

Jianying Wang

List of Publications by Year in descending order

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85
papers

3,340
citations

126907

33
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155660

55
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86
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86
docs citations

86
times ranked

4611
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Achieving steam and electrical power from solar energy by MoS ₂ -based composites. <i>Chemical Engineering Journal</i> , 2022, 427, 131008. | 12.7 | 55 |
| 2 | Highly Emissive Carbon Dots/Organosilicon Composites for Efficient and Stable Luminescent Solar Concentrators. <i>ACS Applied Energy Materials</i> , 2022, 5, 1781-1792. | 5.1 | 18 |
| 3 | Ultrasensitive Label-Free DNA Detection Based on Solution-Gated Graphene Transistors Functionalized with Carbon Quantum Dots. <i>Analytical Chemistry</i> , 2022, 94, 3320-3327. | 6.5 | 23 |
| 4 | Bifunctional <i>in situ</i> polymerized nanocomposites for convective solar desalination and enhanced photo-thermoelectric power generation. <i>Environmental Science: Nano</i> , 2022, 9, 1685-1698. | 4.3 | 22 |
| 5 | Construction of highly efficient carbon dots-based polymer photonic luminescent solar concentrators with sandwich structure. <i>Nanotechnology</i> , 2022, 33, 305601. | 2.6 | 4 |
| 6 | The Gate-Modified Solution-Gated Graphene Transistors for the Highly Sensitive Detection of Lead Ions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1626-1633. | 8.0 | 9 |
| 7 | Cellulosic CuI Nanoparticles as a Heterogeneous, Recyclable Catalyst for the Borylation of $\hat{I}\pm, \hat{I}^2$ -Unsaturated Acceptors in Aqueous Media. <i>Catalysis Letters</i> , 2021, 151, 3220-3229. | 2.6 | 7 |
| 8 | Salt-resistant carbon dots modified solar steam system enhanced by chemical advection. <i>Carbon</i> , 2021, 176, 313-326. | 10.3 | 68 |
| 9 | Highly efficient and stable carbon-based perovskite solar cells with the polymer hole transport layer. <i>Solar Energy</i> , 2021, 220, 491-497. | 6.1 | 15 |
| 10 | Photoresponsive Biomimetic Soft Robots Enabled by Near-Infrared-Driven and Ultrarobust Sandwich-Structured Nanocomposite Films. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100012. | 6.1 | 5 |
| 11 | Photoresponsive Biomimetic Soft Robots Enabled by Near-Infrared-Driven and Ultrarobust Sandwich-Structured Nanocomposite Films. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170067. | 6.1 | 1 |
| 12 | Solid-state photoluminescent silicone-carbon dots/dendrimer composites for highly efficient luminescent solar concentrators. <i>Chemical Engineering Journal</i> , 2021, 422, 130158. | 12.7 | 39 |
| 13 | Stable metallic 1T phase engineering of molybdenum disulfide for enhanced solar vapor generation. <i>Solar Energy Materials and Solar Cells</i> , 2020, 204, 110227. | 6.2 | 37 |
| 14 | Chinese hydrangea lantern-like Co ₉ S ₈ @MoS ₂ composites with enhanced lithium-ion battery properties. <i>Nanoscale</i> , 2020, 12, 3435-3442. | 5.6 | 20 |
| 15 | Yolk-double shell Fe ₃ O ₄ @C@C composite as high-performance anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153656. | 5.5 | 26 |
| 16 | Functional Carbon Quantum Dots for Highly Sensitive Graphene Transistors for Cu ²⁺ Ion Detection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4797-4803. | 8.0 | 64 |
| 17 | Controlled Synthesis of Long-Wavelength Multicolor-Emitting Carbon Dots for Highly Efficient Tandem Luminescent Solar Concentrators. <i>ACS Applied Energy Materials</i> , 2020, 3, 12230-12237. | 5.1 | 34 |
| 18 | Efficient polysulfide anchor: brain coral-like WS ₂ nanosheets. <i>Journal of Materials Science</i> , 2020, 55, 12031-12040. | 3.7 | 14 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Lignin-derived red-emitting carbon dots for colorimetric and sensitive fluorometric detection of water in organic solvents. <i>Analytical Methods</i> , 2020, 12, 3218-3224. | 2.7 | 41 |
| 20 | Ultrasensitive Fe ³⁺ ion detection based on carbon quantum dot-functionalized solution-gated graphene transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4685-4689. | 5.5 | 20 |
| 21 | Osmosis manipulable morphology and photonic property of microcapsules with colloidal nano-in-micro structure. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 337-346. | 9.4 | 9 |
| 22 | Carbon dot-based inverse opal hydrogels with photoluminescence: dual-mode sensing of solvents and metal ions. <i>Analyst</i> , 2019, 144, 5802-5809. | 3.5 | 14 |
| 23 | Self-assembly of colloids based on microfluidics. <i>Nanoscale</i> , 2019, 11, 16708-16722. | 5.6 | 30 |
| 24 | Controllable microstructure of polymer-small molecule blend thin films for high-performance organic field-effect transistors. <i>Applied Surface Science</i> , 2019, 498, 143822. | 6.1 | 28 |
| 25 | Highly sensitive solution-gated graphene transistors for label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2019, 136, 91-96. | 10.1 | 45 |
| 26 | Synthesis and Applications of Red-Emissive Carbon Dots. <i>Chemical Record</i> , 2019, 19, 2083-2094. | 5.8 | 56 |
| 27 | Strong lithium polysulfides chemical trapping of TiC-TiO ₂ /S composite for long-cycle lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2019, 298, 43-51. | 5.2 | 46 |
| 28 | Hierarchical LiNi _{0.5} Mn _{1.5} O ₄ microspheres assembled with nanorice and their enhanced rates performance. <i>Materials Letters</i> , 2019, 236, 653-656. | 2.6 | 3 |
| 29 | Functionalized carbon materials for efficient solar steam and electricity generation. <i>Materials Chemistry and Physics</i> , 2019, 222, 159-164. | 4.0 | 40 |
| 30 | Construction of high-strength p(HEMA-co-AA) fluorescent hydrogels based on modified carbon dots as chemically crosslinkers. <i>Colloid and Polymer Science</i> , 2018, 296, 745-752. | 2.1 | 15 |
| 31 | Controlled Shape Transformation and Loading Release of Smart Hemispherical Hybrid Microgels Triggered by "Inner Engines" TM . <i>ChemistrySelect</i> , 2018, 3, 4067-4074. | 1.5 | 1 |
| 32 | Single-Step Hydrothermal Synthesis of N, S-Dual-Doped Graphene Networks as Metal-Free Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2018, 3, 3241-3250. | 1.5 | 16 |
| 33 | Super-hydrophilic copper sulfide films as light absorbers for efficient solar steam generation under one sun illumination. <i>Semiconductor Science and Technology</i> , 2018, 33, 025008. | 2.0 | 53 |
| 34 | Oxygen plasma treated graphene aerogel as a solar absorber for rapid and efficient solar steam generation. <i>Carbon</i> , 2018, 130, 250-256. | 10.3 | 155 |
| 35 | Hierarchical LiNi _{0.5} Mn _{1.5} O ₄ micro-rods with enhanced rate performance for lithium-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 9710-9720. | 3.7 | 10 |
| 36 | Responsive Photonic Hydrogel-Based Colorimetric Sensors for Detection of Aldehydes in Aqueous Solution. <i>Langmuir</i> , 2018, 34, 3987-3992. | 3.5 | 55 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Durian-like NiS ₂ @rGO nanocomposites and their enhanced rate performance. <i>Chemical Engineering Journal</i> , 2018, 335, 275-281. | 12.7 | 43 |
| 38 | Green emitting N,S-co-doped carbon dots for sensitive fluorometric determination of Fe(III) and Ag(I) ions, and as a solvatochromic probe. <i>Mikrochimica Acta</i> , 2018, 185, 510. | 5.0 | 49 |
| 39 | PEGylated Self-Growth MoS ₂ on a Cotton Cloth Substrate for High-Efficiency Solar Energy Utilization. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24583-24589. | 8.0 | 133 |
| 40 | Reduced Graphene Oxide-Supported Cobalt Phosphide Nanoflowers via <i>in situ</i> Hydrothermal Synthesis as Pt-Free Effective Electrocatalysts for Oxygen Reduction Reaction. <i>Nano</i> , 2018, 13, 1850047. | 1.0 | 6 |
| 41 | Polyethylene Glycol Based Graphene Aerogel Confined Phase Change Materials with High Thermal Stability. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3341-3347. | 0.9 | 22 |
| 42 | 8-aminoquinoline functionalized graphene oxide for simultaneous determination of guanine and adenine. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1357-1364. | 2.5 | 9 |
| 43 | Accessible Graphene Aerogel for Efficiently Harvesting Solar Energy. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4665-4671. | 6.7 | 208 |
| 44 | Reduced Graphene Oxide-Polyurethane Nanocomposite Foam as a Reusable Photoreceiver for Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , 2017, 29, 5629-5635. | 6.7 | 257 |
| 45 | Porous SnO ₂ hexagonal prism-attached Pd/rGO with enhanced electrocatalytic activity for methanol oxidation. <i>RSC Advances</i> , 2017, 7, 29909-29915. | 3.6 | 12 |
| 46 | Reprogrammable ultra-fast shape-transformation of macroporous composite hydrogel sheets. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2883-2887. | 5.8 | 23 |
| 47 | Synthesis of disk-like LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ nanoplates with exposed (001) planes and their enhanced rate performance in a lithium ion battery. <i>CrystEngComm</i> , 2017, 19, 442-446. | 2.6 | 19 |
| 48 | Investigation on enhancing effects of Au nanoparticles on solar steam generation in graphene oxide nanofluids. <i>Applied Thermal Engineering</i> , 2017, 114, 961-968. | 6.0 | 140 |
| 49 | Thermal Stability-Enhanced and High-Efficiency Planar Perovskite Solar Cells with Interface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38467-38476. | 8.0 | 76 |
| 50 | Low-Temperature and Solution-Processable Zinc Oxide Transistors for Transparent Electronics. <i>ACS Omega</i> , 2017, 2, 8990-8996. | 3.5 | 50 |
| 51 | Construction of upconversion photonic films with enhanced luminescence via self-assembly of monodispersed hexagonal-phase NaYF ₄ :Yb, Er nanoplates. <i>Materials Express</i> , 2017, 7, 324-328. | 0.5 | 0 |
| 52 | Synthesis of a novel kind of uniform fluorescent silica colloids and their assembled photonic film for sensitive detection of Cu ²⁺ ions. <i>Materials Express</i> , 2017, 7, 351-360. | 0.5 | 8 |
| 53 | Dual-Mode High-Sensitive Detection of Fe(III) Ions via Fluorescent Photonic Crystal Films Based on Co-Assembly of Silica Colloids and Carbon Dots. <i>Science of Advanced Materials</i> , 2017, 9, 873-880. | 0.7 | 7 |
| 54 | Full-color photonic hydrogels for pH and ionic strength sensing. <i>European Polymer Journal</i> , 2016, 83, 60-66. | 5.4 | 42 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | A sensitive porphyrin/reduced graphene oxide electrode for simultaneous detection of guanine and adenine. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2055-2062. | 2.5 | 15 |
| 56 | Coherent polyaniline/graphene oxides/multi-walled carbon nanotubes ternary composites for asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2016, 191, 165-172. | 5.2 | 31 |
| 57 | Light-triggered generation of multifunctional gas-filled capsules on-demand. <i>Journal of Materials Chemistry C</i> , 2016, 4, 652-658. | 5.5 | 5 |
| 58 | Synthesis of shell-in-shell LiNi _{0.5} Mn _{1.5} O ₄ hollow microspheres and their enhanced performance for lithium ion batteries. <i>Materials Letters</i> , 2016, 173, 141-144. | 2.6 | 4 |
| 59 | Formation of hybrid core-shell microgels induced by autonomous unidirectional migration of nanoparticles. <i>Materials Horizons</i> , 2016, 3, 78-82. | 12.2 | 14 |
| 60 | In situ synthesis of crosslinked-polyaniline nano-pillar arrays/reduced graphene oxide nanocomposites for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 665-671. | 2.5 | 5 |
| 61 | Er:YAG fractional laser as a percutaneous absorption promoter for controlled delivery of antibody in vitro. <i>Journal of Controlled Release</i> , 2015, 213, e56. | 9.9 | 1 |
| 62 | Hierarchical architected MnCO ₃ microdumbbells: facile synthesis and enhanced performance for lithium ion batteries. <i>CrystEngComm</i> , 2015, 17, 6450-6455. | 2.6 | 45 |
| 63 | A facile strategy to synthesize three-dimensional Pd@Pt core-shell nanoflowers supported on graphene nanosheets as enhanced nanoelectrocatalysts for methanol oxidation. <i>Chemical Communications</i> , 2015, 51, 10490-10493. | 4.1 | 55 |
| 64 | One-pot synthesis of lightweight nitrogen-doped graphene hydrogels with supercapacitive properties. <i>Materials Research Bulletin</i> , 2015, 68, 245-253. | 5.2 | 12 |
| 65 | Facile synthesis of PEG based shape-stabilized phase change materials and their photo-thermal energy conversion. <i>Applied Thermal Engineering</i> , 2015, 91, 630-637. | 6.0 | 103 |
| 66 | Highly Sensitive Mechanochromic Photonic Hydrogels with Fast Reversibility and Mechanical Stability. <i>Langmuir</i> , 2015, 31, 8732-8737. | 3.5 | 77 |
| 67 | Non-Spherical Hollow Microgels with Uniform Sizes and Tunable Shapes from Microfluidic-Assisted Approach. <i>Science of Advanced Materials</i> , 2015, 7, 902-909. | 0.7 | 4 |
| 68 | Self-assembly of poly(3-hexyl thiophene)-poly(ethylene oxide) into cylindrical micelles in binary solvent mixtures. <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 2.6 | 4 |
| 69 | Encapsulation of inorganic nanoparticles into block copolymer micellar aggregates: Strategies and precise localization of nanoparticles. <i>Polymer</i> , 2014, 55, 1079-1096. | 3.8 | 106 |
| 70 | Encapsulation of pristine fullerene C ₆₀ within block copolymer micelles through interfacial instabilities of emulsion droplets. <i>Journal of Colloid and Interface Science</i> , 2014, 418, 81-86. | 9.4 | 15 |
| 71 | Low-temperature and one-pot synthesis of sulfurized graphene nanosheets via in situ doping and their superior electrocatalytic activity for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20714-20722. | 10.3 | 54 |
| 72 | Uniform Core-Shell Photonic Crystal Microbeads as Microcarriers for Optical Encoding. <i>Langmuir</i> , 2014, 30, 11883-11889. | 3.5 | 14 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Fabrication of porous polymer microparticles with tunable pore size and density through the combination of phase separation and emulsion-solvent evaporation approach. Korea Australia Rheology Journal, 2014, 26, 63-71. | 1.7 | 23 |
| 74 | Recent advances in spherical photonic crystals: Generation and applications in optics. European Polymer Journal, 2013, 49, 3420-3433. | 5.4 | 24 |
| 75 | Synthesis of polymer-inorganic patchy microcapsules with tunable patches. European Polymer Journal, 2013, 49, 3691-3701. | 5.4 | 6 |
| 76 | Multiresponsive Hydrogel Photonic Crystal Microparticles with Inverse-Opal Structure. Langmuir, 2013, 29, 8825-8834. | 3.5 | 61 |
| 77 | A Simple Route To Improve Inorganic Nanoparticles Loading Efficiency in Block Copolymer Micelles. Macromolecules, 2013, 46, 2282-2291. | 4.8 | 61 |
| 78 | Janus Photonic Crystal Microspheres: Centrifugation-Assisted Generation and Reversible Optical Property. Langmuir, 2013, 29, 15529-15534. | 3.5 | 32 |
| 79 | Shape controllable microgel particles prepared by microfluidic combining external ionic crosslinking. Biomicrofluidics, 2012, 6, 26502-265029. | 2.4 | 102 |
| 80 | Microfluidic Fabrication and Thermoreversible Response of Core/Shell Photonic Crystalline Microspheres Based on Deformable Nanogels. Langmuir, 2012, 28, 17186-17192. | 3.5 | 61 |
| 81 | Construction of multifunctional photonic crystal microcapsules with tunable shell structures by combining microfluidic and controlled photopolymerization. Lab on A Chip, 2012, 12, 2795. | 6.0 | 40 |
| 82 | Tuning the stop bands of inverse opal hydrogels with double network structure by controlling the solvent and pH. Journal of Colloid and Interface Science, 2011, 353, 498-505. | 9.4 | 21 |
| 83 | Tunable multicolor pattern and stop-band shift based on inverse opal hydrogel heterostructure. Journal of Colloid and Interface Science, 2011, 357, 139-146. | 9.4 | 10 |
| 84 | Tunable Multiresponsive Methacrylic Acid Based Inverse Opal Hydrogels Prepared by Controlling the Synthesis Conditions. Langmuir, 2009, 25, 1855-1864. | 3.5 | 13 |
| 85 | Multiresponsive Inverse-Opal Hydrogels. Advanced Materials, 2007, 19, 3865-3871. | 21.0 | 120 |