

Jianying Wang

List of Publications by Year in descending order

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85
papers

3,340
citations

126907

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155660

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docs citations

86
times ranked

4611
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Accessible Graphene Aerogel for Efficiently Harvesting Solar Energy. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4665-4671.	6.7	208
3	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
4	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
5	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
6	Multiresponsive Inverse Opal Hydrogels. <i>Advanced Materials</i> , 2007, 19, 3865-3871.	21.0	120
7	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
8	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
9	Shape controllable microgel particles prepared by microfluidic combining external ionic crosslinking. <i>Biomicrofluidics</i> , 2012, 6, 26502-265029.	2.4	102
10	Highly Sensitive Mechanochromic Photonic Hydrogels with Fast Reversibility and Mechanical Stability. <i>Langmuir</i> , 2015, 31, 8732-8737.	3.5	77
11	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
12	Salt-resistant carbon dots modified solar steam system enhanced by chemical advection. <i>Carbon</i> , 2021, 176, 313-326.	10.3	68
13	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
14	Microfluidic Fabrication and Thermoreversible Response of Core/Shell Photonic Crystalline Microspheres Based on Deformable Nanogels. <i>Langmuir</i> , 2012, 28, 17186-17192.	3.5	61
15	Multiresponsive Hydrogel Photonic Crystal Microparticles with Inverse-Opal Structure. <i>Langmuir</i> , 2013, 29, 8825-8834.	3.5	61
16	A Simple Route To Improve Inorganic Nanoparticles Loading Efficiency in Block Copolymer Micelles. <i>Macromolecules</i> , 2013, 46, 2282-2291.	4.8	61
17	Synthesis and Applications of Red-Emissive Carbon Dots. <i>Chemical Record</i> , 2019, 19, 2083-2094.	5.8	56
18	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

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19	Responsive Photonic Hydrogel-Based Colorimetric Sensors for Detection of Aldehydes in Aqueous Solution. <i>Langmuir</i> , 2018, 34, 3987-3992.	3.5	55
20	Achieving steam and electrical power from solar energy by MoS ₂ -based composites. <i>Chemical Engineering Journal</i> , 2022, 427, 131008.	12.7	55
21	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
22	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
23	Low-Temperature and Solution-Processable Zinc Oxide Transistors for Transparent Electronics. <i>ACS Omega</i> , 2017, 2, 8990-8996.	3.5	50
24	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
25	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
26	Hierarchical architected MnCO ₃ microdumbbells: facile synthesis and enhanced performance for lithium ion batteries. <i>CrystEngComm</i> , 2015, 17, 6450-6455.	2.6	45
27	Highly sensitive solution-gated graphene transistors for label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2019, 136, 91-96.	10.1	45
28	Durian-like NiS ₂ @rGO nanocomposites and their enhanced rate performance. <i>Chemical Engineering Journal</i> , 2018, 335, 275-281.	12.7	43
29	Full-color photonic hydrogels for pH and ionic strength sensing. <i>European Polymer Journal</i> , 2016, 83, 60-66.	5.4	42
30	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
31	Construction of multifunctional photonic crystal microcapsules with tunable shell structures by combining microfluidic and controlled photopolymerization. <i>Lab on A Chip</i> , 2012, 12, 2795.	6.0	40
32	Functionalized carbon materials for efficient solar steam and electricity generation. <i>Materials Chemistry and Physics</i> , 2019, 222, 159-164.	4.0	40
33	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
34	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
35	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
36	Janus Photonic Crystal Microspheres: Centrifugation-Assisted Generation and Reversible Optical Property. <i>Langmuir</i> , 2013, 29, 15529-15534.	3.5	32

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37	Coherent polyaniline/graphene oxides/multi-walled carbon nanotubes ternary composites for asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2016, 191, 165-172.	5.2	31
38	Self-assembly of colloids based on microfluidics. <i>Nanoscale</i> , 2019, 11, 16708-16722.	5.6	30
39	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
40	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
41	Recent advances in spherical photonic crystals: Generation and applications in optics. <i>European Polymer Journal</i> , 2013, 49, 3420-3433.	5.4	24
42	Fabrication of porous polymer microparticles with tunable pore size and density through the combination of phase separation and emulsion-solvent evaporation approach. <i>Korea Australia Rheology Journal</i> , 2014, 26, 63-71.	1.7	23
43	Reprogrammable ultra-fast shape-transformation of macroporous composite hydrogel sheets. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2883-2887.	5.8	23
44	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
45	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
46	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
47	Tuning the stop bands of inverse opal hydrogels with double network structure by controlling the solvent and pH. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 498-505.	9.4	21
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	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
56	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
57	Uniform Core-Shell Photonic Crystal Microbeads as Microcarriers for Optical Encoding. <i>Langmuir</i> , 2014, 30, 11883-11889.	3.5	14
58	Formation of hybrid core-shell microgels induced by autonomous unidirectional migration of nanoparticles. <i>Materials Horizons</i> , 2016, 3, 78-82.	12.2	14
59	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
60	Efficient polysulfide anchor: brain coral-like WS ₂ nanosheets. <i>Journal of Materials Science</i> , 2020, 55, 12031-12040.	3.7	14
61	Tunable Multiresponsive Methacrylic Acid Based Inverse Opal Hydrogels Prepared by Controlling the Synthesis Conditions. <i>Langmuir</i> , 2009, 25, 1855-1864.	3.5	13
62	One-pot synthesis of lightweight nitrogen-doped graphene hydrogels with supercapacitive properties. <i>Materials Research Bulletin</i> , 2015, 68, 245-253.	5.2	12
63	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
64	Tunable multicolor pattern and stop-band shift based on inverse opal hydrogel heterostructure. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 139-146.	9.4	10
65	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
66	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
67	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
68	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
69	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
70	Cellulosic CuI Nanoparticles as a Heterogeneous, Recyclable Catalyst for the Borylation of β,γ -Unsaturated Acceptors in Aqueous Media. <i>Catalysis Letters</i> , 2021, 151, 3220-3229.	2.6	7
71	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
72	Synthesis of polymer-inorganic patchy microcapsules with tunable patches. <i>European Polymer Journal</i> , 2013, 49, 3691-3701.	5.4	6

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73	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
74	Light-triggered generation of multifunctional gas-filled capsules on-demand. <i>Journal of Materials Chemistry C</i> , 2016, 4, 652-658.	5.5	5
75	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
76	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
77	Self-Assembly of poly(3-hexyl thiophene)- <i>b</i> -poly(ethylene oxide) into cylindrical micelles in binary solvent mixtures. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	4
78	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
79	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
80	Construction of highly efficient carbon dots-based polymer photonic luminescent solar concentrators with sandwich structure. <i>Nanotechnology</i> , 2022, 33, 305601.	2.6	4
81	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
82	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
83	Controlled Shape Transformation and Loading Release of Smart Hemispherical Hybrid Microgels Triggered by "Inner Engines". <i>ChemistrySelect</i> , 2018, 3, 4067-4074.	1.5	1
84	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
85	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