-nickel oxalates micropolyhedrons for high-performance flexible electrochemical energy storage device. *Scientific Reports*, **2015**, 5, 8536 | 4.9 | 46 |

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| 39 | Metal Organic Framework Derived Core□Shell Structured Co9S8@N[□email□protected]2 Nanocubes for Supercapacitor. *ACS Applied Energy Materials*, **2018**, 1, 3513-3520 | 6.1 | 44 |
| 38 | Ultrasound-Driven Two-Dimensional TiCT MXene Hydrogel Generator. *ACS Nano*, **2020**, 14, 3199-3207 | 16.7 | 43 |
| 37 | Fiber-based all-solid-state asymmetric supercapacitors based on Co3O4@MnO2 core/shell nanowire arrays. *Journal of Materials Chemistry A*, **2017**, 5, 22939-22944 | 13 | 39 |
| 36 | FeO/SnSSe Hexagonal Nanoplates as Lithium-Ion Batteries Anode. *ACS Applied Materials & Interfaces*, **2018**, 10, 12722-12730 | 9.5 | 38 |
| 35 | Graphene as an intermediary for enhancing the electron transfer rate: A free-standing Ni3S2@graphene@Co9S8 electrocatalytic electrode for oxygen evolution reaction. *Nano Research*, **2018**, 11, 1389-1398 | 10 | 38 |
| 34 | Codoped Holey Graphene Aerogel by Selective Etching for High-Performance Sodium-Ion Storage. *Advanced Energy Materials*, **2020**, 10, 2000099 | 21.8 | 29 |
| 33 | Ternary transition metal oxide derived from Prussian blue analogue for high-performance lithium ion battery. *Journal of Alloys and Compounds*, **2017**, 729, 518-525 | 5.7 | 28 |
| 32 | Porous dimanganese trioxide microflowers derived from microcoordinations for flexible solid-state asymmetric supercapacitors. *Nanoscale*, **2016**, 8, 11689-97 | 7.7 | 28 |
| 31 | Emerging Metal Single Atoms in Electrocatalysts and Batteries. *Advanced Functional Materials*, **2020**, 30, 2003870 | 15.6 | 25 |
| 30 | Template-Free Synthesis of Cobalt Silicate Nanoparticles Decorated Nanosheets for High Performance Lithium Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15591-15597 | 8.3 | 24 |
| 29 | Three-Dimensional CoSP Nanoflowers as Highly Stable Electrode Materials for Asymmetric Supercapacitors. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11448-11454 | 8.3 | 23 |
| 28 | Recent advances in anode materials for potassium-ion batteries: A review. *Nano Research*,1 | 10 | 23 |
| 27 | Bioinspired Controlled Synthesis of NiSe/Ni2P Nanoparticles Decorated 3D Porous Carbon for Li/Na Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 13217-13225 | 8.3 | 22 |
| 26 | Paper-based all-solid-state flexible asymmetric micro-supercapacitors fabricated by a simple pencil drawing methodology. *Chinese Chemical Letters*, **2018**, 29, 587-591 | 8.1 | 19 |
| 25 | S-Doped TiSe Nanoplates/Fe O Nanoparticles Heterostructure. *Small*, **2017**, 13, 1702181 | 11 | 16 |
| 24 | Recent advances in two-dimensional materials for alkali metal anodes. *Journal of Materials Chemistry A*, **2021**, 9, 5232-5257 | 13 | 16 |
| 23 | Flexible Supercapacitors: A Simple Approach to Boost Capacitance: Flexible Supercapacitors Based on Manganese Oxides@MOFs via Chemically Induced In Situ Self-Transformation (Adv. Mater. 26/2016). *Advanced Materials*, **2016**, 28, 5241 | 24 | 14 |
| 22 | Versatile MnO2/CNT Putty-Like Composites for High-Rate Lithium-Ion Batteries. *Advanced Materials Interfaces*, **2018**, 5, 1800362 | 4.6 | 14 |

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| 21 | Single-crystalline hyperbranched nanostructure of iron hydroxyl phosphate Fe5(PO4)4(OH)3□2H2O for highly selective capture of phosphopeptides. *Scientific Reports*, **2014**, 4, 3753 | 4.9 | 13 |
| 20 | MXenes for Energy Harvesting.. *Advanced Materials*, **2022**, e2108560 | 24 | 13 |
| 19 | Inkjet-printed Ti3C2Tx MXene electrodes for multimodal cutaneous biosensing. *JPhys Materials*, **2020**, 3, 044004 | 4.2 | 10 |
| 18 | 3D Printing of Hydrogels for Stretchable Ionotronic Devices. *Advanced Functional Materials*,2107437 | 15.6 | 10 |
| 17 | Artificial intelligent optoelectronic skin with anisotropic electrical and optical responses for multi-dimensional sensing. *Applied Physics Reviews*, **2022**, 9, 021403 | 17.3 | 10 |
| 16 | Additive-mediated intercalation and surface modification of MXenes.. *Chemical Society Reviews*, **2022**, | 58.5 | 9 |
| 15 | A Rapid Synthesis of High Aspect Ratio Silver Nanowires for High-Performance Transparent Electrodes. *Chinese Journal of Chemistry*, **2015**, 33, 147-151 | 4.9 | 8 |
| 14 | Tunable capacitance in all-inkjet-printed nanosheet heterostructures. *Energy Storage Materials*, **2021**, 36, 318-325 | 19.4 | 8 |
| 13 | MXene improves the stability and electrochemical performance of electropolymerized PEDOT films. *APL Materials*, **2020**, 8, 121105 | 5.7 | 7 |
| 12 | Controlled synthesis of nickel carbide nanoparticles and their application in lithium storage. *Chemical Engineering Journal*, **2018**, 352, 940-946 | 14.7 | 7 |
| 11 | Ionically Conductive Tunnels in h-WO Enable High-Rate NH Storage.. *Advanced Science*, **2022**, e2105158 | 13.6 | 6 |
| 10 | MXenes nanocomposites for energy storage and conversion. *Rare Metals*,1 | 5.5 | 5 |
| 9 | Muscle Fatigue Sensor Based on Ti C T MXene Hydrogel.. *Small Methods*, **2021**, 5, e2100819 | 12.8 | 5 |
| 8 | Recent progress in advanced flexible zinc ion battery design. *Applied Physics Reviews*, **2022**, 9, 021304 | 17.3 | 5 |
| 7 | Advances and Perspectives for the Application of Perovskite Oxides in Supercapacitors. *Energy & Fuels*, | 4.1 | 4 |
| 6 | Improving stability of MXenes. *Nano Research*, | 10 | 4 |
| 5 | Printable Electrode Materials for Supercapacitors **2021**, 1, 17-17 | | 3 |
| 4 | Printable Two-Dimensional V2O5/MXene Heterostructure Cathode for Lithium-Ion Battery. *Journal of the Electrochemical Society*, **2021**, 168, 020507 | 3.9 | 1 |

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| 3 | Conversion of hydroxide into carbon-coated phosphide using plasma for sodium ion batteries. *Nano Research*,1 | 10 | 1 |
| 2 | Printed Flexible Supercapacitors **2022**, 235-260 | | |
| 1 | Properties of MXenes. *Engineering Materials*, **2022**, 37-52 | 0.4 | |