Jin Wang

List of Publications by Year
in descending order

74	2,821	159585 30	182427 51
papers	citations	h-index	g-index

76	76	76	3302
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enabling Visibleâ€Lightâ€Driven Selective CO₂ Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H₂ Evolution. Angewandte Chemie - International Edition, 2018, 57, 16447-16451.	13.8	262
2	Turning Au Nanoclusters Catalytically Active for Visible-Light-Driven CO₂ Reduction through Bridging Ligands. Journal of the American Chemical Society, 2018, 140, 16514-16520.	13.7	208
3	From anisotropic graphene aerogels to electron- and photo-driven phase change composites. Journal of Materials Chemistry A, 2016, 4, 17042-17049.	10.3	179
4	Polypyrrole/Silver Coaxial Nanowire Aero-Sponges for Temperature-Independent Stress Sensing and Stress-Triggered Joule Heating. ACS Nano, 2015, 9, 4244-4251.	14.6	175
5	Self-floating hybrid hydrogels assembled with conducting polymer hollow spheres and silica aerogel microparticles for solar steam generation. Journal of Materials Chemistry A, 2019, 7, 1244-1251.	10.3	129
6	Cyclodextrin polymers: Structure, synthesis, and use as drug carriers. Progress in Polymer Science, 2021, 118, 101408.	24.7	103
7	Reaction-Spun Transparent Silica Aerogel Fibers. ACS Nano, 2020, 14, 11919-11928.	14.6	90
8	Biosynthesis of polyhydroxybutyrate (PHB) and extracellular polymeric substances (EPS) by Ralstonia eutropha ATCC 17699 in batch cultures. Applied Microbiology and Biotechnology, 2007, 75, 871-878.	3.6	78
9	Template-Free Self-Assembly of Fluorine-Free Hydrophobic Polyimide Aerogels with Lotus or Petal Effect. ACS Applied Materials & Interfaces, 2018, 10, 16901-16910.	8.0	74
10	Synthesis of all-conjugated donorâ€“acceptor block copolymers and their application in all-polymer solar cells. Polymer Chemistry, 2013, 4, 5518.	3.9	68
11	Fast and one-pot synthesis of silica aerogels via a quasi-solvent-exchange-free ambient pressure drying process. Microporous and Mesoporous Materials, 2015, 218, 192-198.	4.4	65
12	Binary Crystallized Supramolecular Aerogels Derived from Hostâ€“Guest Inclusion Complexes. ACS Nano, 2015, 9, 11389-11397.	14.6	64
13	Cyclic molecule aerogels: a robust cyclodextrin monolith with hierarchically porous structures for removal of micropollutants from water. Journal of Materials Chemistry A, 2017, 5, 4308-4313.	10.3	58
14	Superhydrophobic Silica Aerogels and Their Layer-by-Layer Structure for Thermal Management in Harsh Cold and Hot Environments. ACS Nano, 2021, 15, 19771-19782.	14.6	57
15	A high energy density Li₂S@C nanocomposite cathode with a nitrogen-doped carbon nanotube top current collector. Journal of Materials Chemistry A, 2015, 3, 18913-18919.	10.3	55
16	On-Chip Integration of GaN-Based Laser, Modulator, and Photodetector Grown on Si. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-5.	2.9	55
17	Aerogelâ€Functionalized Thermoplastic Polyurethane as Waterproof, Breathable Freestanding Films and Coatings for Passive Daytime Radiative Cooling. Advanced Science, 2022, 9, e2201190.	11.2	55
18	Polymeric hybrid aerogels and their biomedical applications. Soft Matter, 2020, 16, 9160-9175.	2.7	50

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19	Synthesis of All-Conjugated Donorâ€“Acceptorâ€“Donor ABA-Type Triblock Copolymers via Kumada Catalyst-Transfer Polycondensation. ACS Macro Letters, 2013, 2, 506-510.	4.8	49
20	Solvent- and Thermoresponsive Polyrotaxanes with Î²-Cyclodextrin Dispersed/Aggregated Structures on a Pluronic F127 Backbone. Journal of Physical Chemistry B, 2010, 114, 5342-5349.	2.6	44
21	Synthesis and Characterization of All-Conjugated Graft Copolymers Comprised of n-Type or p-Type Backbones and Poly(3-hexylthiophene) Side Chains. Macromolecules, 2013, 46, 1783-1793.	4.8	44
22	On-wafer fabrication of cavity mirrors for InGaN-based laser diode grown on Si. Scientific Reports, 2018, 8, 7922.	3.3	44
23	Dual thermo-responsive polyrotaxane-based triblock copolymers synthesized viaATRP of N-isopropylacrylamide initiated with self-assemblies of Br end-capped Pluronic F127 with Î²-cyclodextrins. Polymer Chemistry, 2011, 2, 931-940.	3.9	43
24	A versatile ambient pressure drying approach to synthesize silica-based composite aerogels. RSC Advances, 2014, 4, 51146-51155.	3.6	43
25	Symbiotic Aerogel Fibers Made via In-Situ Gelation of Aramid Nanofibers with Polyamidoxime for Uranium Extraction. Molecules, 2019, 24, 1821.	3.8	43
26	Room-Temperature Electrically Injected AlGaN-Based near-Ultraviolet Laser Grown on Si. ACS Photonics, 2018, 5, 699-704.	6.6	37
27	Thermoresponsive Polyrotaxane Aerogels: Converting Molecular Necklaces into Tough Porous Monoliths. ACS Applied Materials & Interfaces, 2018, 10, 1468-1473.	8.0	36
28	Reversible superhydrophobic coatings on lifeless and biotic surfaces via dry-painting of aerogel microparticles. Journal of Materials Chemistry A, 2016, 4, 11408-11415.	10.3	35
29	Photo-responsive cholesterol-substituted diacetylenic organogels: morphology tuning, photo-switching and photo-polymerization. Soft Matter, 2013, 9, 9785.	2.7	33
30	Surfactant-free synthesis of silica aerogel microspheres with hierarchically porous structure. Journal of Colloid and Interface Science, 2018, 515, 1-9.	9.4	31
31	Novel triblock copolymers comprising a polyrotaxane middle block flanked by PNIPAAm blocks showing both thermo- and solvent-response. Journal of Materials Chemistry, 2011, 21, 3243-3250.	6.7	30
32	Enabling Visibleâ€Lightâ€Driven Selective CO₂ Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H₂ Evolution. Angewandte Chemie, 2018, 130, 16685-16689.	2.0	28
33	Formation of a Polypseudorotaxane via Selfâ€Assembly of Î³â€Cyclodextrin with Poly(Nâ€isopropylacrylamide). Macromolecular Rapid Communications, 2012, 33, 1143-1148.	3.9	27
34	Phase-separation induced synthesis of superhydrophobic silica aerogel powders and granules. Journal of Solid State Chemistry, 2019, 279, 120971.	2.9	26
35	Novel polyrotaxanes comprising Î³-cyclodextrins and Pluronic F127 end-capped with poly(N-isopropylacrylamide) showing solvent-responsive crystal structures. Polymer, 2011, 52, 347-355.	3.8	25
36	Advances in Cyclodextrin Polymers and Their Applications in Biomedicine. Acta Chimica Sinica, 2020, 78, 232.	1.4	21

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37	Design and Fabrication of Polymeric Hydrogel Carrier for Nerve Repair. Polymers, 2022, 14, 1549.	4.5	21
38	A differential extended gate-AlGaN/GaN HEMT sensor for real-time detection of ionic pollutants. Analytical Methods, 2019, 11, 3981-3986.	2.7	20
39	Flexible and Adaptable Fuel Cell Pack with High Energy Density Realized by a Bifunctional Catalyst. ACS Applied Materials & Interfaces, 2020, 12, 4473-4481.	8.0	19
40	Synthesis and morphology of allâ€conjugated donorâ€“acceptor block copolymers based on poly(3â€hexylthiophene) and poly(naphthalene diimide). Journal of Polymer Science Part A, 2014, 52, 1139-1148.	2.3	18
41	Autocatalytic synthesis of molecular-bridged silica aerogels with excellent absorption and super elasticity. RSC Advances, 2015, 5, 91407-91413.	3.6	18
42	Robust urethane-bridged silica aerogels available for water-carved aerosculptures. New Journal of Chemistry, 2017, 41, 1953-1958.	2.8	18
43	Substrate consumption and biomass growth of Ralstonia eutropha at various S0/X0 levels in batch cultures. Bioresource Technology, 2007, 98, 2599-2604.	9.6	15
44	Stable and Unconventional Conformation of Single PEG Bent Î³â€CDâ€Based Polypseudorotaxanes. Macromolecular Chemistry and Physics, 2011, 212, 2319-2327.	2.2	14
45	Superhydrophobic polyimide aerogels via conformal coating strategy with excellent underwater performances. Journal of Applied Polymer Science, 2020, 137, 48849.	2.6	13
46	Residing states of Î²-cyclodextrins in solid-state polyrotaxanes comprising pluronic F127 and PNIPAAm. Polymer, 2011, 52, 5362-5368.	3.8	12
47	Poly(n-butyl methacrylate) end-capped polyrotaxanes via ATRP initiated with Î±-cyclodextrin and Pluronic 17R4 based inclusion complexes. Polymer, 2012, 53, 2864-2872.	3.8	12
48	Wearable Multiparameter Platform Based on AlGaN/GaN Highâ€electronâ€mobility Transistors for Realâ€time Monitoring of pH and Potassium Ions in Sweat. Electroanalysis, 2020, 32, 422-428.	2.9	12
49	Synthesis and characterization of polyrotaxanes comprising Î±-cyclodextrins and poly(Îµ-caprolactone) end-capped with poly(N-isopropylacrylamide)s. Polymer, 2012, 53, 2361-2368.	3.8	10
50	Ambipolar field-effect transistors using conjugated polymers with structures of bilayer, binary blends, and paralleled nanofibers. Journal of Materials Chemistry C, 2014, 2, 7489-7493.	5.5	10
51	InGaN-Based Quantum Well Superluminescent Diode Monolithically Grown on Si. ACS Photonics, 2019, 6, 2104-2109.	6.6	10
52	The intrinsic microstructure of supramolecular hydrogels derived from Î±-cyclodextrin and pluronic F127: nanosheet building blocks and hierarchically self-assembled structures. Soft Matter, 2020, 16, 5906-5909.	2.7	10
53	Silica Aerogels with Self-Reinforced Microstructure for Bioinspired Hydrogels. Langmuir, 2021, 37, 5923-5931.	3.5	10
54	Suppression of lithium dendrite by aramid nanofibrous aerogel separator. Journal of Power Sources, 2021, 515, 230608.	7.8	10

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55	Distinguishing channel-type crystal structure from dispersed structure in Î²-cyclodextrin based polyrotaxanes via FTIR spectroscopy. Frontiers of Materials Science, 2011, 5, 329-334.	2.2	9
56	Looseâ€Fit Polypseudorotaxanes Fabricated by Î³â€CDs Threaded Onto a Single PNIPAAmâ€PEGâ€PNIPAAm Chain in Aqueous Solution. Macromolecular Chemistry and Physics, 2012, 213, 1532-1539.	2.2	9
57	Recyclable Nanoporous Materials with Ordered Tunnels Selfâ€Assembled from Î±â€•and Î³â€Cyclodextrins. ChemNanoMat, 2019, 5, 838-846.	2.8	9
58	InGaN-Based Lasers with an Inverted Ridge Waveguide Heterogeneously Integrated on Si(100). ACS Photonics, 2020, 7, 2636-2642.	6.6	8
59	Advances on Dimensional Structure Designs and Functional Applications of Aerogels. Acta Chimica Sinica, 2021, 79, 430.	1.4	8
60	An electronic enzyme-linked immunosorbent assay platform for protein analysis based on magnetic beads and AlGaN/GaN high electron mobility transistors. Analyst, The, 2020, 145, 2725-2730.	3.5	8
61	All-conjugated donorâ€“acceptor graft/block copolymers as single active components and surfactants in all-polymer solar cells. Microsystem Technologies, 2017, 23, 1183-1189.	2.0	6
62	Slightly Crossâ€Linked Polyrotaxanes Made by Linking Î±â€Cyclodextrins Entrapped in Polyrotaxanes Using Hexamethylene Diisocyanate. Chinese Journal of Chemistry, 2012, 30, 2453-2460.	4.9	5
63	Graphene Hybrid Aerogels Made via Phase Transfer Strategy. Advanced Materials Interfaces, 2016, 3, 1600541.	3.7	5
64	Robust Silicaâ€“Polyimide Aerogel Blanket for Water-Proof and Flame-Retardant Self-Floating Artificial Island. Frontiers in Materials, 2021, 8, .	2.4	5
65	Polyrotaxane-based triblock copolymers synthesized via ATRP of N-isopropylacrylamide initiated from the terminals of polypseudorotaxane of Br end-capped pluronic 17R4 and Î²-cyclodextrins. Science China Chemistry, 2012, 55, 1115-1124.	8.2	4
66	Functionalization of Silica Microparticles with Multiple-Responsive Copolymers for Smart Controlled Chromatograph. Industrial & Engineering Chemistry Research, 2018, 57, 352-360.	3.7	4
67	Design, Synthesis, and Use of High Temperature Resistant Aerogels Exceeding 800 oC. ES Materials & Manufacturing, 2021, , .	1.9	4
68	Ultralight hybrid silica aerogels derived from supramolecular hydrogels self-assembled from insoluble nano building blocks. RSC Advances, 2021, 11, 7331-7337.	3.6	4
69	Solidâ€“Liquidâ€“Vapor Triphase Gel. Langmuir, 2021, 37, 13501-13511.	3.5	4
70	Nonlinear optical switching of PDA/Ag hybrid materials based on temperature- and pH-responsive threading and dethreading of cyclodextrin polypseudorotaxane. Applied Physics A: Materials Science and Processing, 2012, 109, 621-626.	2.3	3
71	Effects of catalyst loading amount on the synthesis of poly(3-hexylthiophene) via externally initiated Kumada catalyst-transfer polycondensation. Frontiers of Materials Science, 2014, 8, 383-390.	2.2	3
72	Synthesis of All-Conjugated ABA and AB-type Donor-Acceptor Block Copolymers and Their Application in All-Polymer Solar Cells. Materials Research Society Symposia Proceedings, 2014, 1628, 1.	0.1	1

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73	Hybrid Aerogels: Graphene Hybrid Aerogels Made via Phase Transfer Strategy (Adv. Mater. Interfaces) Tj ETQq1 1 0.784314 rgBT /Ove lo	3.7	1
74	Mass Formation of Î±-Cyclodextrin Hexagonal Rods by the Direct Solvent Evaporation Strategy. ACS Applied Bio Materials, 2021, 4, 8033-8038.	4.6	1