Jae-Woo Park

List of Publications by Year
in descending order

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90 papers	3,309 citations	201575 27 h-index	155592 55 g-index
90 all docs	90 docs citations	90 times ranked	4629 citing authors

#	Article	IF	Citations
1	Hydrolytic degradation of polylactic acid (PLA) and its composites. Renewable and Sustainable Energy Reviews, 2017, 79, 1346-1352.	8.2	555
2	Photocatalysts for degradation of dyes in industrial effluents: Opportunities and challenges. Nano Research, 2019, 12, 955-972.	5.8	430
3	A comparative review between amines and ammonia as sorptive media for post-combustion CO2 capture. Applied Energy, 2015, 148, 10-22.	5.1	172
4	Immobilization of lead in contaminated firing range soil using biochar. Environmental Science and Pollution Research, 2013, 20, 8464-8471.	2.7	122
5	Graphene and its nanocomposites as a platform for environmental applications. Chemical Engineering Journal, 2017, 315, 210-232.	6.6	108
6	Carboxymethyl chitosan-modified magnetic-cored dendrimer as an amphoteric adsorbent. Journal of Hazardous Materials, 2016, 317, 608-616.	6.5	100
7	Use of waste iron metal for removal of Cr(VI) from water. Chemosphere, 2003, 53, 479-485.	4.2	98
8	Synthesis and characterization of a heterojunction rGO/ZrO2/Ag3PO4 nanocomposite for degradation of organic contaminants. Journal of Hazardous Materials, 2018, 358, 416-426.	6.5	86
9	Partitioning of three nonionic organic compounds between adsorbed surfactants, micelles, and water. Environmental Science & Technology, 1993, 27, 2559-2565.	4.6	85
10	Solubilization of PAH mixtures by three different anionic surfactants. Environmental Pollution, 2002, 118, 307-313.	3.7	85
11	Near-infrared to visible photon transition by upconverting NaYF4: Yb3+, Gd3+, Tm3+@Bi2WO6 core@shell composite for bisphenol A degradation in solar light. Applied Catalysis B: Environmental, 2019, 243, 438-447.	10.8	81
12	Nanomaterials-based treatment options for chromium in aqueous environments. Environment International, 2019, 130, 104748.	4.8	80
13	Simultaneous sorption of lead and chlorobenzene by organobentonite. Chemosphere, 2002, 49, 1309-1315.	4.2	78
14	Waste green sands as reactive media for the removal of zinc from water. Chemosphere, 2004, 56, 571-581.	4.2	51
15	Nano zero-valent iron impregnated on titanium dioxide nanotube array film for both oxidation andÂreduction of methyl orange. Water Research, 2013, 47, 1858-1866.	5.3	47
16	Effect of molecular structures on the solubility enhancement of hydrophobic organic compounds by environmental amphiphiles. Environmental Toxicology and Chemistry, 2002, 21, 999-1003.	2.2	44
17	Sorption and reduction of tetrachloroethylene with zero valent iron and amphiphilic molecules. Chemosphere, 2006, 64, 1047-1052.	4.2	40
18	Regeneration of iron for trichloroethylene reduction by Shewanella alga BrY. Chemosphere, 2007, 68, 1129-1134.	4.2	40

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19	Graphene quantum dots on stainless-steel nanotubes for enhanced photocatalytic degradation of phenanthrene under visible light. Chemosphere, 2020, 246, 125761.	4.2	40
20	Determination of a risk management primer at petroleum-contaminated sites: Developing new human health risk assessment strategy. Journal of Hazardous Materials, 2011, 185, 1374-1380.	6.5	39
21	Stabilization of lead and copper contaminated firing range soil using calcined oyster shells and fly ash. Environmental Geochemistry and Health, 2013, 35, 705-714.	1.8	38
22	Stability and reusability of amine-functionalized magnetic-cored dendrimer for heavy metal adsorption. Journal of Materials Science, 2017, 52, 843-857.	1.7	36
23	A novel total petroleum hydrocarbon fractionation strategy for human health risk assessment for petroleum hydrocarbon-contaminated site management. Journal of Hazardous Materials, 2010, 179, 1128-1135.	6.5	35
24	Dissolved organic matter effects on the performance of a barrier to polycyclic aromatic hydrocarbon transport by groundwater. Journal of Contaminant Hydrology, 2003, 60, 307-326.	1.6	34
25	Nano TiO2-functionalized magnetic-cored dendrimer as a photocatalyst. Applied Catalysis B: Environmental, 2014, 147, 973-979.	10.8	34
26	Selective transport and separation of chargeâ€“carriers by an electron transport layer in NiCo2S4/CdO@CC for excellent water splitting. Applied Catalysis B: Environmental, 2020, 265, 118564.	10.8	31
27	Effect of generation growth on photocatalytic activity of nano TiO 2 -magnetic cored dendrimers. Journal of Industrial and Engineering Chemistry, 2016, 44, 52-59.	2.9	30
28	A wind-driven reverse osmosis system for aquaculture wastewater reuse and nutrient recovery. Desalination, 2007, 202, 24-30.	4.0	29
29	Iron and organo-bentonite for the reduction and sorption of trichloroethylene. Chemosphere, 2005, 58, 103-108.	4.2	27
30	Competitive adsorption of heavy metals and uranium on soil constituents and microorganism. Geosciences Journal, 2005, 9, 53-61.	0.6	26
31	Binding of dialkylated disulfonated diphenyl oxide surfactant onto alumina in the aqueous phase. Chemosphere, 1999, 38, 1-12.	4.2	25
32	Calibration of LEACHN model using LH-OAT sensitivity analysis. Nutrient Cycling in Agroecosystems, 2010, 87, 261-275.	1.1	25
33	Aerobic TCE degradation by encapsulated toluene-oxidizing bacteria, Pseudomonas putida and Bacillus spp.. Water Science and Technology, 2010, 62, 1991-1997.	1.2	25
34	Organobentonite for Sorption and Degradation of Phenol in the Presence of Heavy Metals. Water, Air, and Soil Pollution, 2004, 154, 225-237.	1.1	24
35	Iron oxide nanotube layer fabricated with electrostatic anodization for heterogeneous Fenton like reaction. Journal of Hazardous Materials, 2014, 273, 1-6.	6.5	24
36	Simulating alveoli-inspired air pockets in a ZnO/NiMoO4/C3N4 catalyst filter for toluene entrapment and photodecomposition. Journal of Hazardous Materials, 2021, 409, 124497.	6.5	23

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37	Combined Effect of Natural Organic Matter and Surfactants on the Apparent Solubility of Polycyclic Aromatic Hydrocarbons. Journal of Environmental Quality, 2002, 31, 275-280.	1.0	21
38	Hematite/Graphitic Carbon Nitride Nanofilm for Fenton and Photocatalytic Oxidation of Methylene Blue. Sustainability, 2020, 12, 2866.	1.6	21
39	Phenanthrene Removal from Soil Slurries with Surfactant-Treated Oxides. Journal of Environmental Engineering, ASCE, 1995, 121, 430-437.	0.7	20
40	EFFECT OF COEXISTING COMPOUNDS ON THE SORPTION AND REDUCTION OF TRICHLOROETHYLENE WITH IRON. Environmental Toxicology and Chemistry, 2005, 24, 11.	2.2	20
41	IRON MONOSULFIDE AS A SCAVENGER FOR DISSOLVED HEXAVALENT CHROMIUM AND CADMIUM. Environmental Technology (United Kingdom), 2008, 29, 975-983.	1.2	19
42	Radioactive removal by adsorption on Yesan clay and zeolite. Environmental Earth Sciences, 2013, 68, 2393-2398.	1.3	19
43	Oil Spill Remediation Using Magnetic Separation. Journal of Environmental Engineering, ASCE, 2001, 127, 443-449.	0.7	18
44	Assessment of soil washing for simultaneous removal of heavy metals and low-level petroleum hydrocarbons using various washing solutions. Environmental Earth Sciences, 2016, 75, 1.	1.3	18
45	TiO2/CdS nanocomposite stabilized on a magnetic-cored dendrimer for enhanced photocatalytic activity and reusability. Journal of Colloid and Interface Science, 2019, 555, 801-809.	5.0	18
46	Addressing the OER/HER imbalance by a redox transition-induced two-way electron injection in a bifunctional nâ€“pâ€“n electrode for excellent water splitting. Journal of Materials Chemistry A, 2020, 8, 13218-13230.	5.2	17
47	Decontamination of radioactive cesium-contaminated soil/concrete with washing and washing supernatantâ€“ critical review. Chemosphere, 2021, 280, 130419.	4.2	16
48	Partitioning of naphthalene to gemini surfactant-treated alumina. Chemosphere, 2000, 41, 787-792.	4.2	15
49	Combined Effect of Natural Organic Matter and Surfactants on the Apparent Solubility of Polycyclic Aromatic Hydrocarbons. Journal of Environmental Quality, 2002, 31, 275.	1.0	13
50	Sorption of Chlorobiphenyls in Sedimentâ€”Water Systems Containing Nonionic Surfactants. Journal of Environmental Quality, 1999, 28, 945-952.	1.0	12
51	Analogous crystal orientation for immobilizing rGO/ZrO2/Ag3PO4 nanocomposite on a fluorineâ€“doped tin oxide substrate. Journal of Hazardous Materials, 2019, 369, 375-383.	6.5	12
52	The role of terminal groups in dendrimer systems for the treatment of organic contaminants in aqueous environments. Journal of Cleaner Production, 2020, 250, 119494.	4.6	12
53	A micelle inhibition model for the bioavailability of polycyclic aromatic hydrocarbons in aquatic systems. Environmental Toxicology and Chemistry, 2002, 21, 2737-2741.	2.2	11
54	Zero Valent Iron and Clay Mixtures for Removal of Trichloroethylene, Chromium(VI), and Nitrate. Environmental Technology (United Kingdom), 2006, 27, 299-306.	1.2	11

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55	Lorentz force promoted charge separation in a hierarchical, bandgap tuned, and charge reversible NixMn(0.5â^'x)O photocatalyst for sulfamethoxazole degradation. Applied Catalysis B: Environmental, 2022, 300, 120724.	10.8	11
56	Reduction of trichloroethylene and nitrate by zero-valent iron with peat. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 144-153.	0.9	10
57	Numerical investigation for the isolation effect of in situ capping for heavy metals in contaminated sediments. KSCE Journal of Civil Engineering, 2013, 17, 1275-1283.	0.9	10
58	Leachate modeling for a municipal solid waste landfill for upper expansion. KSCE Journal of Civil Engineering, 2010, 14, 473-480.	0.9	9
59	Adsorption of NH4 +-N and E. coli onto Mg2+-modified zeolites. Environmental Earth Sciences, 2016, 75, 1.	1.3	9
60	Titanium-doped stainless steel nanotubes for the photocatalytic degradation of an organic compound. Catalysis Today, 2020, 340, 268-276.	2.2	9
61	Adsorption of cadmium(II) from aqueous solutions by thiol-functionalized activated carbon. Water Science and Technology: Water Supply, 2011, 11, 61-66.	1.0	8
62	System development and testing of wind-powered reverse osmosis desalination for remote Pacific islands. Water Science and Technology: Water Supply, 2002, 2, 123-129.	1.0	8
63	Computational calculation identified optimal binding sites in nano-sized magnetic-cored dendrimer. Chemosphere, 2018, 210, 287-295.	4.2	7
64	Black Shale as a Sorbent for Trichloroethylene and CR(VI). Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	1.2	6
65	Effect of phosphate and sediment bacteria on trichloroethylene dechlorination with zero valent iron. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2009, 44, 362-369.	0.9	6
66	TCE reduction modeling in soil column: Effect of zero-valent iron, ferrous iron, and iron-reducing bacteria. Desalination and Water Treatment, 2009, 4, 229-232.	1.0	5
67	Photocatalytic performance of TiO2 films produced with combination of oxygen-plasma and rapid thermal annealing. Thin Solid Films, 2011, 520, 193-198.	0.8	5
68	Comparison of As, Ni, Zn, Cd, and Pb removals using treatment agents. Environmental Technology (United Kingdom), 2012, 33, 445-454.	1.2	5
69	Environmental impact assessment using a GSR tool for a landfarming case in South Korea. Environmental Monitoring and Assessment, 2016, 188, 231.	1.3	4
70	A simplified sampling procedure for the estimation of methane emission in rice fields. Environmental Monitoring and Assessment, 2017, 189, 468.	1.3	4
71	Photodegradation of benzene and phenanthrene in aqueous solution using pulsed ultraviolet light. KSCE Journal of Civil Engineering, 2017, 21, 1607-1613.	0.9	4
72	Agglomeration of 10â€‰nm amine-functionalized nano-magnetite does not hinder its efficiency as an environmental adsorbent. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 648-656.	0.9	4

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73	Optimal generation number in magnetic-cored dendrimers as Pb(II) and Cd(II) adsorbents. Environmental Technology (United Kingdom), 2020, 41, 3412-3419.	1.2	4
74	Sorption and Biodegradation of Vapor-Phase Organic Compounds with Wastewater Sludge and Food Waste Compost. Journal of the Air and Waste Management Association, 2001, 51, 1237-1244.	0.9	3
75	Reactive Dechlorination of PCE Using Zero Valent Iron Plus Surfactants. ACS Symposium Series, 2002, , 141-153.	0.5	3
76	Recovery of iron reactivity for removal of Cr(VI) using iron-reducing consortium. KSCE Journal of Civil Engineering, 2006, 10, 175-180.	0.9	3
77	Impacts of environmental conditions on the sorption of volatile organic compounds onto tire powder. Journal of Hazardous Materials, 2008, 153, 157-163.	6.5	3
78	Fabrication of zero valent iron (ZVI) nanotube film via potentiostatic anodization and electroreduction. Water Science and Technology, 2009, 59, 2503-2507.	1.2	3
79	Transformation impacts of dissolved and solid phase Fe(II) on trichloroethylene (TCE) reduction in an iron-reducing bacteria (IRB) mixed column system: A mathematical model. Water Research, 2012, 46, 6391-6398.	5.3	3
80	Loss assessment of building and contents damage from the potential earthquake risk in Seoul, South Korea. Natural Hazards and Earth System Sciences, 2019, 19, 985-997.	1.5	3
81	Effects of carbonation on carbon dioxide capture and the mechanical properties of concrete with amine sorbents. Advances in Cement Research, 2020, 32, 502-509.	0.7	3
82	Contribution of Different Quantities of Leaf Litter to Nitrous Oxide Emission from a Temperate Deciduous Forest. KSCE Journal of Civil Engineering, 2021, 25, 1163-1175.	0.9	3
83	UV Spectroscopic Monitoring of Vaporized Monoaromatic Hydrocarbons from Petroleum-Contaminated Soils. Environmental Monitoring and Assessment, 2006, 120, 527-536.	1.3	2
84	Numerical investigation of the gel barrier formation with vertical injection pipe. Environmental Geology, 2007, 53, 635-642.	1.2	2
85	Enhanced Heavy Metal Sorption by Surface-Oxidized Activated Carbon Does Not Affect the PAH Sequestration in Sediments. Water, Air, and Soil Pollution, 2012, 223, 3195-3206.	1.1	2
86	Eisenia fetida growth inhibition by amended activated carbon causes less bioaccumulation of heavy metals. Journal of Soils and Sediments, 2014, 14, 1766-1773.	1.5	2
87	An Environmental Impact Assessment Model with Monetary Valuation for Remediation in South Korea. KSCE Journal of Civil Engineering, 2019, 23, 4168-4173.	0.9	2
88	WASTE LEAVES AS REACTIVE MEDIA IN PERMEABLE REACTIVE BARRIERS FOR CR(VI) REMOVAL. Environmental Engineering Research, 2005, 10, 1-6.	1.5	2
89	Quantitative Comparison of the Photocatalytic Efficiency of TiO2Nanotube Film and TiO2Powder. Journal of Soil and Groundwater Environment, 2016, 21, 8-14.	0.1	2
90	Zero-valent Iron and Organo-clay for Chromate Removal in the Presence of Trichloroethylene. , 2006, , 35-46.		0