

Changwoo Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6280121/publications.pdf>

Version: 2024-02-01

30
papers

562
citations

759233

12
h-index

642732

23
g-index

30
all docs

30
docs citations

30
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron transport in forward osmosis: Measurements, mechanisms, and comparison with reverse osmosis. <i>Journal of Membrane Science</i> , 2012, 419-420, 42-48.	8.2	80
2	Aqueous Aggregation and Surface Deposition Processes of Engineered Superparamagnetic Iron Oxide Nanoparticles for Environmental Applications. <i>Environmental Science & Technology</i> , 2014, 48, 11892-11900.	10.0	77
3	Surface functionalized manganese ferrite nanocrystals for enhanced uranium sorption and separation in water. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21930-21939.	10.3	58
4	Engineering Nanoscale Iron Oxides for Uranyl Sorption and Separation: Optimization of Particle Core Size and Bilayer Surface Coatings. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13163-13172.	8.0	44
5	Engineered manganese oxide nanocrystals for enhanced uranyl sorption and separation. <i>Environmental Science: Nano</i> , 2015, 2, 500-508.	4.3	43
6	Application of osmotic backwashing in forward osmosis: mechanisms and factors involved. <i>Desalination and Water Treatment</i> , 2012, 43, 314-322.	1.0	36
7	Towards optimizing cobalt based metal oxide nanocrystals for hydrogen generation via NaBH ₄ hydrolysis. <i>Applied Catalysis A: General</i> , 2020, 589, 117303.	4.3	31
8	Engineered superparamagnetic nanomaterials for arsenic(As^{V}) and chromium(Cr^{VI}) sorption and separation: quantifying the role of organic surface coatings. <i>Environmental Science: Nano</i> , 2018, 5, 556-563.	4.3	22
9	Highly stable superparamagnetic iron oxide nanoparticles as functional draw solutes for osmotically driven water transport. <i>Npj Clean Water</i> , 2020, 3, .	8.0	22
10	Effect of seepage velocity on the attachment efficiency of TiO ₂ nanoparticles in porous media. <i>Journal of Hazardous Materials</i> , 2014, 279, 163-168.	12.4	19
11	Engineering Graphene Oxide Laminate Membranes for Enhanced Flux and Boron Treatment with Polyethylenimine (PEI) Polymers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 924-929.	8.0	19
12	Surface-optimized core-shell nanocomposites (Fe ₃ O ₄ @Mn _x Fe _y O ₄) for ultra-high uranium sorption and low-field separation in water. <i>Environmental Science: Nano</i> , 2018, 5, 2252-2256.	4.3	12
13	TiO ₂ nanoparticle sorption to sand in the presence of natural organic matter. <i>Environmental Earth Sciences</i> , 2015, 73, 5585-5591.	2.7	11
14	Organic Functionalized Graphene Oxide Behavior in Water. <i>Nanomaterials</i> , 2020, 10, 1228.	4.1	11
15	Selective and sensitive environmental gas sensors enabled by membrane overlayers. <i>Trends in Chemistry</i> , 2021, 3, 547-560.	8.5	10
16	A Study on High-Current Rectifier Systems With Mitigated Time-Varying Magnetic Field Generation at AC Input and DC Output Busbars. <i>IEEE Transactions on Power Electronics</i> , 2012, 27, 1212-1219.	7.9	9
17	Surface functionalized nanoscale metal oxides for arsenic(As^{V}), chromium(Cr^{VI}), and uranium(U^{VI}) sorption: considering single- and multi-sorbate dynamics. <i>Environmental Science: Nano</i> , 2020, 7, 3805-3813.	4.3	9
18	Photoactive Polyethylenimine-Coated Graphene Oxide Composites for Enhanced Cr(VI) Reduction and Recovery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28027-28035.	8.0	7

#	ARTICLE	IF	CITATIONS
19	Enhanced Exchange-Coupling Effect in Nd-Fe-B/Fe-B Nanocomposite Magnet. Journal of Nanoscience and Nanotechnology, 2010, 10, 186-190.	0.9	6
20	Surface-Engineered Nanomaterials in Water: Understanding Critical Dynamics of Soft Organic Coatings and Relative Aggregation Density. Environmental Science & Technology, 2020, 54, 13548-13555.	10.0	6
21	Final design of the Korean AC/DC converters for the ITER coil power supply system. Fusion Engineering and Design, 2015, 98-99, 1127-1130.	1.9	5
22	Delineating the Relationship between Nanoparticle Attachment Efficiency and Fluid Flow Velocity. Environmental Science & Technology, 2020, 54, 13992-13999.	10.0	5
23	Nanotechnology as a Key Enabler for Effective Environmental Remediation Technologies. , 2020, , 197-207.		5
24	Cetyltrimethylammonium bromide “Oleic acid (CTAB-OA) bilayer coated iron oxide nanocrystals for enhanced chromium (VI) photoreduction via ligand-to-metal charge transfer mechanism. Chemical Engineering Journal, 2022, 431, 133938.	12.7	4
25	Interaction of Silica Nanoparticles with a Flat Silica Surface through Neutron Reflectometry. Environmental Science & Technology, 2012, 46, 4532-4538.	10.0	3
26	Analysis and comparison of high power semiconductor device losses in 5MW PMSG MV wind turbines. , 2014, , .		3
27	Capacity enhancement of an indoor visible light communication system using cooperative transmission. IET Optoelectronics, 2020, 14, 91-98.	3.3	3
28	Study of the Magnetic Phase of Fe-Pt Alloy Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 4666-4669.	0.9	2
29	A study on high current rectifier systems with mitigated time-varying magnetic field generation at ac input and dc output busbars. , 2011, , .		0
30	A Study of Shoreline Changes in Antarctica (Terra Nova Bay) Based on SAR Data. Journal of Coastal Research, 2013, 165, 2101-2106.	0.3	0