Changwoo Kim

List of Publications by Year
in descending order

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	Cetyltrimethylammonium bromide â€“ 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
2	Photoactive Polyethylenimine-Coated Graphene Oxide Composites for Enhanced Cr(VI) Reduction and Recovery. ACS Applied Materials & Interfaces, 2021, 13, 28027-28035.	8.0	7
3	Selective and sensitive environmental gas sensors enabled by membrane overlayers. Trends in Chemistry, 2021, 3, 547-560.	8.5	10
4	Towards optimizing cobalt based metal oxide nanocrystals for hydrogen generation via NaBH4 hydrolysis. Applied Catalysis A: General, 2020, 589, 117303.	4.3	31
5	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
6	Delineating the Relationship between Nanoparticle Attachment Efficiency and Fluid Flow Velocity. Environmental Science & Technology, 2020, 54, 13992-13999.	10.0	5
7	Surface functionalized nanoscale metal oxides for arsenic(<scp>v</scp>), chromium(<scp>vi</scp>), and uranium(<scp>vi</scp>) sorption: considering single- and multi-sorbate dynamics. Environmental Science: Nano, 2020, 7, 3805-3813.	4.3	9
8	Highly stable superparamagnetic iron oxide nanoparticles as functional draw solutes for osmotically driven water transport. Npj Clean Water, 2020, 3, .	8.0	22
9	Organic Functionalized Graphene Oxide Behavior in Water. Nanomaterials, 2020, 10, 1228.	4.1	11
10	Capacity enhancement of an indoor visible light communication system using cooperative transmission. IET Optoelectronics, 2020, 14, 91-98.	3.3	3
11	Nanotechnology as a Key Enabler for Effective Environmental Remediation Technologies. , 2020, , 197-207.		5
12	Engineering Graphene Oxide Laminate Membranes for Enhanced Flux and Boron Treatment with Polyethylenimine (PEI) Polymers. ACS Applied Materials & Interfaces, 2019, 11, 924-929.	8.0	19
13	Engineered superparamagnetic nanomaterials for arsenic(<scp>v</scp>) and chromium(<scp>vi</scp>) sorption and separation: quantifying the role of organic surface coatings. Environmental Science: Nano, 2018, 5, 556-563.	4.3	22
14	Surface-optimized coreâ€“shell nanocomposites (Fe₃O₄@Mn_xFe_yO₄) for ultra-high uranium sorption and low-field separation in water. Environmental Science: Nano, 2018, 5, 2252-2256.	4.3	12
15	Engineering Nanoscale Iron Oxides for Uranyl Sorption and Separation: Optimization of Particle Core Size and Bilayer Surface Coatings. ACS Applied Materials & Interfaces, 2017, 9, 13163-13172.	8.0	44
16	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
17	TiO2 nanoparticle sorption to sand in the presence of natural organic matter. Environmental Earth Sciences, 2015, 73, 5585-5591.	2.7	11
18	Surface functionalized manganese ferrite nanocrystals for enhanced uranium sorption and separation in water. Journal of Materials Chemistry A, 2015, 3, 21930-21939.	10.3	58

#	Article	IF	Citations
19	Engineered manganese oxide nanocrystals for enhanced uranyl sorption and separation. Environmental Science: Nano, 2015, 2, 500-508.	4.3	43
20	Analysis and comparison of high power semiconductor device losses in 5MW PMSG MV wind turbines. , 2014, , .		3
21	Aqueous Aggregation and Surface Deposition Processes of Engineered Superparamagnetic Iron Oxide Nanoparticles for Environmental Applications. Environmental Science & Technology, 2014, 48, 11892-11900.	10.0	77
22	Effect of seepage velocity on the attachment efficiency of TiO2 nanoparticles in porous media. Journal of Hazardous Materials, 2014, 279, 163-168.	12.4	19
23	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
24	Application of osmotic backwashing in forward osmosis: mechanisms and factors involved. Desalination and Water Treatment, 2012, 43, 314-322.	1.0	36
25	Boron transport in forward osmosis: Measurements, mechanisms, and comparison with reverse osmosis. Journal of Membrane Science, 2012, 419-420, 42-48.	8.2	80
26	A Study on High-Current Rectifier Systems With Mitigated Time-Varying Magnetic Field Generation at AC Input and DC Output Busbars. IEEE Transactions on Power Electronics, 2012, 27, 1212-1219.	7.9	9
27	Interaction of Silica Nanoparticles with a Flat Silica Surface through Neutron Reflectometry. Environmental Science & Technology, 2012, 46, 4532-4538.	10.0	3
28	A study on high current rectifier systems with mitigated time-varying magnetic field generation at ac input and dc output busbars. , 2011, , .		0
29	Enhanced Exchange-Coupling Effect in Nd-Fe-B/Fe-B Nanocomposite Magnet. Journal of Nanoscience and Nanotechnology, 2010, 10, 186-190.	0.9	6
30	Study of the Magnetic Phase of Fe-Pt Alloy Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 4666-4669.	0.9	2