

# Kai Huang

## List of Publications by Year in descending order

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35  
papers

686  
citations

623734

14  
h-index

552781

26  
g-index

38  
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38  
docs citations

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times ranked

937  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of Lithium, Nickel, and Cobalt from Spent Lithium-Ion Battery Powders by Selective Ammonia Leaching and an Adsorption Separation System. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11489-11495.	6.7	118
2	Hierarchical metastable $\beta$ -TaON hollow structures for efficient visible-light water splitting. <i>Energy and Environmental Science</i> , 2013, 6, 2134.	30.8	104
3	In situ chemical reduction of the Ta <sub>3</sub> N <sub>5</sub> quantum dots coupled TaON hollow spheres heterojunction photocatalyst for water oxidation. <i>Journal of Materials Chemistry</i> , 2012, 22, 21972.	6.7	65
4	Removal of Pb <sup>2+</sup> from aqueous solution by adsorption on chemically modified muskmelon peel. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4424-4434.	5.3	54
5	Modification of garlic peel by nitric acid and its application as a novel adsorbent for solid-phase extraction of quinolone antibiotics. <i>Chemical Engineering Journal</i> , 2017, 326, 745-755.	12.7	46
6	Grape pomace as a biosorbent for fluoride removal from groundwater. <i>RSC Advances</i> , 2019, 9, 7767-7776.	3.6	32
7	Preparation of titanium oxycarbide from various titanium raw materials: Part I. Carbothermal reduction. <i>Rare Metals</i> , 2010, 29, 547-551.	7.1	26
8	Removal of heavy metal ions from aqueous solution by chemically modified mangosteen pericarp. <i>Desalination and Water Treatment</i> , 2014, 52, 7108-7116.	1.0	21
9	One-step synthesis of garlic peel derived biochar by concentrated sulfuric acid: Enhanced adsorption capacities for Enrofloxacin and interfacial interaction mechanisms. <i>Chemosphere</i> , 2022, 290, 133263.	8.2	20
10	Selective removal of Cr(VI) from aqueous solution by adsorption on mangosteen peel. <i>Environmental Science and Pollution Research</i> , 2013, 20, 5930-5938.	5.3	19
11	Removal of cadmium from a citrate-bearing solution by floatable micro-sized garlic peel. <i>RSC Advances</i> , 2018, 8, 28284-28292.	3.6	19
12	Removal of fluoride from aqueous solution onto Zr-loaded garlic peel (Zr-GP) particles. <i>Journal of Central South University</i> , 2011, 18, 1448-1453.	3.0	18
13	Experimental and first-principles study of Ti-C-O system: Interplay of thermodynamic and structural properties. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2253-2265.	3.8	17
14	Defluoridation in fixed bed column filled with Zr(IV)-loaded garlic peel. <i>Microchemical Journal</i> , 2019, 145, 476-485.	4.5	17
15	Biosorption of tungstate onto garlic peel loaded with Fe(III), Ce(III), and Ti(IV). <i>Environmental Science and Pollution Research</i> , 2020, 27, 33692-33702.	5.3	14
16	Structural and Thermodynamics Properties of $TiC_{1-x}N_x$ Solid Solutions: X-ray Diffraction and First-Principles Approaches. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1288-1295.	3.8	13
17	Structural and Thermodynamic Properties of $TiC_xN_yO_z$ Solid Solution: Experimental Study and First-Principles Approaches. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4721-4731.	2.2	12
18	Selective recovery of phosphorus from acid leach liquor of iron ore by garlic peel adsorbent. <i>RSC Advances</i> , 2018, 8, 22276-22285.	3.6	12

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19	Preparation of niobium nanoparticles by sodiothermic reduction of Nb <sub>2</sub> O <sub>5</sub> in molten salts. <i>Rare Metals</i> , 2012, 31, 621-626.	7.1	9
20	Efficient removal of cadmium from soil-washing effluents by garlic peel biosorbent. <i>Environmental Science and Pollution Research</i> , 2018, 25, 19001-19011.	5.3	9
21	Efficient Removal of Lead from Washing Effluent of Lead-contaminated Soil with Garlic Peel. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 1020-1027.	2.6	7
22	Pivot roles of noble metal in single-phase TaX <sub>2</sub> ON (0 < X ≤ 0.001) and heterostructured X <sup>1+</sup> TaX <sub>2</sub> â <sup>2+</sup> ON (X =) Tj ETQq0 0 0 rgBT /Overl transfer for hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5394.	10.3	5
23	Facile synthesis of flake-like dihydrate zinc oxalate particles. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 234-240.	4.9	5
24	Precipitation of flaky moolooite and its thermal decomposition. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 976-980.	4.9	4
25	Garlic Peel as Adsorbent for the Removal of Methylene Blue from Aqueous Solution. <i>Applied Mechanics and Materials</i> , 0, 694, 367-371.	0.2	3
26	Characterization of the interior structure of synthetic diamond particles. <i>Journal of Crystal Growth</i> , 2016, 451, 165-169.	1.5	3
27	Synthesis of uniform hexagonal Ag nanoprisms with controlled thickness and tunable surface plasmon bands. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 796-802.	4.9	3
28	Removal of Mn(II) from Aqueous Solution Using Saponified Garlic Peel. <i>Applied Mechanics and Materials</i> , 0, 694, 382-386.	0.2	2
29	Selective recovery of gold from dilute aqua regia leachate of waste printed circuit board by thiol-modified garlic peel. <i>Environmental Science and Pollution Research</i> , 2022, 29, 55990-56003.	5.3	2
30	Biosorption of Pb(II) from aqueous solution using modified wheat straw. , 2011, , .		1
31	Facile synthesis of monodispersed copper oxalate flaky particles in the presence of EDTA. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018, 25, 762-769.	4.9	1
32	Segmented tubular synthesis of monodispersed micro-sized copper oxalate. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 460-466.	4.9	1
33	Synthesis of Nano-Sized Tantalum Nitrides with Various Morphology. , 0, , 37-41.		1
34	Removal of cadmium from aqueous solution by garlic peel. , 2013, , .		0
35	Fast removal of dyes from wastewater by combinatorial treatment by biosorption and visible light photodegradation. , 2013, , .		0