

Rong He

List of Publications by Year in descending order

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49
papers

2,853
citations

172457

29
h-index

214800

47
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all docs

49
docs citations

49
times ranked

3390
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-free 2D/2D C ₃ N ₅ /GO nanosheets with customized energy-level structure for radioactive nuclear wastewater treatment. <i>Journal of Hazardous Materials</i> , 2022, 422, 126912.	12.4	49
2	Three-dimensional C ₃ N ₅ /RGO aerogels with enhanced visible-light response and electron-hole separation efficiency for photocatalytic uranium reduction. <i>Chemical Engineering Journal</i> , 2022, 427, 131773.	12.7	56
3	Introduction of cation vacancies and iron doping into TiO ₂ enabling efficient uranium photoreduction. <i>Journal of Hazardous Materials</i> , 2022, 423, 126935.	12.4	48
4	Au atoms doped in Ti ₃ C ₂ T _x MXene: Benefiting recovery of oxygen vacancies towards photocatalytic aerobic oxidation. <i>Nano Research</i> , 2022, 15, 2862-2869.	10.4	25
5	Hydrogen-incorporated vanadium dioxide nanosheets enable efficient uranium confinement and photoreduction. <i>Nano Research</i> , 2022, 15, 2943-2951.	10.4	14
6	Enhanced uranium photoreduction on Ti ₃ C ₂ T _x MXene by modulation of surface functional groups and deposition of plasmonic metal nanoparticles. <i>Journal of Hazardous Materials</i> , 2022, 426, 127823.	12.4	38
7	Synthesis of Uranium Single Atom from Radioactive Wastewater for Enhanced Water Dissociation and Hydrogen Evolution. <i>Small</i> , 2022, 18, e2107444.	10.0	17
8	Sulfur edge in molybdenum disulfide nanosheets achieves efficient uranium binding and electrocatalytic extraction in seawater. <i>Nanoscale</i> , 2022, 14, 6285-6290.	5.6	16
9	Synthesis of Uranium Single Atom from Radioactive Wastewater for Enhanced Water Dissociation and Hydrogen Evolution (Small 11/2022). <i>Small</i> , 2022, 18, .	10.0	0
10	Semiconducting Metal-Organic Frameworks Decorated with Spatially Separated Dual Cocatalysts for Efficient Uranium(VI) Photoreduction. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	94
11	Constructing hotspots through star-shaped gold-copper alloy nanocrystals for laser initiation of explosives. <i>Optics and Laser Technology</i> , 2022, 152, 108120.	4.6	1
12	Elemental Doping Induced Sulfur Vacancies Enable Efficient Electrochemical Reduction of CO ₂ over CdS Nanorods. <i>Journal of Physical Chemistry C</i> , 2022, 126, 102-109.	3.1	12
13	Connection of Ru nanoparticles with rich defects enables the enhanced electrochemical reduction of nitrogen. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11491-11495.	2.8	2
14	Advanced photocatalysts for uranium extraction: Elaborate design and future perspectives. <i>Coordination Chemistry Reviews</i> , 2022, 467, 214615.	18.8	170
15	Achieving efficient photocatalytic uranium extraction within a record short period of 3 min by Up-conversion erbium doped ZnO nanosheets. <i>Chemical Engineering Journal</i> , 2022, 450, 138044.	12.7	22
16	In-situ oxidized tungsten disulfide nanosheets achieve ultrafast photocatalytic extraction of uranium through hydroxyl-mediated binding and reduction. <i>Nano Research</i> , 2022, 15, 8810-8818.	10.4	11
17	Efficient uranium reduction of bacterial cellulose-MoS ₂ heterojunction via the synergistically effect of Schottky junction and S-vacancies engineering. <i>Chemical Engineering Journal</i> , 2021, 406, 126791.	12.7	91
18	Harmonizing the energy band between adsorbent and semiconductor enables efficient uranium extraction. <i>Chemical Engineering Journal</i> , 2021, 420, 127645.	12.7	24

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19	Encapsulating Ag nanoparticles into ZIF-8 as an efficient strategy to boost uranium photoreduction without sacrificial agents. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9809-9814.	10.3	30
20	Efficient Photocatalytic Extraction of Uranium over Ethylenediamine Capped Cadmium Sulfide Telluride Nanobelts. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11968-11976.	8.0	32
21	Boosting the oxygen evolution activity over cobalt nitride nanosheets through optimizing the electronic configuration. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119894.	20.2	56
22	Cu-based nanocrystals on ZnO for uranium photoreduction: Plasmon-assisted activity and entropy-driven stability. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 119978.	20.2	59
23	Constructing interparticle hotspots through cracking silver nanoplates for laser initiation of explosives. <i>Optics and Laser Technology</i> , 2021, 139, 106989.	4.6	2
24	Enhanced photoreduction of U(VI) on WO ₃ nanosheets by oxygen defect engineering. <i>Chemical Engineering Journal</i> , 2021, 416, 129164.	12.7	78
25	Heavy metal fixation of lead-contaminated soil using <i>Morchella</i> mycelium. <i>Environmental Pollution</i> , 2021, 289, 117829.	7.5	11
26	Tellurium nanowires wrapped by surface oxidized tin disulfide nanosheets achieves efficient photocatalytic reduction of U(VI). <i>Chemical Engineering Journal</i> , 2021, 426, 130756.	12.7	42
27	Single-atom Fe@N ₄ site for the hydrogenation of nitrobenzene: theoretical and experimental studies. <i>Dalton Transactions</i> , 2021, 50, 7995-8001.	3.3	2
28	Efficient extraction of uranium in organics-containing wastewater over g-C ₃ N ₄ /GO hybrid nanosheets with type-II band structure. <i>Journal of Hazardous Materials</i> , 2020, 384, 121383.	12.4	79
29	Boosting the Loading of Metal Single Atoms via a Bioconcentration Strategy. <i>Small</i> , 2020, 16, e1905920.	10.0	40
30	Bio-Inspired Biomass-Derived Carbon Aerogels with Superior Mechanical Property for Oil-Water Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6458-6465.	6.7	61
31	Decoration of In nanoparticles on In ₂ S ₃ nanosheets enables efficient electrochemical reduction of CO ₂ . <i>Chemical Communications</i> , 2020, 56, 4212-4215.	4.1	30
32	Superhydrophilic and highly elastic monolithic sponge for efficient solar-driven radioactive wastewater treatment under one sun. <i>Journal of Hazardous Materials</i> , 2020, 392, 122350.	12.4	119
33	Mineralization Mechanism of Mineralization Bacteria on Strontium Crystallization of Simulated Radionuclides. <i>Crystal Research and Technology</i> , 2020, 55, 1900133.	1.3	5
34	Ultra-high nitrogen content biomass carbon supercapacitors and nitrogen forms analysis. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151664.	5.5	36
35	Understanding the interfacial interactions of bioinspired chitosan-calcite nanocomposites by first principles molecular dynamics simulations and experimental FT-IR spectroscopy. <i>Carbohydrate Polymers</i> , 2019, 223, 115054.	10.2	9
36	Supercapacitors with high nitrogen content by cage-like <i>Ganoderma lucidum</i> spore. <i>Applied Surface Science</i> , 2019, 494, 230-238.	6.1	17

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37	Hybridization of Defective Tin Disulfide Nanosheets and Silver Nanowires Enables Efficient Electrochemical Reduction of CO ₂ into Formate and Syngas. <i>Small</i> , 2019, 15, e1904882.	10.0	39
38	Bioconcentration and bioassembly of N/S co-doped carbon with excellent stability for supercapacitors. <i>Applied Surface Science</i> , 2019, 488, 316-325.	6.1	68
39	Integration of bio-inspired adsorption and photodegradation for the treatment of organics-containing radioactive wastewater. <i>Chemical Engineering Journal</i> , 2019, 364, 139-145.	12.7	47
40	Achieving the Widest Range of Syngas Proportions at High Current Density over Cadmium Sulfoselenide Nanorods in CO ₂ Electroreduction. <i>Advanced Materials</i> , 2018, 30, 1705872.	21.0	145
41	<i>Thalia dealbata</i> Inspired Anisotropic Cellular Biomass Derived Carbonaceous Aerogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17152-17159.	6.7	51
42	Nickel Doping in Atomically Thin Tin Disulfide Nanosheets Enables Highly Efficient CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10954-10958.	13.8	186
43	Nickel Doping in Atomically Thin Tin Disulfide Nanosheets Enables Highly Efficient CO ₂ Reduction. <i>Angewandte Chemie</i> , 2018, 130, 11120-11124.	2.0	42
44	Molybdenum Disulfide-Black Phosphorus Hybrid Nanosheets as a Superior Catalyst for Electrochemical Hydrogen Evolution. <i>Nano Letters</i> , 2017, 17, 4311-4316.	9.1	211
45	Pentacle gold-copper alloy nanocrystals: a new system for entering male germ cells in vitro and in vivo. <i>Scientific Reports</i> , 2016, 6, 39592.	3.3	3
46	Integration of Kinetic Control and Lattice Mismatch To Synthesize Pd@AuCu Core-Shell Planar Tetrapods with Size-Dependent Optical Properties. <i>Nano Letters</i> , 2016, 16, 3036-3041.	9.1	58
47	Chloride-induced shape transformation of silver nanoparticles in a water environment. <i>Environmental Pollution</i> , 2015, 204, 145-151.	7.5	27
48	Facile synthesis of pentacle gold-copper alloy nanocrystals and their plasmonic and catalytic properties. <i>Nature Communications</i> , 2014, 5, 4327.	12.8	294
49	A New Nanobiocatalytic System Based on Allosteric Effect with Dramatically Enhanced Enzymatic Performance. <i>Journal of the American Chemical Society</i> , 2013, 135, 1272-1275.	13.7	284