

In-Ho Yoon

List of Publications by Year in descending order

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55
papers

1,362
citations

331670

21
h-index

345221

36
g-index

55
all docs

55
docs citations

55
times ranked

1586
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduction and adsorption mechanisms of selenate by zero-valent iron and related iron corrosion. <i>Applied Catalysis B: Environmental</i> , 2011, 104, 185-192.	20.2	135
2	Perchlorate adsorption and desorption on activated carbon and anion exchange resin. <i>Journal of Hazardous Materials</i> , 2009, 164, 87-94.	12.4	111
3	Mechanism for the stabilization/solidification of arsenic-contaminated soils with Portland cement and cement kiln dust. <i>Journal of Environmental Management</i> , 2010, 91, 2322-2328.	7.8	85
4	Effects of pH and dissolved oxygen on Cr(VI) removal in Fe(0)/H ₂ O systems. <i>Journal of Hazardous Materials</i> , 2011, 186, 855-862.	12.4	84
5	Assessment of cement kiln dust (CKD) for stabilization/solidification (S/S) of arsenic contaminated soils. <i>Journal of Hazardous Materials</i> , 2008, 159, 512-518.	12.4	73
6	Qualitative analysis and mapping of heavy metals in an abandoned Au-Ag mine area using NIR spectroscopy. <i>Environmental Geology</i> , 2009, 58, 477-482.	1.2	69
7	Arsenic detoxification potential of aox genes in arsenite-oxidizing bacteria isolated from natural and constructed wetlands in the Republic of Korea. <i>Environmental Geochemistry and Health</i> , 2010, 32, 95-105.	3.4	60
8	Heavy metal and arsenic accumulating fern species as potential ecological indicators in As-contaminated abandoned mines. <i>Ecological Indicators</i> , 2009, 9, 1275-1279.	6.3	49
9	Synergy between Zeolite Framework and Encapsulated Sulfur for Enhanced Ion-Exchange Selectivity to Radioactive Cesium. <i>Chemistry of Materials</i> , 2018, 30, 5777-5785.	6.7	43
10	A Novel Combination of Anaerobic Bioleaching and Electrokinetics for Arsenic Removal from Mine Tailing Soil. <i>Environmental Science & Technology</i> , 2009, 43, 9354-9360.	10.0	40
11	Stabilization of arsenic-contaminated mine tailings using natural and calcined oyster shells. <i>Environmental Earth Sciences</i> , 2011, 64, 597-605.	2.7	39
12	Hollow flower-like titanium ferrocyanide structure for the highly efficient removal of radioactive cesium from water. <i>Chemical Engineering Journal</i> , 2020, 392, 123713.	12.7	37
13	Selenate removal by zero-valent iron in oxic condition: the role of Fe(II) and selenate removal mechanism. <i>Environmental Science and Pollution Research</i> , 2016, 23, 1081-1090.	5.3	33
14	Arsenic biotransformation potential of microbial arsH responses in the biogeochemical cycling of arsenic-contaminated groundwater. <i>Chemosphere</i> , 2018, 191, 729-737.	8.2	33
15	Effect of surface modification of silica nanoparticles by silane coupling agent on decontamination foam stability. <i>Annals of Nuclear Energy</i> , 2018, 114, 11-18.	1.8	29
16	Selective separation of Cs-contaminated clay from soil using polyethylenimine-coated magnetic nanoparticles. <i>Science of the Total Environment</i> , 2020, 706, 136020.	8.0	29
17	Poly(vinyl alcohol)-borax complex-based spray coating for the decontamination of radioactive Cs from wide-area surfaces. <i>Chemical Engineering Journal</i> , 2020, 402, 126299.	12.7	27
18	Isolation and ars detoxification of arsenite-oxidizing bacteria from abandoned arsenic-contaminated mines. <i>Journal of Microbiology and Biotechnology</i> , 2007, 17, 812-21.	2.1	27

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19	Sulfur-modified chabazite as a low-cost ion exchanger for the highly selective and simultaneous removal of cesium and strontium. <i>Applied Surface Science</i> , 2021, 536, 147776.	6.1	26
20	Scale-up and optimization of a two-stage molten salt oxidation reactor system for the treatment of cation exchange resins. <i>Chemical Engineering Research and Design</i> , 2013, 91, 703-712.	5.6	24
21	Arsenite oxidation by <i>Alcaligenes</i> sp. strain RS-19 isolated from arsenic-contaminated mines in the Republic of Korea. <i>Environmental Geochemistry and Health</i> , 2009, 31, 109-117.	3.4	23
22	Modeling, rate-limiting step investigation, and enhancement of the direct bio-regeneration of perchlorate laden anion-exchange resin. <i>Water Research</i> , 2009, 43, 127-136.	11.3	22
23	Kinetic study for phenol degradation by ZVI-assisted Fenton reaction and related iron corrosion investigated by X-ray absorption spectroscopy. <i>Chemosphere</i> , 2016, 145, 409-415.	8.2	20
24	Polyvinyl alcohol-borate hydrogel containing Prussian blue for surface decontamination. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 316, 955-962.	1.5	19
25	Effect of silica nanoparticles on the stability of decontamination foam and their application for oxide dissolution of corroded specimens. <i>Annals of Nuclear Energy</i> , 2014, 73, 168-174.	1.8	18
26	Stabilizing decontamination foam using surface-modified silica nanoparticles containing chemical reagent: foam stability, structures, and dispersion properties. <i>RSC Advances</i> , 2021, 11, 1841-1849.	3.6	16
27	Sorption behavior of cesium on silt and clay soil fractions. <i>Journal of Environmental Radioactivity</i> , 2021, 233, 106592.	1.7	16
28	Removal of radioactive cesium from an aqueous solution via bioaccumulation by microalgae and magnetic separation. <i>Scientific Reports</i> , 2019, 9, 10149.	3.3	15
29	A highly efficient decontamination foam stabilized by well-dispersed mesoporous silica nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 560, 164-170.	4.7	15
30	Novel two-step process for remediation of Cs-contaminated soil assisted by magnetic composites. <i>Chemical Engineering Journal</i> , 2021, 424, 130554.	12.7	12
31	Colloid mobilization and heavy metal transport in the sampling of soil solution from Duckum soil in South Korea. <i>Environmental Geochemistry and Health</i> , 2019, 41, 469-480.	3.4	11
32	Hydrothermal Desorption of Cs with Oxalic Acid from Hydrobiotite and Wastewater Treatment by Chemical Precipitation. <i>Energies</i> , 2020, 13, 3284.	3.1	11
33	Highly enhanced foams for stability and decontamination efficiency with a fluorosurfactant, silica nanoparticles, and Ce(IV) in radiological application. <i>Environmental Technology and Innovation</i> , 2020, 18, 100744.	6.1	11
34	Application of polyethylenimine-coated magnetic nanocomposites for the selective separation of Cs-enriched clay particles from radioactive soil. <i>RSC Advances</i> , 2020, 10, 21822-21829.	3.6	10
35	Factors affecting metal exchange between sediment and water in an estuarine reservoir: A spatial and seasonal observation. <i>Journal of Environmental Monitoring</i> , 2009, 11, 2058.	2.1	9
36	Volatility and leachability of heavy metals and radionuclides in thermally treated HEPA filter media generated from nuclear facilities. <i>Journal of Hazardous Materials</i> , 2012, 219-220, 240-246.	12.4	9

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37	The effect of SiO ₂ nanoparticles in Li ₃ V ₂ (PO ₄) ₃ /graphene as a cathode material for Li-ion batteries. <i>Materials Letters</i> , 2015, 160, 206-209.	2.6	9
38	Structure and stability of decontamination foam in concentrated nitric acid and silica nanoparticles by image analysis. <i>Annals of Nuclear Energy</i> , 2016, 95, 102-108.	1.8	9
39	Cs desorption behavior during hydrothermal treatment of illite with oxalic acid. <i>Environmental Science and Pollution Research</i> , 2020, 27, 35580-35590.	5.3	9
40	Desorption of cesium from hydrobiotite by hydrogen peroxide with divalent cations. <i>Journal of Hazardous Materials</i> , 2020, 390, 121381.	12.4	8
41	Enhanced selective separation of fine particles from Cs-contaminated soil using magnetic nanoparticles. <i>Journal of Soils and Sediments</i> , 2021, 21, 346-354.	3.0	6
42	Monolayer Hexagonal Boron Nitride Nanosheets as Proton-Conductive Gas Barriers for Polymer Electrolyte Membrane Water Electrolysis. <i>ACS Applied Nano Materials</i> , 2021, 4, 9104-9112.	5.0	6
43	Morphological Control of Mesoporous Silica Nanoparticles and Their Application for Foam Stability. <i>Asian Journal of Chemistry</i> , 2014, 26, 1401-1404.	0.3	5
44	Characteristic and remediation of radioactive soil in nuclear facility sites: a critical review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 67990-68005.	5.3	5
45	Decontamination Foam Containing Silica Nanoparticles of Various Structures. <i>Asian Journal of Chemistry</i> , 2014, 26, 1405-1407.	0.3	4
46	Preparation of Low-Cost Adsorbents from Paper Industry Wastes and their Pb(II) Removal Behavior in Water. <i>Separation Science and Technology</i> , 2014, 49, 2540-2547.	2.5	3
47	Stability of Foaming Agent for Foam Decontamination. <i>Asian Journal of Chemistry</i> , 2015, 27, 4254-4256.	0.3	3
48	Adsorption of Perfluorocarbon Surfactant on Activated Carbon Adsorbents. <i>Asian Journal of Chemistry</i> , 2013, 25, 5602-5604.	0.3	2
49	Considerations on the preliminary safety assessment for operation of the melting facility for radioactive metal waste from nuclear facilities. <i>Annals of Nuclear Energy</i> , 2022, 175, 109213.	1.8	2
50	Cesium Removal from Nonexpandable Illite Clay by Chloride Salt Treatment. <i>ACS Omega</i> , 2021, 6, 17923-17930.	3.5	1
51	Synthesis and Application of Tricaprylmethyl ammoniumthiosalicylate as Extracting Agent for Actinide Ions. <i>Asian Journal of Chemistry</i> , 2015, 27, 4263-4265.	0.3	0
52	Sorption of cobalt by amine-functionalized silica nanoparticles for foam decontamination of nuclear facilities. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 310, 841-847.	1.5	0
53	Environmental applications of magnetic nanoparticles. , 2021, , 529-545.		0
54	Hydrogen isotope exchange behavior of protonated lithium metal compounds. <i>Nuclear Engineering and Technology</i> , 2021, , .	2.3	0

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55	Improved flotation separation of fine particles using hydrophobic silica nanoparticles as surface modifiers. Journal of Environmental Chemical Engineering, 2021, 9, 106767.	6.7	0