

# Wei Wang

## List of Publications by Year in descending order

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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	Ni-doped CdS porous cubes prepared from prussian blue nanoarchitectonics with enhanced photocatalytic hydrogen evolution performance. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3752-3761.	7.1	27
2	Cellulose-g-tetraethylenepentamine dual-function imprinted polymers selectively and effectively adsorb and remove 4-nitrophenol and Cr(VI). <i>Cellulose</i> , 2022, 29, 3389-3406.	4.9	6
3	Application of Antisolvent Precipitation Method for Formulating Excipient-Free Nanoparticles of Psychotropic Drugs. <i>Pharmaceutics</i> , 2022, 14, 819.	4.5	7
4	Mechanism of the Significant Acceleration of Polyethylene Terephthalate Glycolysis by Defective Ultrathin ZnO Nanosheets with Heteroatom Doping. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5476-5488.	6.7	15
5	Spherical shell CdS@NiO Z-scheme composites for solar-driven overall water splitting and carbon dioxide reduction. <i>Materials Today Energy</i> , 2022, 27, 101044.	4.7	5
6	Fast photodegradation of antibiotics and dyes by an anionic surfactant-aided CdS/ZnO nanodispersion. <i>New Journal of Chemistry</i> , 2022, 46, 11303-11314.	2.8	9
7	Oriented Assembly of Anisotropic Nanosheets into Ultrathin Flowerlike Superstructures for Energy Storage. <i>ACS Nano</i> , 2021, 15, 2707-2718.	14.6	28
8	DMAEMA-grafted cellulose as an imprinted adsorbent for the selective adsorption of 4-nitrophenol. <i>Cellulose</i> , 2021, 28, 6481.	4.9	13
9	Ultra-fast degradation of phenolics and dyes by Cu <sub>2</sub> O/Cu catalysts: Synthesis and degradation kinetics. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105505.	6.7	18
10	Energy Lost in a Hydrogel Osmotic Engine Due to a Pressure Drop. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 13348-13357.	3.7	3
11	Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. <i>Nature Communications</i> , 2021, 12, 5661.	12.8	17
12	Osmotic engine converting energy from salinity difference to a hydraulic accumulator by utilizing polyelectrolyte hydrogels. <i>Energy</i> , 2021, 232, 121055.	8.8	5
13	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. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 626-639.	9.4	10
14	Recovered Energy from Salinity Gradients Utilizing Various Poly(Acrylic Acid)-Based Hydrogels. <i>Polymers</i> , 2021, 13, 645.	4.5	12
15	A Tumor-Targeting Near-Infrared Heptamethine Cyanine Photosensitizer with Twisted Molecular Structure for Enhanced Imaging-Guided Cancer Phototherapy. <i>Journal of the American Chemical Society</i> , 2021, 143, 20828-20836.	13.7	94
16	&lt;p&gt;TAT-Modified Gold Nanoparticles Enhance the Antitumor Activity of PAD4 Inhibitors&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6659-6671.	6.7	20
17	Interface optimization of hole-conductor free perovskite solar cells using porous carbon materials derived from biomass soybean dregs as a cathode. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155851.	5.5	20
18	Effects of Strain and Kinetics on the H <sub>2</sub> O <sub>2</sub> -Assisted Reconstruction of Ag@Au@Ag Nanorods. <i>Langmuir</i> , 2020, 36, 9770-9779.	3.5	3

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19	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. <i>Applied Surface Science</i> , 2020, 533, 147481.	6.1	54
20	Synthesis of penta-fold twinned Pd-Au-Pd segmental nanorods for in situ monitoring catalytic reaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125490.	4.7	3
21	Photocatalytic TiO <sub>2</sub> /rGO/CuO Composite for Wastewater Treatment of Cr(VI) Under Visible Light. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	25
22	Highly efficient and selective removal of Cr(VI) by covalent organic frameworks: Structure, performance and mechanism. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 600, 124910.	4.7	47
23	MOF based sheet-assembled flowers CdS-MoS <sub>2</sub> composite for enhanced visible-light hydrogen production. <i>Applied Surface Science</i> , 2020, 511, 145355.	6.1	42
24	CdS nanoparticles modified Ni@NiO spheres as photocatalyst for oxygen production in water oxidation system and hydrogen production in water reduction system. <i>Chemical Engineering Journal</i> , 2020, 395, 125068.	12.7	43
25	Bamboo-like nitrogen-doped porous carbon nanofibers encapsulated nickel-cobalt alloy nanoparticles composite material derived from the electrospun fiber of a bimetal-organic framework as efficient bifunctional oxygen electrocatalysts. <i>Nanoscale</i> , 2020, 12, 5942-5952.	5.6	59
26	TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> heterostructures with enhanced photocatalytic reduction of Cr(VI) under visible light irradiation. <i>RSC Advances</i> , 2019, 9, 22764-22771.	3.6	60
27	Flower-like nickel-cobalt layered hydroxide nanostructures for super long-life asymmetrical supercapacitors. <i>Electrochimica Acta</i> , 2019, 321, 134711.	5.2	52
28	Metallogels: Availability, Applicability, and Advanceability. <i>Advanced Materials</i> , 2019, 31, e1806204.	21.0	112
29	Co-hydrogelation of Dendritic Surfactant and Amino Acids in Their Common Naturally-occurring Forms: A Study of Morphology and Mechanisms. <i>Colloid Journal</i> , 2019, 81, 253-260.	1.3	0
30	Conversion of low molecular weight hydrogel to nitrogen-doped carbon materials and its application as supercapacitor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 573, 255-261.	4.7	12
31	Oxygen Vacancies of Cr-Doped CeO <sub>2</sub> Nanorods That Efficiently Enhance the Performance of Electrocatalytic N <sub>2</sub> Fixation to NH <sub>3</sub> under Ambient Conditions. <i>Inorganic Chemistry</i> , 2019, 58, 5423-5427.	4.0	88
32	Real time rheological study of first network effects on the in situ polymerized semi-interpenetrating hydrogels. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 575, 111-117.	4.7	2
33	Green synthesis of amphipathic graphene aerogel constructed by using the framework of polymer-surfactant complex for water remediation. <i>Applied Surface Science</i> , 2018, 444, 399-406.	6.1	32
34	Underwater superoleophobic polyurethane-coated mesh with excellent stability for oil/water separation. <i>RSC Advances</i> , 2018, 8, 39657-39666.	3.6	7
35	Determining the scaling of gel mesh size with changing crosslinker concentration using dynamic swelling, rheometry, and PGSE NMR spectroscopy. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46695.	2.6	24
36	Highly stretchable and compressible shape memory hydrogels based on polyurethane network and supramolecular interaction. <i>Materials Today Communications</i> , 2018, 17, 246-251.	1.9	13

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37	MCM-41-Accelerated PWA Catalysis of Friedel-Crafts Reaction of Indoles and Isatins. <i>Journal of Chemistry</i> , 2018, 2018, 1-6.	1.9	7
38	Salinity Gradient Energy from Expansion and Contraction of Poly(allylamine hydrochloride) Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22218-22225.	8.0	24
39	Au nanoparticle-doped $\text{Co}_3\text{O}_4$ @ $\text{CoFe}_2\text{O}_4$ @ $\text{SiO}_2$ as a catalyst for visible-light-driven water oxidation. <i>New Journal of Chemistry</i> , 2018, 42, 14757-14765.	2.8	13
40	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. <i>Advanced Science</i> , 2017, 4, 1600371.	11.2	594
41	pH responsive vesicles with tunable size formed by single-tailed surfactants with a dendritic headgroup. <i>RSC Advances</i> , 2017, 7, 22079-22085.	3.6	12
42	Constructing Porous Carbon Nanomaterials using Redox-Induced Low Molecular Weight Hydrogels and their Application as Supercapacitors. <i>ChemistrySelect</i> , 2017, 2, 9330-9335.	1.5	11
43	A unique thermo-induced gel-to-gel transition in a pH-sensitive small-molecule hydrogel. <i>Scientific Reports</i> , 2017, 7, 8459.	3.3	34
44	Ball-milling synthesis of $\text{Co}_2\text{P}$ nanoparticles encapsulated in nitrogen doped hollow carbon rods as efficient electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17563-17569.	10.3	57
45	Rational selection of halide ions for synthesizing highly active Au@Pd nanobipyramids. <i>RSC Advances</i> , 2017, 7, 36867-36875.	3.6	3
46	PU/PMMA composites synthesized by reaction-induced phase separation: a general approach to achieve a shape memory effect. <i>RSC Advances</i> , 2017, 7, 33701-33707.	3.6	15
47	Fast shape recovery by changing the grafting ratio in polyurethane/montmorillonite-poly(methyl methacrylate) hydrogels. <i>Journal of Applied Polymer Science</i> , 2017, 133, 4314-4321.	2.7	16
48	Enhanced Cathodic Oxygen Reduction and Power Production of Microbial Fuel Cell Based on Noble-Metal-Free Electrocatalyst Derived from Metal-Organic Frameworks. <i>Advanced Energy Materials</i> , 2016, 6, 1501497.	19.5	241
49	Preparation and Properties of Polyurethane Hydrogels Based on Methylene Diphenyl Diisocyanate/Polycaprolactone-Polyethylene Glycol. <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 839-848.	1.0	11
50	Multi-stimuli responsive shape memory polymers synthesized by using reaction-induced phase separation. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	4
51	Selective co-deposition of anionic silica particles at hydrophobic surfaces from formulations of oppositely charged polymers and surfactants. <i>Journal of Colloid and Interface Science</i> , 2016, 467, 213-219.	9.4	6
52	Porous molybdenum carbide nano-octahedrons synthesized via confined carburization in metal-organic frameworks for efficient hydrogen production. <i>Nature Communications</i> , 2015, 6, 6512.	12.8	1,194
53	Bifunctional cellulose derivatives for the removal of heavy-metal ions and phenols: Synthesis and adsorption studies. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	46
54	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. <i>Cellulose</i> , 2015, 22, 3633-3643.	4.9	8

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55	Organo-montmorillonite supported titania nanocomposite synthesized by using poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TT 22, 3189-3198.	4.9	13
56	Synthesis of a montmorillonite-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
57	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
58	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
59	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
60	Kinetics of Re-equilibrium of Oppositely Charged Hydrogel-Surfactant System and Its Application in Controlled Release. Langmuir, 2013, 29, 6697-6705.	3.5	13
61	A multi-headed surfactant as an efficient tool in solubilization of dimyristoylphosphatidylcholine (DMPC) vesicles. Colloids and Surfaces B: Biointerfaces, 2013, 102, 759-765.	5.0	6
62	Effect of Charge Density Matching on the Temperature Response of PNIPAAm Block Copolymer-Gold Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 12844-12853.	3.1	7
63	Complex coacervate micelles formed by a C18-capped cationic triblock thermoresponsive copolymer interacting with SDS. Soft Matter, 2012, 8, 11514.	2.7	10
64	Protective effect of PEGylation against poly(amidoamine) dendrimer-induced hemolysis of human red blood cells. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 93B, 59-64.	3.4	40
65	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
66	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
67	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
68	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
69	Precise size control of hydrophobic gold nanoparticles using cooperative effect of refluxing ripening and seeding growth. Nanotechnology, 2008, 19, 175603.	2.6	28
70	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
71	Influence of Generation 275 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
72	Formation of polydiacetylene-NH <sub>2</sub> -gold hollow spheres and their ability in DNA immobilization. Nanotechnology, 2005, 16, 2582-2586.	2.6	29