Wei Wang

List of Publications by Year
in descending order

72 papers	3,723 citations	236925 25 h-index	128289 60 g-index
75 all docs	75 docs citations	75 times ranked	6461 citing authors

#	Article	IF	Citations
1	Porous molybdenum carbide nano-octahedrons synthesized via confined carburization in metal-organic frameworks for efficient hydrogen production. Nature Communications, 2015, 6, 6512.	12.8	1,194
2	Recent Progress in Metalâ€Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. Advanced Science, 2017, 4, 1600371.	11.2	594
3	Enhanced Cathodic Oxygen Reduction and Power Production of Microbial Fuel Cell Based on Nobleâ€Metalâ€Free Electrocatalyst Derived from Metalâ€Organic Frameworks. Advanced Energy Materials, 2016, 6, 1501497.	19.5	241
4	Metallogels: Availability, Applicability, and Advanceability. Advanced Materials, 2019, 31, e1806204.	21.0	112
5	A Tumor-Targeting Near-Infrared Heptamethine Cyanine Photosensitizer with Twisted Molecular Structure for Enhanced Imaging-Guided Cancer Phototherapy. Journal of the American Chemical Society, 2021, 143, 20828-20836.	13.7	94
6	Electrochemical DNA biosensor fabrication with hollow gold nanospheres modified electrode and its enhancement in DNA immobilization and hybridization. Biosensors and Bioelectronics, 2010, 25, 1640-1645.	10.1	90
7	Oxygen Vacancies of Cr-Doped CeO₂ Nanorods That Efficiently Enhance the Performance of Electrocatalytic N₂ Fixation to NH₃ under Ambient Conditions. Inorganic Chemistry, 2019, 58, 5423-5427.	4.0	88
8	Influence of pH on the Aggregation Morphology of a Novel Surfactant with Single Hydrocarbon Chain and Multi-Amine Headgroups. Journal of Physical Chemistry B, 2008, 112, 1409-1413.	2.6	74
9	TiO₂/Fe₂O₃ heterostructures with enhanced photocatalytic reduction of Cr(<scp>vi</scp>) under visible light irradiation. RSC Advances, 2019, 9, 22764-22771.	3.6	60
10	Bamboo-like nitrogen-doped porous carbon nanofibers encapsulated nickelâ€“cobalt alloy nanoparticles composite material derived from the electrospun fiber of a bimetalâ€“organic framework as efficient bifunctional oxygen electrocatalysts. Nanoscale, 2020, 12, 5942-5952.	5.6	59
11	Ball-milling synthesis of Co₂P nanoparticles encapsulated in nitrogen doped hollow carbon rods as efficient electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 17563-17569.	10.3	57
12	2-Methylimidazole as a nitrogen source assisted synthesis of a nano-rod-shaped Fe/FeN@N-C catalyst with plentiful FeN active sites and enhanced ORR activity. Applied Surface Science, 2020, 533, 147481.	6.1	54
13	Flower-like nickelâ€“cobalt layered hydroxide nanostructures for super long-life asymmetrical supercapacitors. Electrochimica Acta, 2019, 321, 134711.	5.2	52
14	Highly efficient and selective removal of Cr(VI) by covalent organic frameworks: Structure, performance and mechanism. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 600, 124910.	4.7	47
15	Bifunctional cellulose derivatives for the removal of heavyâ€metal ions and phenols: Synthesis and adsorption studies. Journal of Applied Polymer Science, 2015, 132, .	2.6	46
16	CdS nanoparticles modified Ni@NiO spheres as photocatalyst for oxygen production in water oxidation system and hydrogen production in water reduction system. Chemical Engineering Journal, 2020, 395, 125068.	12.7	43
17	MOF based sheet-assembled flowers CdS-MoS2 composite for enhanced visible-light hydrogen production. Applied Surface Science, 2020, 511, 145355.	6.1	42
18	Protective effect of PEGylation against poly(amidoamine) dendrimerâ€induced hemolysis of human red blood cells. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 59-64.	3.4	40

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19	A unique thermo-induced gel-to-gel transition in a pH-sensitive small-molecule hydrogel. Scientific Reports, 2017, 7, 8459.	3.3	34
20	Green synthesis of amphipathic graphene aerogel constructed by using the framework of polymer-surfactant complex for water remediation. Applied Surface Science, 2018, 444, 399-406.	6.1	32
21	Influence of Generation 2?5 of PAMAM Dendrimer on the Inhibition of Tat Peptide/ TAR RNA Binding in HIV-1 Transcription. Chemical Biology and Drug Design, 2006, 68, 314-318.	3.2	31
22	Formation of polydiacetyleneâ€“NH2â€“gold hollow spheres and their ability in DNA immobilization. Nanotechnology, 2005, 16, 2582-2586.	2.6	29
23	Precise size control of hydrophobic gold nanoparticles using cooperative effect of refluxing ripening and seeding growth. Nanotechnology, 2008, 19, 175603.	2.6	28
24	AgCl and Ag/AgCl hollow spheres based on self-assemblies of a multi-amine head surfactant. Journal of Colloid and Interface Science, 2009, 338, 270-275.	9.4	28
25	Oriented Assembly of Anisotropic Nanosheets into Ultrathin Flowerlike Superstructures for Energy Storage. ACS Nano, 2021, 15, 2707-2718.	14.6	28
26	Ni-doped CdS porous cubes prepared from prussian blue nanoarchitectonics with enhanced photocatalytic hydrogen evolution performance. International Journal of Hydrogen Energy, 2022, 47, 3752-3761.	7.1	27
27	Photocatalytic TiO2/rGO/CuO Composite for Wastewater Treatment of Cr(VI) Under Visible Light. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	25
28	Determining the scaling of gel mesh size with changing crosslinker concentration using dynamic swelling, rheometry, and <scp>PGSE NMR</scp> spectroscopy. Journal of Applied Polymer Science, 2018, 135, 46695.	2.6	24
29	Salinity Gradient Energy from Expansion and Contraction of Poly(allylamine hydrochloride) Hydrogels. ACS Applied Materials & Interfaces, 2018, 10, 22218-22225.	8.0	24
30	A dynamic light scattering study of hydrogels with the addition of surfactant: a discussion of mesh size and correlation length. Polymer Journal, 2015, 47, 302-310.	2.7	23
31	TAT-Modified Gold Nanoparticles Enhance the Antitumor Activity of PAD4 Inhibitors . International Journal of Nanomedicine, 2020, Volume 15, 6659-6671.	6.7	20
32	Interface optimization of hole-conductor free perovskite solar cells using porous carbon materials derived from biomass soybean dregs as a cathode. Journal of Alloys and Compounds, 2020, 842, 155851.	5.5	20
33	Ultra-fast degradation of phenolics and dyes by Cu2O/Cu catalysts: Synthesis and degradation kinetics. Journal of Environmental Chemical Engineering, 2021, 9, 105505.	6.7	18
34	Synthesis of a montmorilloniteâ€supported titania nanocomposite with grafted cellulose as a template and its application in photocatalytic degradation. Journal of Applied Polymer Science, 2015, 132, .	2.6	17
35	Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. Nature Communications, 2021, 12, 5661.	12.8	17
36	Fast shape recovery by changing the grafting ratio in polyurethane/montmorilloniteâ€“poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.7	16

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37	Manipulating the Solubility of Gold Nanoparticles Reversibly and Preparation of Water-Soluble Sphere Nanostructure through Micellar-like Solubilization. Journal of Physical Chemistry B, 2006, 110, 16867-16873.	2.6	15
38	PU/PMMA composites synthesized by reaction-induced phase separation: a general approach to achieve a shape memory effect. RSC Advances, 2017, 7, 33701-33707.	3.6	15
39	Mechanism of the Significant Acceleration of Polyethylene Terephthalate Glycolysis by Defective Ultrathin ZnO Nanosheets with Heteroatom Doping. ACS Sustainable Chemistry and Engineering, 2022, 10, 5476-5488.	6.7	15
40	Kinetics of Re-equilibrium of Oppositely Charged Hydrogelâ€“Surfactant System and Its Application in Controlled Release. Langmuir, 2013, 29, 6697-6705.	3.5	13
41	Organo-montmorillonite supported titania nanocomposite synthesized by using poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 22, 3189-3198.	4.9	13
42	Highly stretchable and compressible shape memory hydrogels based on polyurethane network and supramolecular interaction. Materials Today Communications, 2018, 17, 246-251.	1.9	13
43	Au nanoparticle-doped Co₃O₄â€“CoFe₂O₄@SiO₂ as a catalyst for visible-light-driven water oxidation. New Journal of Chemistry, 2018, 42, 14757-14765.	2.8	13
44	DMAEMA-grafted cellulose as an imprinted adsorbent for the selective adsorption of 4-nitrophenol. Cellulose, 2021, 28, 6481.	4.9	13
45	pH responsive vesicles with tunable size formed by single-tailed surfactants with a dendritic headgroup. RSC Advances, 2017, 7, 22079-22085.	3.6	12
46	Conversion of low molecular weight hydrogel to nitrogen-doped carbon materials and its application as supercapacitor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 573, 255-261.	4.7	12
47	Recovered Energy from Salinity Gradients Utilizing Various Poly(Acrylic Acid)-Based Hydrogels. Polymers, 2021, 13, 645.	4.5	12
48	Preparation and Properties of Polyurethane Hydrogels Based on Methylene Diphenyl Diisocyanate/Polycaprolactone-Polyethylene Glycol. Journal of Macromolecular Science - Physics, 2016, 55, 839-848.	1.0	11
49	Constructing Porous Carbon Nanomaterials using Redox-Induced Low Molecular Weight Hydrogels and their Application as Supercapacitors. ChemistrySelect, 2017, 2, 9330-9335.	1.5	11
50	Complex coacervate micelles formed by a C18-capped cationic triblock thermoresponsive copolymer interacting with SDS. Soft Matter, 2012, 8, 11514.	2.7	10
51	Porous MoWN/MoWC@N C Nano-octahedrons synthesized via confined carburization and vapor deposition in MOFs as efficient trifunctional electrocatalysts for oxygen reversible catalysis and hydrogen production in the same electrolyte. Journal of Colloid and Interface Science, 2021, 601, 626-639.	9.4	10
52	Fast photodegradation of antibiotics and dyes by an anionic surfactant-aided CdS/ZnO nanodispersion. New Journal of Chemistry, 2022, 46, 11303-11314.	2.8	9
53	Synthesis of a nanocomposite of organo-montmorillonite/cellulose-g-poly(methyl methacrylate) by atom-transfer radical polymerization and its application in removal of 2,4-dichlorophenol. Cellulose, 2015, 22, 3633-3643.	4.9	8
54	Effect of Charge Density Matching on the Temperature Response of PNIPAAM Block Copolymerâ€“Gold Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 12844-12853.	3.1	7

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55	Monitoring of macromolecular dynamics during a chemical cross-linking process of hydroxyethylcellulose derivatives by dynamic light scattering. European Polymer Journal, 2014, 58, 52-59.	5.4	7
56	Underwater superoleophobic polyurethane-coated mesh with excellent stability for oil/water separation. RSC Advances, 2018, 8, 39657-39666.	3.6	7
57	MCM-41-Accelerated PWA Catalysis of Friedel-Crafts Reaction of Indoles and Isatins. Journal of Chemistry, 2018, 2018, 1-6.	1.9	7
58	Application of Antisolvent Precipitation Method for Formulating Excipient-Free Nanoparticles of Psychotropic Drugs. Pharmaceutics, 2022, 14, 819.	4.5	7
59	A multi-headed surfactant as an efficient tool in solubilization of dimyristoylphosphatidycholine (DMPC) vesicles. Colloids and Surfaces B: Biointerfaces, 2013, 102, 759-765.	5.0	6
60	Selective co-deposition of anionic silica particles at hydrophobic surfaces from formulations of oppositely charged polymers and surfactants. Journal of Colloid and Interface Science, 2016, 467, 213-219.	9.4	6
61	Cellulose-g-tetraethylenepentamine dual-function imprinted polymers selectively and effectively adsorb and remove 4-nitrophenol and Cr(VI). Cellulose, 2022, 29, 3389-3406.	4.9	6
62	One-step synthesis of gold nanowire network capped by diacetylene molecules under ultrasonic irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 317, 239-246.	4.7	5
63	Osmotic engine converting energy from salinity difference to a hydraulic accumulator by utilizing polyelectrolyte hydrogels. Energy, 2021, 232, 121055.	8.8	5
64	Spherical shell CdS@NiO Z-scheme composites for solar-driven overall water splitting and carbon dioxide reduction. Materials Today Energy, 2022, 27, 101044.	4.7	5
65	Moderate the adsorption of cationic surfactant on gold surface by mixing with sparingly soluble anionic surfactant. Journal of Colloid and Interface Science, 2015, 440, 16-22.	9.4	4
66	Multiâ€stimuli responsive shape memory polymers synthesized by using reactionâ€induced phase separation. Journal of Applied Polymer Science, 2016, 133, .	2.6	4
67	Rational selection of halide ions for synthesizing highly active Au@Pd nanobipyramids. RSC Advances, 2017, 7, 36867-36875.	3.6	3
68	Effects of Strain and Kinetics on the H2O2-Assisted Reconstruction of Agâ€“Auâ€“Ag Nanorods. Langmuir, 2020, 36, 9770-9779.	3.5	3
69	Synthesis of penta-fold twinned Pd-Au-Pd segmental nanorods for in situ monitoring catalytic reaction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125490.	4.7	3
70	Energy Lost in a Hydrogel Osmotic Engine Due to a Pressure Drop. Industrial & Engineering Chemistry Research, 2021, 60, 13348-13357.	3.7	3
71	Real time rheological study of first network effects on the in situ polymerized semi-interpenetrating hydrogels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 111-117.	4.7	2
72	Co-hydrogelation of Dendritic Surfactant and Amino Acids in Their Common Naturally-occurring Forms: A Study of Morphology and Mechanisms. Colloid Journal, 2019, 81, 253-260.	1.3	0