

Xuetong Zhang

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90
papers

6,385
citations

41
h-index

79
g-index

96
ext. papers

7,464
ext. citations

9.7
avg, IF

6.18
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 90 | Mechanically strong and highly conductive graphene aerogel and its use as electrodes for electrochemical power sources. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6494 | | 818 |
| 89 | What is the choice for supercapacitors: graphene or graphene oxide?. <i>Energy and Environmental Science</i> , 2011 , 4, 2826 | 35.4 | 568 |
| 88 | Green synthesis of carbon nanotube/graphene hybrid aerogels and their use as versatile agents for water purification. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8767 | | 460 |
| 87 | Controllable synthesis of conducting polypyrrole nanostructures. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1158-65 | 3.4 | 353 |
| 86 | Easy and green synthesis of reduced graphite oxide-based hydrogels. <i>Carbon</i> , 2011 , 49, 4314-4321 | 10.4 | 217 |
| 85 | Multiresponsive Graphene-Aerogel-Directed Phase-Change Smart Fibers. <i>Advanced Materials</i> , 2018 , 30, e1801754 | 24 | 172 |
| 84 | Edge-to-edge assembled graphene oxide aerogels with outstanding mechanical performance and superhigh chemical activity. <i>Small</i> , 2013 , 9, 1397-404 | 11 | 169 |
| 83 | Multifunctional Aramid Nanofiber/Carbon Nanotube Hybrid Aerogel Films. <i>ACS Nano</i> , 2020 , 14, 688-697 | 16.7 | 142 |
| 82 | Inorganic/organic mesostructure directed synthesis of wire/ribbon-like polypyrrole nanostructures. <i>Chemical Communications</i> , 2004 , 1852-3 | 5.8 | 139 |
| 81 | From anisotropic graphene aerogels to electron- and photo-driven phase change composites. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17042-17049 | 13 | 129 |
| 80 | Nanofibrous Kevlar Aerogel Threads for Thermal Insulation in Harsh Environments. <i>ACS Nano</i> , 2019 , 13, 5703-5711 | 16.7 | 128 |
| 79 | 3D porous and redox-active prussian blue-in-graphene aerogels for highly efficient electrochemical detection of H ₂ O ₂ . <i>Journal of Materials Chemistry</i> , 2012 , 22, 22090 | | 128 |
| 78 | Polypyrrole/silver coaxial nanowire aero-sponges for temperature-independent stress sensing and stress-triggered Joule heating. <i>ACS Nano</i> , 2015 , 9, 4244-51 | 16.7 | 127 |
| 77 | Surfactant-directed polypyrrole/CNT nanocables: synthesis, characterization, and enhanced electrical properties. <i>ChemPhysChem</i> , 2004 , 5, 998-1002 | 3.2 | 127 |
| 76 | Synthesis and electrical properties of carbon nanotube polyaniline composites. <i>Applied Physics Letters</i> , 2004 , 85, 1796-1798 | 3.4 | 125 |
| 75 | Elastic, conductive, polymeric hydrogels and sponges. <i>Scientific Reports</i> , 2014 , 4, 5792 | 4.9 | 120 |
| 74 | Self-crosslinked polyaniline hydrogel electrodes for electrochemical energy storage. <i>Carbon</i> , 2015 , 92, 133-141 | 10.4 | 112 |

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| 73 | Bifunctional graphene/Fe ₃ O ₄ hybrid aerogels with double nanocrystalline networks for enzyme immobilization. <i>Small</i> , 2013 , 9, 2331-40 | 11 | 111 |
| 72 | Alkali-treated graphene oxide as a solid base catalyst: synthesis and electrochemical capacitance of graphene/carbon composite aerogels. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18537 | | 102 |
| 71 | Conducting polymer aerogels from supercritical CO ₂ drying PEDOT-PSS hydrogels. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5080 | | 92 |
| 70 | Self-floating hybrid hydrogels assembled with conducting polymer hollow spheres and silica aerogel microparticles for solar steam generation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1244-1251 | 13 | 89 |
| 69 | Nanofibrous Kevlar Aerogel Films and Their Phase-Change Composites for Highly Efficient Infrared Stealth. <i>ACS Nano</i> , 2019 , 13, 2236-2245 | 16.7 | 84 |
| 68 | Reduced-graphene-oxide/metal-oxide p-n heterojunction aerogels as efficient 3D sensing frameworks for phenol detection. <i>Carbon</i> , 2016 , 99, 571-578 | 10.4 | 83 |
| 67 | Spontaneous assembly of strong and conductive graphene/polypyrrole hybrid aerogels for energy storage. <i>Nanoscale</i> , 2014 , 6, 12912-20 | 7.7 | 81 |
| 66 | Hierarchical hydrogen bonds directed multi-functional carbon nanotube-based supramolecular hydrogels. <i>Small</i> , 2014 , 10, 1387-93 | 11 | 74 |
| 65 | Glucono- δ -lactone controlled assembly of graphene oxide hydrogels with selectively reversible gel-sol transition. <i>Soft Matter</i> , 2012 , 8, 4609 | 3.6 | 73 |
| 64 | Conducting polymer/carbon nanotube composite films made by in situ electropolymerization using an ionic surfactant as the supporting electrolyte. <i>Carbon</i> , 2005 , 43, 2186-2191 | 10.4 | 70 |
| 63 | Ultralight conducting polymer/carbon nanotube composite aerogels. <i>Carbon</i> , 2011 , 49, 1884-1893 | 10.4 | 69 |
| 62 | Single-walled carbon nanotube-based coaxial nanowires: synthesis, characterization, and electrical properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1101-7 | 3.4 | 68 |
| 61 | Aligned/unaligned conducting polymer cryogels with three-dimensional macroporous architectures from ice-segregation-induced self-assembly of PEDOT-PSS. <i>Langmuir</i> , 2011 , 27, 1915-23 | 4 | 67 |
| 60 | Nanoporous Boron Nitride Aerogel Film and Its Smart Composite with Phase Change Materials. <i>ACS Nano</i> , 2020 , | 16.7 | 65 |
| 59 | Fast and one-pot synthesis of silica aerogels via a quasi-solvent-exchange-free ambient pressure drying process. <i>Microporous and Mesoporous Materials</i> , 2015 , 218, 192-198 | 5.3 | 56 |
| 58 | Boron Nitride Aerogels with Super-Flexibility Ranging from Liquid Nitrogen Temperature to 1000 °C. <i>Advanced Functional Materials</i> , 2019 , 29, 1900188 | 15.6 | 55 |
| 57 | Assembling hollow carbon sphere-graphene polyolithic aerogels for thermoelectric cells. <i>Nano Energy</i> , 2017 , 39, 470-477 | 17.1 | 54 |
| 56 | Binary Crystallized Supramolecular Aerogels Derived from Host-Guest Inclusion Complexes. <i>ACS Nano</i> , 2015 , 9, 11389-97 | 16.7 | 53 |

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| 55 | Synthesis of conducting polymer hydrogels with 2D building blocks and their potential-dependent gel-sol transitions. <i>Chemical Communications</i> , 2011 , 47, 6287-9 | 5.8 | 53 |
| 54 | Graphene Aerogel Templated Fabrication of Phase Change Microspheres as Thermal Buffers in Microelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41323-41331 | 9.5 | 51 |
| 53 | Cyclic molecule aerogels: a robust cyclodextrin monolith with hierarchically porous structures for removal of micropollutants from water. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4308-4313 | 13 | 48 |
| 52 | Smart and flexible supercapacitor based on a porous carbon nanotube film and polyaniline hydrogel. <i>RSC Advances</i> , 2016 , 6, 24946-24951 | 3.7 | 48 |
| 51 | Template-Free Self-Assembly of Fluorine-Free Hydrophobic Polyimide Aerogels with Lotus or Petal Effect. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16901-16910 | 9.5 | 47 |
| 50 | Programmable writing of graphene oxide/reduced graphene oxide fibers for sensible networks with in situ welded junctions. <i>ACS Nano</i> , 2014 , 8, 4325-33 | 16.7 | 45 |
| 49 | Emulsion template synthesis of all conducting polymer aerogels with superb adsorption capacity and enhanced electrochemical capacitance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8579 | | 41 |
| 48 | Highly Active Carbon Supported Pd-Ag Nanofacets Catalysts for Hydrogen Production from HCOOH. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20839-48 | 9.5 | 41 |
| 47 | A versatile ambient pressure drying approach to synthesize silica-based composite aerogels. <i>RSC Advances</i> , 2014 , 4, 51146-51155 | 3.7 | 38 |
| 46 | High-Efficiency Cryo-Thermocells Assembled with Anisotropic Holey Graphene Aerogel Electrodes and a Eutectic Redox Electrolyte. <i>Advanced Materials</i> , 2019 , 31, e1901403 | 24 | 33 |
| 45 | Dendrimer-linked, renewable and magnetic carbon nanotube aerogels. <i>Materials Horizons</i> , 2014 , 1, 232-236 | 16.4 | 31 |
| 44 | Reaction-Spun Transparent Silica Aerogel Fibers. <i>ACS Nano</i> , 2020 , 14, 11919-11928 | 16.7 | 31 |
| 43 | 3D printing-directed auxetic Kevlar aerogel architectures with multiple functionalization options. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14243-14253 | 13 | 29 |
| 42 | Symbiotic Aerogel Fibers Made via In-Situ Gelation of Aramid Nanofibers with Polyamidoxime for Uranium Extraction. <i>Molecules</i> , 2019 , 24, | 4.8 | 28 |
| 41 | Thermoresponsive Polyrotaxane Aerogels: Converting Molecular Necklaces into Tough Porous Monoliths. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1468-1473 | 9.5 | 27 |
| 40 | Reversible superhydrophobic coatings on lifeless and biotic surfaces via dry-painting of aerogel microparticles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11408-11415 | 13 | 27 |
| 39 | Hygroscopic holey graphene aerogel fibers enable highly efficient moisture capture, heat allocation and microwave absorption.. <i>Nature Communications</i> , 2022 , 13, 1227 | 17.4 | 23 |
| 38 | Polyimide Aerogel Fibers with Superior Flame Resistance, Strength, Hydrophobicity, and Flexibility Made via a Universal Sol-Gel Confined Transition Strategy. <i>ACS Nano</i> , 2021 , 15, 4759-4768 | 16.7 | 21 |

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| 37 | Surfactant-free synthesis of silica aerogel microspheres with hierarchically porous structure. <i>Journal of Colloid and Interface Science</i> , 2018 , 515, 1-9 | 9.3 | 20 |
| 36 | Aerogel-Directed Energy-Storage Films with Thermally Stimulant Multiresponsiveness. <i>Langmuir</i> , 2019 , 35, 943-949 | 4 | 20 |
| 35 | Nanocomposite hydrogels Controlled synthesis of chiral polyaniline nanofibers and their inclusion in agarose. <i>Synthetic Metals</i> , 2009 , 159, 2135-2140 | 3.6 | 19 |
| 34 | Potential controlled electrochemical assembly of chiral polyaniline with Enhanced stereochemical selectivity. <i>Polymer</i> , 2007 , 48, 5473-5479 | 3.9 | 19 |
| 33 | Preparation and characterization of a composite hydrogel with graphene oxide as an acid catalyst. <i>Soft Matter</i> , 2015 , 11, 3215-21 | 3.6 | 16 |
| 32 | Bayberry tannin directed assembly of a bifunctional graphene aerogel for simultaneous solar steam generation and marine uranium extraction. <i>Nanoscale</i> , 2021 , 13, 5419-5428 | 7.7 | 16 |
| 31 | Autocatalytic synthesis of molecular-bridged silica aerogels with excellent absorption and super elasticity. <i>RSC Advances</i> , 2015 , 5, 91407-91413 | 3.7 | 15 |
| 30 | Electroless Plating of Graphene Aerogel Fibers for Electrothermal and Electromagnetic Applications. <i>Langmuir</i> , 2019 , 35, 3814-3821 | 4 | 15 |
| 29 | Robust urethane-bridged silica aerogels available for water-carved aerosculptures. <i>New Journal of Chemistry</i> , 2017 , 41, 1953-1958 | 3.6 | 14 |
| 28 | Defect-Controlled Preparation of UiO-66 Metal-Organic Framework Thin Films with Molecular Sieving Capability. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 207-10 | 4.5 | 14 |
| 27 | Synthesis and physicochemical properties of graphene/ZrO ₂ composite aerogels. <i>RSC Advances</i> , 2015 , 5, 11738-11744 | 3.7 | 13 |
| 26 | Phase-separation induced synthesis of superhydrophobic silica aerogel powders and granules. <i>Journal of Solid State Chemistry</i> , 2019 , 279, 120971 | 3.3 | 12 |
| 25 | Comparison of chiral polyaniline carbon nanotube nanocomposites synthesized by aniline dimer-assisted chemistry and electrochemistry methods. <i>Synthetic Metals</i> , 2008 , 158, 336-344 | 3.6 | 12 |
| 24 | Electrically Conductive, Optically Responsive, and Highly Orientated Ti ₃ C ₂ T _x MXene Aerogel Fibers. <i>Advanced Functional Materials</i> , 2107767 | 15.6 | 12 |
| 23 | Electrodeposition of chiral polymer-carbon nanotube composite films. <i>ChemPhysChem</i> , 2007 , 8, 1766-9 | 3.2 | 11 |
| 22 | Inner Surface-Functionalized Graphene Aerogel Microgranules with Static Microwave Attenuation and Dynamic Infrared Shielding. <i>Langmuir</i> , 2018 , 34, 9004-9014 | 4 | 10 |
| 21 | Recyclable Nanoporous Materials with Ordered Tunnels Self-Assembled from β - and γ -Cyclodextrins. <i>ChemNanoMat</i> , 2019 , 5, 838-846 | 3.5 | 9 |
| 20 | Solid-Liquid Host-Guest Composites: The Marriage of Porous Solids and Functional Liquids. <i>Advanced Materials</i> , 2021 , 33, e2104851 | 24 | 9 |

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| 19 | Bending Stiffness-Directed Fabricating of Kevlar Aerogel-Confined Organic Phase-Change Fibers. <i>ACS Nano</i> , 2021 , 15, 15180-15190 | 16.7 | 9 |
| 18 | Controllable Synthesis of Co ³⁺ -Enriched Anisotropy Co ₃ O ₄ Hexagonal Prisms toward Enhanced Lithium Storage. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5856-5866 | 6.1 | 8 |
| 17 | Hydrogen bonding directed assembly of simonkolleite aerogel by a sol-gel approach. <i>Materials and Design</i> , 2016 , 93, 503-508 | 8.1 | 7 |
| 16 | Superhydrophobic polyimide aerogels via conformal coating strategy with excellent underwater performances. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48849 | 2.9 | 7 |
| 15 | "Hot spots" growth on single nanowire controlled by electric charge. <i>Nanoscale</i> , 2016 , 8, 12029-34 | 7.7 | 6 |
| 14 | Bio-inspired design and fabrication of an ultralight and strong nano-carbon gradient composite. <i>Materials and Design</i> , 2016 , 107, 198-204 | 8.1 | 6 |
| 13 | Flame-Retardant Host-Guest Films for Efficient Thermal Management of Cryogenic Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2102232 | 15.6 | 6 |
| 12 | Graphene Hybrid Aerogels Made via Phase Transfer Strategy. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600541 | 4.6 | 5 |
| 11 | Elaborate Size-tuning of Silica Aerogel Building Blocks Enables Laser-driven Lighting. <i>Advanced Materials</i> , 2021 , e2107168 | 24 | 4 |
| 10 | Graphene aerogel-phase change material host-guest smart films. <i>FlatChem</i> , 2021 , 27, 100249 | 5.1 | 4 |
| 9 | Silica Aerogels with Self-Reinforced Microstructure for Bioinspired Hydrogels. <i>Langmuir</i> , 2021 , 37, 5923-5931 | 4.9 | 3 |
| 8 | Quasi-static compression properties of graphene aerogel. <i>Diamond and Related Materials</i> , 2021 , 111, 108225 | 3.5 | 3 |
| 7 | The influence of the drying method on the microstructure and the compression behavior of graphene aerogel. <i>Diamond and Related Materials</i> , 2022 , 121, 108772 | 3.5 | 2 |
| 6 | Solid-Liquid-Vapor Triphase Gel. <i>Langmuir</i> , 2021 , 37, 13501-13511 | 4 | 2 |
| 5 | Nanoporous Kevlar Aerogel Confined Phase Change Fluids Enable Super-Flexible Thermal Diodes. <i>Advanced Functional Materials</i> , 2020 , 10, 2200137 | 15.6 | 1 |
| 4 | Graphene Aerogel-Directed Fabrication of Phase Change Composites 2018 , | | 1 |
| 3 | Electrokinetic effect and H ₂ O ₂ boosting in synthetic graphene/FeOOH aerogel films for the generation of electricity. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5588-5596 | 13 | 0 |
| 2 | Calcium-Doped Boron Nitride Aerogel Enables Infrared Stealth at High Temperature Up to 1300°C. <i>Nano-Micro Letters</i> , 2021 , 14, 18 | 19.5 | 0 |

- 1 Recyclable thermo-insulating panels made by reversible gelling of dispersed silica aerogel microparticles. *Journal of Sol-Gel Science and Technology*,1 2.3