# Yiyu Feng

## List of Publications by Citations



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|---|---|---|---|
| 106 papers | 4,925 citations | 41 h-index | 67 g-index |
| 112 ext. papers | 6,375 ext. citations | 10.1 avg, IF | 6.34 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 106 | Two-Dimensional Fluorinated Graphene: Synthesis, Structures, Properties and Applications. *Advanced Science*, **2016**, 3, 1500413 | 13.6 | 323 |
| 105 | A mechanically strong, flexible and conductive film based on bacterial cellulose/graphene nanocomposite. *Carbohydrate Polymers*, **2012**, 87, 644-649 | 10.3 | 244 |
| 104 | Self-Protective Room-Temperature Phosphorescence of Fluorine and Nitrogen Codoped Carbon Dots. *Advanced Functional Materials*, **2018**, 28, 1800791 | 15.6 | 206 |
| 103 | Azobenzene-based solar thermal fuels: design, properties, and applications. *Chemical Society Reviews*, **2018**, 47, 7339-7368 | 58.5 | 188 |
| 102 | Electropolymerization of graphene oxide/polyaniline composite for high-performance supercapacitor. *Electrochimica Acta*, **2013**, 90, 95-100 | 6.7 | 173 |
| 101 | Poly(N-isopropylacrylamide)-based smart hydrogels: Design, properties and applications. *Progress in Materials Science*, **2021**, 115, 100702 | 42.2 | 144 |
| 100 | Carbon-based functional nanomaterials: Preparation, properties and applications. *Composites Science and Technology*, **2019**, 179, 10-40 | 8.6 | 130 |
| 99 | Nitrogen and fluorine co-doped graphene as a high-performance anode material for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 23095-23105 | 13 | 128 |
| 98 | Solvothermally exfoliated fluorographene for high-performance lithium primary batteries. *Nanoscale*, **2014**, 6, 2634-41 | 7.7 | 127 |
| 97 | Hydrothermal preparation of fluorinated graphene hydrogel for high-performance supercapacitors. *Journal of Power Sources*, **2016**, 312, 146-155 | 8.9 | 111 |
| 96 | Stress Controllability in Thermal and Electrical Conductivity of 3D Elastic Graphene-Crosslinked Carbon Nanotube Sponge/Polyimide Nanocomposite. *Advanced Functional Materials*, **2019**, 29, 1901383 | 15.6 | 107 |
| 95 | Covalent functionalization of graphene by azobenzene with molecular hydrogen bonds for long-term solar thermal storage. *Scientific Reports*, **2013**, 3, 3260 | 4.9 | 107 |
| 94 | Hierarchical graphene oxide/polyaniline nanocomposites prepared by interfacial electrochemical polymerization for flexible solid-state supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 2135-2143 | 13 | 101 |
| 93 | Free-standing fluorine and nitrogen co-doped graphene paper as a high-performance electrode for flexible sodium-ion batteries. *Carbon*, **2017**, 116, 338-346 | 10.4 | 100 |
| 92 | Toward highly thermally conductive all-carbon composites: Structure control. *Carbon*, **2016**, 109, 575-597 | 10.4 | 99 |
| 91 | Three-dimensional interconnected networks for thermally conductive polymer composites: Design, preparation, properties, and mechanisms. *Materials Science and Engineering Reports*, **2020**, 142, 100580 | 30.9 | 90 |
| 90 | Thermal conducting properties of aligned carbon nanotubes and their polymer composites. *Composites Part A: Applied Science and Manufacturing*, **2016**, 91, 351-369 | 8.4 | 84 |

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| 89 | Photo-responsive carbon nanomaterials functionalized by azobenzene moieties: structures, properties and application. *Nanoscale*, **2012**, 4, 6118-34 | 7.7 | 80 |
| 88 | Improving thermal conductivity in the through-thickness direction of carbon fibre/SiC composites by growing vertically aligned carbon nanotubes. *Carbon*, **2017**, 116, 84-93 | 10.4 | 76 |
| 87 | Frontiers in carbon dots: design, properties and applications. *Materials Chemistry Frontiers*, **2019**, 3, 2571-2601 | 7.8 | 75 |
| 86 | A high energy density azobenzene/graphene hybrid: a nano-templated platform for solar thermal storage. *Journal of Materials Chemistry A*, **2015**, 3, 11787-11795 | 13 | 74 |
| 85 | A solid-state single-ion polymer electrolyte with ultrahigh ionic conductivity for dendrite-free lithium metal batteries. *Energy Storage Materials*, **2019**, 19, 401-407 | 19.4 | 71 |
| 84 | Infrared-actuated recovery of polyurethane filled by reduced graphene oxide/carbon nanotube hybrids with high energy density. *ACS Applied Materials & Interfaces*, **2013**, 5, 10882-8 | 9.5 | 63 |
| 83 | Highly transparent, strong, and flexible fluorographene/fluorinated polyimide nanocomposite films with low dielectric constant. *Journal of Materials Chemistry C*, **2018**, 6, 6378-6384 | 7.1 | 62 |
| 82 | A three-dimensional nanostructure of graphite intercalated by carbon nanotubes with high cross-plane thermal conductivity and bending strength. *Carbon*, **2014**, 77, 1054-1064 | 10.4 | 58 |
| 81 | Enhancement of cross-plane thermal conductivity and mechanical strength via vertical aligned carbon nanotube@graphite architecture. *Carbon*, **2016**, 104, 157-168 | 10.4 | 57 |
| 80 | Efficient cycling utilization of solar-thermal energy for thermochromic displays with controllable heat output. *Journal of Materials Chemistry A*, **2019**, 7, 97-106 | 13 | 56 |
| 79 | A supramolecular assembly of cross-linked azobenzene/polymers for a high-performance light-driven actuator. *Journal of Materials Chemistry A*, **2015**, 3, 16453-16460 | 13 | 55 |
| 78 | Solid-State Fluorescence of Fluorine-Modified Carbon Nanodots Aggregates Triggered by Poly(ethylene glycol). *ACS Applied Materials & Interfaces*, **2017**, 9, 37981-37990 | 9.5 | 53 |
| 77 | Highly Transparent, Self-Healable, and Adhesive Organogels for Bio-Inspired Intelligent Ionic Skins. *ACS Applied Materials & Interfaces*, **2020**, 12, 15657-15666 | 9.5 | 53 |
| 76 | A sulfonimide-based alternating copolymer as a single-ion polymer electrolyte for high-performance lithium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 22519-22526 | 13 | 53 |
| 75 | High cross-plane thermally conductive hierarchical composite using graphene-coated vertically aligned carbon nanotubes/graphite. *Carbon*, **2019**, 149, 281-289 | 10.4 | 52 |
| 74 | Surface passivation of carbon dots with ethylene glycol and their high-sensitivity to Fe3+. *RSC Advances*, **2017**, 7, 2810-2816 | 3.7 | 50 |
| 73 | Self-Healing High Strength and Thermal Conductivity of 3D Graphene/PDMS Composites by the Optimization of Multiple Molecular Interactions. *Macromolecules*, **2020**, 53, 7161-7170 | 5.5 | 49 |
| 72 | Large-Scale Synthesis of a Uniform Film of Bilayer MoS2 on Graphene for 2D Heterostructure Phototransistors. *ACS Applied Materials & Interfaces*, **2016**, 8, 19004-11 | 9.5 | 49 |

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| 71 | Transparent and flexible films of horizontally aligned carbon nanotube/polyimide composites with highly anisotropic mechanical, thermal, and electrical properties. *Carbon*, **2016**, 109, 131-140 | 10.4 | 48 |
| 70 | High-energy, stable and recycled molecular solar thermal storage materials using AZO/graphene hybrids by optimizing hydrogen bonds. *Nanoscale*, **2015**, 7, 16214-21 | 7.7 | 45 |
| 69 | Liquid metal-created macroporous composite hydrogels with self-healing ability and multiple sensations as artificial flexible sensors. *Journal of Materials Chemistry A*, **2021**, 9, 875-883 | 13 | 43 |
| 68 | Organic solar cells using few-walled carbon nanotubes electrode controlled by the balance between sheet resistance and the transparency. *Applied Physics Letters*, **2009**, 94, 123302 | 3.4 | 42 |
| 67 | Controlling Heat Release from a Close-Packed Bisazobenzene-Reduced-Graphene-Oxide Assembly Film for High-Energy Solid-State Photothermal Fuels. *ChemSusChem*, **2017**, 10, 1395-1404 | 8.3 | 41 |
| 66 | Graphene-based chiral liquid crystal materials for optical applications. *Journal of Materials Chemistry C*, **2019**, 7, 2146-2171 | 7.1 | 41 |
| 65 | Two-dimensional gersiloxenes with tunable bandgap for photocatalytic H evolution and CO photoreduction to CO. *Nature Communications*, **2020**, 11, 1443 | 17.4 | 41 |
| 64 | An energy-dense and thermal-stable bis-azobenzene/hybrid templated assembly for solar thermal fuel. *Journal of Materials Chemistry A*, **2016**, 4, 8020-8028 | 13 | 41 |
| 63 | Light-driven bimorph soft actuators: design, fabrication, and properties. *Materials Horizons*, **2021**, 8, 728-757 | 14.4 | 37 |
| 62 | A layer-nanostructured assembly of PbS quantum dot/multiwalled carbon nanotube for a high-performance photoswitch. *Scientific Reports*, **2014**, 4, 3777 | 4.9 | 36 |
| 61 | Cobalt, Nitrogen-Doped Porous Carbon Nanosheet-Assembled Flowers from Metal-Coordinated Covalent Organic Polymers for Efficient Oxygen Reduction. *ACS Applied Materials & Interfaces*, **2019**, 11, 1384-1393 | 9.5 | 36 |
| 60 | Structural and Dimensional Transformations between Covalent Organic Frameworks via Linker Exchange. *Macromolecules*, **2019**, 52, 1257-1265 | 5.5 | 35 |
| 59 | Synthesis of photoresponsive azobenzene chromophore-modified multi-walled carbon nanotubes. *Carbon*, **2007**, 45, 2445-2448 | 10.4 | 34 |
| 58 | Thermally conductive, self-healing, and elastic Polyimide@Vertically aligned carbon nanotubes composite as smart thermal interface material. *Carbon*, **2021**, 179, 348-357 | 10.4 | 34 |
| 57 | Stress-sensitive thermally conductive elastic nanocomposite based on interconnected graphite-welded carbon nanotube sponges. *Carbon*, **2019**, 145, 378-388 | 10.4 | 34 |
| 56 | Nitrogen and fluorine co-doped holey graphene hydrogel as a binder-free electrode material for flexible solid-state supercapacitors. *Sustainable Energy and Fuels*, **2019**, 3, 2237-2245 | 5.8 | 33 |
| 55 | Controllable and Stable Deformation of a Self-Healing Photo-Responsive Supramolecular Assembly for an Optically Actuated Manipulator Arm. *ACS Applied Materials & Interfaces*, **2018**, 10, 29909-29917 | 9.5 | 33 |
| 54 | Three-Dimensional Multilayer Assemblies of MoS2/Reduced Graphene Oxide for High-Performance Lithium Ion Batteries. *Particle and Particle Systems Characterization*, **2015**, 32, 489-497 | 3.1 | 32 |

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| 53 | Competitive adsorption and dynamics of guest molecules in 2D molecular sieves. *Journal of Materials Chemistry*, **2011**, 21, 8787 | | 32 |
| 52 | Tetracarboxylated Azobenzene/Polymer Supramolecular Assemblies as High-Performance Multiresponsive Actuators. *ACS Applied Materials & Interfaces*, **2017**, 9, 4066-4073 | 9.5 | 31 |
| 51 | Electrolyte-Solvent-Modified Alternating Copolymer as a Single-Ion Solid Polymer Electrolyte for High-Performance Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 35683-35692 | 9.5 | 31 |
| 50 | Sonication-assisted liquid-phase exfoliated □GeTe: a two-dimensional material with high Fe sensitivity. *Nanoscale*, **2018**, 10, 15989-15997 | 7.7 | 30 |
| 49 | Optically Triggered Synchronous Heat Release of Phase-Change Enthalpy and Photo-Thermal Energy in Phase-Change Materials at Low Temperatures. *Advanced Functional Materials*, **2021**, 31, 2008496 | 15.6 | 28 |
| 48 | Reduced graphene oxide doped predominantly with CF groups as a superior anode material for long-life lithium-ion batteries. *Chemical Communications*, **2018**, 54, 2727-2730 | 5.8 | 26 |
| 47 | The light-switching conductance of an anisotropic azobenzene-based polymer close-packed on horizontally aligned carbon nanotubes. *Journal of Materials Chemistry C*, **2017**, 5, 5068-5075 | 7.1 | 25 |
| 46 | Two-dimensional large-scale bandgap-tunable monolayer MoS2(1□)Se2x/graphene heterostructures for phototransistors. *Journal of Materials Chemistry C*, **2017**, 5, 5887-5896 | 7.1 | 24 |
| 45 | Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. *Nano Today*, **2021**, 37, 101059 | 17.9 | 24 |
| 44 | Single Li ion conducting solid-state polymer electrolytes based on carbon quantum dots for Li-metal batteries. *Nano Energy*, **2021**, 82, 105698 | 17.1 | 22 |
| 43 | Room temperature stable helical blue phase enabled by a photo-polymerizable bent-shaped material. *Journal of Materials Chemistry C*, **2017**, 5, 690-696 | 7.1 | 21 |
| 42 | Solar Thermal Storage and Room-Temperature Fast Release Using a Uniform Flexible Azobenzene-Grafted Polynorborene Film Enhanced by Stretching. *Macromolecules*, **2019**, 52, 4222-4231 | 5.5 | 20 |
| 41 | Recent progresses in application of functionalized graphene sheets. *Science China Technological Sciences*, **2010**, 53, 2311-2319 | 3.5 | 20 |
| 40 | Azobenzene/graphene hybrid for high-density solar thermal storage by optimizing molecular structure. *Science China Technological Sciences*, **2016**, 59, 1383-1390 | 3.5 | 20 |
| 39 | Room-temperature phosphorescent fluorine-nitrogen co-doped carbon dots: Information encryption and anti-counterfeiting. *Carbon*, **2021**, 181, 9-15 | 10.4 | 20 |
| 38 | Fluorine and Nitrogen Dual-Doped Porous Carbon Nanosheet-Enabled Compact Electrode Structure for High Volumetric Energy Storage. *ACS Applied Energy Materials*, **2020**, 3, 4949-4957 | 6.1 | 19 |
| 37 | Preparation of C/Ni□NiO composite nanofibers for anode materials in lithium-ion batteries. *Applied Physics A: Materials Science and Processing*, **2013**, 113, 683-692 | 2.6 | 19 |
| 36 | Preparation of sulfonated graphene/polyaniline composites in neutral solution for high-performance supercapacitors. *Journal of Solid State Electrochemistry*, **2014**, 18, 1127-1135 | 2.6 | 18 |

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| 35 | Solid-state high-power photo heat output of 4-((3,5-dimethoxyaniline)-diazenyl)-2-imidazole/graphene film for thermally controllable dual data encoding/reading. *Energy Storage Materials*, **2020**, 24, 662-669 | 19.4 | 18 |
| 34 | Alkyl-grafted azobenzene molecules for photo-induced heat storage and release via integration function of phase change and photoisomerization. *Composites Communications*, **2020**, 21, 100402 | 6.7 | 17 |
| 33 | Few-layer methyl-terminated germanene–graphene nanocomposite with high capacity for stable lithium storage. *Carbon*, **2020**, 161, 287-298 | 10.4 | 15 |
| 32 | Recent progress in the fields of tuning the band gap of quantum dots. *Science China Technological Sciences*, **2012**, 55, 903-912 | 3.5 | 14 |
| 31 | Photothermal storage and controllable release of a phase-change azobenzene/aluminum nitride aerogel composite. *Composites Communications*, **2021**, 23, 100575 | 6.7 | 14 |
| 30 | Azobenzene-based solar thermal energy storage enhanced by gold nanoparticles for rapid, optically-triggered heat release at room temperature. *Journal of Materials Chemistry A*, **2020**, 8, 18668-18676 | 13 | 13 |
| 29 | A low cost ultra-microporous carbon scaffold with confined chain-like sulfur molecules as a superior cathode for lithium–sulfur batteries. *Sustainable Energy and Fuels*, **2018**, 2, 2187-2196 | 5.8 | 12 |
| 28 | Enhanced cross-plane thermal conductivity and high resilience of three-dimensional hierarchical carbon nanocoil–graphite nanocomposites. *RSC Advances*, **2014**, 4, 10090 | 3.7 | 11 |
| 27 | Photoinduced anisotropic response of azobenzene chromophore functionalized multiwalled carbon nanotubes. *Journal of Applied Physics*, **2007**, 102, 053102 | 2.5 | 11 |
| 26 | Thermal-assisted self-assembly: a self-adaptive strategy towards large-area uniaxial organic single-crystalline microribbon arrays. *Nanoscale*, **2019**, 11, 12781-12787 | 7.7 | 10 |
| 25 | 4D-printed untethered self-propelling soft robot with tactile perception: Rolling, racing, and exploring. *Matter*, **2021**, 4, 3313-3326 | 12.7 | 10 |
| 24 | Unidirectional and crystalline organic semiconductor microwire arrays by solvent vapor annealing with PMMA as the assisting layer. *Journal of Materials Chemistry C*, **2018**, 6, 12479-12483 | 7.1 | 10 |
| 23 | CoSn/carbon composite nanofibers for applications as anode in lithium-ion batteries. *Journal of Nanoparticle Research*, **2013**, 15, 1 | 2.3 | 9 |
| 22 | Progress of synthesizing methods and properties of fluorinated carbon nanotubes. *Science China Technological Sciences*, **2010**, 53, 1225-1233 | 3.5 | 9 |
| 21 | Cross-linked Single-Ion Solid Polymer Electrolytes with Alternately Distributed Lithium Sources and Ion-Conducting Segments for Lithium Metal Batteries. *Macromolecules*, | 5.5 | 9 |
| 20 | Reversible Modification of Nitrogen-Doped Graphene Based on Se-N Dynamic Covalent Bonds for Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2019**, 11, 24360-24366 | 9.5 | 8 |
| 19 | Copolymers of aniline and 2-aminoterephthalic acid as a novel cathode material for hybrid supercapacitors. *RSC Advances*, **2017**, 7, 8762-8770 | 3.7 | 7 |
| 18 | Solution-processed bulk heterojunction photovoltaic devices based on poly(2-methoxy,5-octoxy)-1,4-phenylenevinylene-multiwalled carbon nanotubes/PbSe quantum dots bilayer. *Applied Physics Letters*, **2010**, 96, 093301 | 3.4 | 7 |

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| 17 | 2D molecular crystal templated organic p□ heterojunctions for high-performance ambipolar organic field-effect transistors. *Journal of Materials Chemistry C*, **2021**, 9, 5758-5764 | 7.1 | 6 |
| 16 | Utilisation of photo-thermal energy and bond enthalpy based on optically triggered formation and dissociation of coordination bonds. *Nano Energy*, **2021**, 89, 106401 | 17.1 | 6 |
| 15 | Selective electroless coating of palladium nanoparticles on metallic single-walled carbon nanotube. *Applied Physics Letters*, **2010**, 97, 083101 | 3.4 | 5 |
| 14 | Fluorinated graphene nanoribbons from unzipped single-walled carbon nanotubes for ultrahigh energy density lithium-fluorinated carbon batteries. *Science China Materials*, **2021**, 64, 1367-1377 | 7.1 | 5 |
| 13 | Composite Networks: Stress Controllability in Thermal and Electrical Conductivity of 3D Elastic Graphene-Crosslinked Carbon Nanotube Sponge/Polyimide Nanocomposite (Adv. Funct. Mater. 25/2019). *Advanced Functional Materials*, **2019**, 29, 1970173 | 15.6 | 4 |
| 12 | Carbon Dots: Self-Protective Room-Temperature Phosphorescence of Fluorine and Nitrogen Codoped Carbon Dots (Adv. Funct. Mater. 37/2018). *Advanced Functional Materials*, **2018**, 28, 1870263 | 15.6 | 4 |
| 11 | Highly thermally conductive polymer composite enhanced by two-level adjustable boron nitride network with leaf venation structure. *Composites Science and Technology*, **2022**, 222, 109406 | 8.6 | 4 |
| 10 | Highly efficient modulation of the electronic properties of organic semiconductors by surface doping with 2D molecular crystals. *Science China Chemistry*, **2020**, 63, 973-979 | 7.9 | 3 |
| 9 | Two-Dimensional GeTe: Air Stability and Photocatalytic Performance for Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2020**, 12, 37108-37115 | 9.5 | 3 |
| 8 | Carbon nanotubes grown on electrospun polyacrylonitrile-based carbon nanofibers via chemical vapor deposition. *Applied Physics A: Materials Science and Processing*, **2012**, 106, 863-869 | 2.6 | 3 |
| 7 | Improved thermal conductivities of vertically aligned carbon nanotube arrays using three-dimensional carbon nanotube networks. *Carbon*, **2022**, 196, 902-912 | 10.4 | 2 |
| 6 | Soft template-assisted self-assembly: a general strategy toward two-dimensional molecular crystals for high-performance organic field-effect transistors. *Journal of Materials Chemistry C*, | 7.1 | 1 |
| 5 | Broadband self-powered photoelectrochemical photodetector based on Te/Se heterostructure nanocomposites. *Composites Communications*, **2022**, 32, 101175 | 6.7 | 1 |
| 4 | Controlling Heat Release from a Close-Packed Bisazobenzene□Reduced-Graphene-Oxide Assembly Film for High-Energy Solid-State Photothermal Fuels. *ChemSusChem*, **2017**, 10, 1302-1302 | 8.3 | 0 |
| 3 | Metallic-Ion Controlled Dynamic Bonds to Co-Harvest Isomerization Energy and Bond Enthalpy for High-Energy Output of Flexible Self-Heated Textile.. *Advanced Science*, **2022**, e2201657 | 13.6 | 0 |
| 2 | Three-dimensional boron nitride network/polyvinyl alcohol composite hydrogel with solid-liquid interpenetrating heat conduction network for thermal management. *Journal of Materials Science and Technology*, **2022**, 127, 183-191 | 9.1 | 0 |
| 1 | Visible Light-Driven Alkyne-Grafted Ethylene-Bridged Azobenzene Chromophores for Photothermal Utilization. *Molecules*, **2022**, 27, 3296 | 4.8 | 0 |