Wencai Cheng

List of Publications by Year
in descending order

30 papers	3,283 citations	331670 21 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	2757 citing authors

#	Article	IF	Citations
1	Adsorption and Desorption of U(VI) on Functionalized Graphene Oxides: A Combined Experimental and Theoretical Study. Environmental Science & Technology, 2015, 49, 4255-4262.	10.0	473
2	Macroscopic and Microscopic Investigation of U(VI) and Eu(III) Adsorption on Carbonaceous Nanofibers. Environmental Science & Technology, 2016, 50, 4459-4467.	10.0	398
3	Recent developments in fabrication and structure regulation of visible-light-driven g-C3N4-based photocatalysts towards water purification: A critical review. Catalysis Today, 2019, 335, 65-77.	4.4	351
4	Simultaneous adsorption and reduction of U(VI) on reduced graphene oxide-supported nanoscale zerovalent iron. Journal of Hazardous Materials, 2014, 280, 399-408.	12.4	339
5	Novel fungus-Fe3O4 bio-nanocomposites as high performance adsorbents for the removal of radionuclides. Journal of Hazardous Materials, 2015, 295, 127-137.	12.4	227
6	Competitive sorption of Pb(II), Cu(II) and Ni(II) on carbonaceous nanofibers: A spectroscopic and modeling approach. Journal of Hazardous Materials, 2016, 313, 253-261.	12.4	169
7	Competitive sorption of As(V) and Cr(VI) on carbonaceous nanofibers. Chemical Engineering Journal, 2016, 293, 311-318.	12.7	166
8	Fabrication of fungus/attapulgite composites and their removal of U(VI) from aqueous solution. Chemical Engineering Journal, 2015, 269, 1-8.	12.7	131
9	Synergistic mechanism of U(VI) sequestration by magnetite-graphene oxide composites: Evidence from spectroscopic and theoretical calculation. Chemical Engineering Journal, 2017, 324, 113-121.	12.7	65
10	Direct Synthesis of Bacteria-Derived Carbonaceous Nanofibers as a Highly Efficient Material for Radionuclides Elimination. ACS Sustainable Chemistry and Engineering, 2016, 4, 4608-4616.	6.7	60
11	Plasma synthesis of Î²-cyclodextrin/Al(OH)3 composites as adsorbents for removal of UO22+ from aqueous solutions. Journal of Molecular Liquids, 2015, 207, 224-230.	4.9	56
12	The efficient enrichment of U(<scp>vi</scp>) by graphene oxide-supported chitosan. RSC Advances, 2014, 4, 61919-61926.	3.6	54
13	Fabrication of 3D Macroscopic Graphene Oxide Composites Supported by Montmorillonite for Efficient U(VI) Wastewater Purification. ACS Sustainable Chemistry and Engineering, 2017, 5, 5503-5511.	6.7	43
14	Microscopic and Spectroscopic Insights into Uranium Phosphate Mineral Precipitated by Bacillus Mucilaginosus. ACS Earth and Space Chemistry, 2017, 1, 483-492.	2.7	38
15	Zero-valent iron-aluminum for the fast and effective U(VI) removal. Journal of the Taiwan Institute of Chemical Engineers, 2018, 85, 186-192.	5.3	34
16	The sequestration of U(VI) on functional Î²-cyclodextrin-attapulgite nanorods. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 385-391.	1.5	33
17	Nano zero valent iron encapsulated in graphene oxide for reducing uranium. Chemosphere, 2021, 278, 130229.	8.2	23
18	Biosorption behavior and mechanism of thorium on Streptomyces sporoverrucosus dwc-3. Journal of Radioanalytical and Nuclear Chemistry, 2014, 301, 237-245.	1.5	22

#	Article	IF	Citations
19	Photocatalytic Removal of U(VI) from Wastewater via Synergistic Carbon-Supported Zero-Valent Iron Nanoparticles and S. Putrefaciens. ACS Applied Nano Materials, 2020, 3, 1131-1138.	5.0	22
20	Spectroscopic and theoretical investigation on efficient removal of U(VI) by amine-containing polymers. Chemical Engineering Journal, 2019, 367, 94-101.	12.7	21
21	A synergistic biosorption and biomineralization strategy for Kocuria sp. to immobilizing U(VI) from aqueous solution. Journal of Molecular Liquids, 2019, 275, 215-220.	4.9	18
22	Reactivity of carbonized fungi supported nanoscale zero-valent iron toward U(VI) influenced by naturally occurring ions. Journal of Industrial and Engineering Chemistry, 2018, 61, 236-243.	5.8	16
23	Microorganisms and radionuclides. Interface Science and Technology, 2019, , 107-139.	3.3	6
24	Design anion regulated layered double hydroxide and explore its theoretical mechanism of immobilizing uranium. Journal of Hazardous Materials, 2022, 437, 129352.	12.4	6
25	Surface interaction and biomineralization of uranium induced by the living and dead bacterial ghosts of Kocuria sp.. Journal of Environmental Chemical Engineering, 2022, 10, 107295.	6.7	5
26	Amide and phosphate groups modified bifunctional luffa fiber for highly efficient removal of U(VI) from real uranium wastewater. Journal of Radioanalytical and Nuclear Chemistry, 2021, 328, 591-604.	1.5	4
27	Mutual effects of Shewanella putrefaciens-montmorillonite and their impact on uranium immobilization. Chemosphere, 2022, 303, 135096.	8.2	4
28	Surface biomineralization of uranium onto Shewanella putrefaciens with or without extracellular polymeric substances. Ecotoxicology and Environmental Safety, 2022, 241, 113719.	6.0	4
29	Removal of U(VI) by nano-scale zero valent iron supported on porous organic polymers. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 845-855.	1.5	3
30	Spectroscopic and theoretical calculation insight into interaction mechanism between U(VI) and phospholipid under carbonate environment. Journal of Molecular Liquids, 2020, 305, 112852.	4.9	3