Jeehyeong Khim

List of Publications by Year
in descending order

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109	3,177	117453	174990
papers	citations	34 h-index	52 g-index

110	110	110	3484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrate reduction by zero-valent iron under different pH regimes. Applied Geochemistry, 2004, 19, 335-342.	1.4	211
2	Synergistic effect of sono-photocatalytic process for the degradation of organic pollutants using CuO-TiO2/rGO. Ultrasonics Sonochemistry, 2019, 50, 218-223.	3.8	147
3	A review on heterogeneous sonocatalyst for treatment of organic pollutants in aqueous phase based on catalytic mechanism. Ultrasonics Sonochemistry, 2018, 45, 29-49.	3.8	126
4	Physiochemical properties of digested sewage sludge with ultrasonic treatment. Ultrasonics Sonochemistry, 2007, 14, 281-285.	3.8	110
5	Hydrodynamic cavitation and activated persulfate oxidation for degradation of bisphenol A: Kinetics and mechanism. Chemical Engineering Journal, 2018, 338, 323-332.	6.6	90
6	Activation of peroxodisulfate and peroxymonosulfate by ultrasound with different frequencies: Impact on ibuprofen removal efficient, cost estimation and energy analysis. Chemical Engineering Journal, 2021, 413, 127487.	6.6	90
7	Geometric Optimization of Sonoreactors for the Enhancement of Sonochemical Activity. Journal of Physical Chemistry C, 2011, 115, 4096-4103.	1.5	84
8	Investigation of acoustic cavitation energy in a large-scale sonoreactor. Ultrasonics Sonochemistry, 2009, 16, 552-556.	3.8	80
9	Occurrence of micropollutants in four major rivers in Korea. Science of the Total Environment, 2014, 491-492, 138-147.	3.9	74
10	Application of solid-phase extraction coupled with freezing-lipid filtration clean-up for the determination of endocrine-disrupting phenols in fish. Analytica Chimica Acta, 2007, 603, 67-75.	2.6	70
11	Uniform coreâ€“shell structured magnetic mesoporous TiO₂ nanospheres as a highly efficient and stable sonocatalyst for the degradation of bisphenol-A. Journal of Materials Chemistry A, 2015, 3, 6492-6500.	5.2	70
12	Sonolysis of chlorinated compounds in aqueous solution. Ultrasonics Sonochemistry, 2007, 14, 93-98.	3.8	69
13	Frequency effects on the sonochemical degradation of chlorinated compounds. Ultrasonics Sonochemistry, 2011, 18, 460-465.	3.8	68
14	A review on sonoelectrochemical technology as an upcoming alternative for pollutant degradation. Ultrasonics Sonochemistry, 2015, 27, 210-234.	3.8	66
15	Application of Box-Behnken design with response surface methodology for modeling and optimizing ultrasonic oxidation of arsenite with H2O2. Open Chemistry, 2014, 12, 164-172.	1.0	64
16	Effect of water content on transient nonequilibrium NAPLâ€“gas mass transfer during soil vapor extraction. Journal of Contaminant Hydrology, 2002, 54, 1-18.	1.6	63
17	Potential application of sludge produced from coal mine drainage treatment for removing Zn(II) in an aqueous phase. Environmental Geochemistry and Health, 2011, 33, 103-112.	1.8	57
18	Comparison of Ultrasonic and Conventional Mechanical Soil-Washing Processes for Diesel-Contaminated Sand. Industrial & Engineering Chemistry Research, 2011, 50, 2400-2407.	1.8	53

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19	Ultrasonically enhanced electrochemical oxidation of ibuprofen. Ultrasonics Sonochemistry, 2015, 22, 429-436.	3.8	52
20	Acoustic emission spectra and sonochemical activity in a 36 kHz sonoreactor. Ultrasonics Sonochemistry, 2012, 19, 16-21.	3.8	45
21	Significant diethyl phthalate (DEP) degradation by combined advanced oxidation process in aqueous solution. Journal of Environmental Management, 2012, 101, 104-110.	3.8	45
22	Photocatalyst separation from aqueous dispersion using graphene oxide/TiO2 nanocomposites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 433, 230-239.	2.3	45
23	Comparison of calorimetric energy and cavitation energy for the removal of bisphenol-A: The effects of frequency and liquid height. Chemical Engineering Journal, 2012, 183, 39-45.	6.6	44
24	Comparison of energy consumptions between ultrasonic, mechanical, and combined soil washing processes. Ultrasonics Sonochemistry, 2012, 19, 395-398.	3.8	42
25	Sonophotolytic diethyl phthalate (DEP) degradation with UVC or VUV irradiation. Ultrasonics Sonochemistry, 2012, 19, 1094-1098.	3.8	41
26	A continuous pilot-scale system using coal-mine drainage sludge to treat acid mine drainage contaminated with high concentrations of Pb, Zn, and other heavy metals. Journal of Hazardous Materials, 2012, 215-216, 122-128.	6.5	41
27	Enhanced sonocatalytic treatment of ibuprofen by mechanical mixing and reusable magnetic core titanium dioxide. Chemical Engineering Journal, 2015, 264, 522-530.	6.6	41
28	Modeling metal-sediment interaction processes: Parameter sensitivity assessment and uncertainty analysis. Environmental Modelling and Software, 2016, 80, 159-174.	1.9	41
29	The effects of hydrogen peroxide on the sonochemical degradation of phenol and bisphenol A. Ultrasonics Sonochemistry, 2014, 21, 1976-1981.	3.8	40
30	Stabilization of Pb2+ and Cu2+ contaminated firing range soil using calcined oyster shells and waste cow bones. Chemosphere, 2013, 91, 1349-1354.	4.2	37
31	Ordered mesoporous C/TiO₂ composites as advanced sonocatalysts. Journal of Materials Chemistry A, 2014, 2, 16452-16458.	5.2	37
32	Development of modified mesoporous carbon (CMK-3) for improved adsorption of bisphenol-A. Chemosphere, 2020, 238, 124559.	4.2	37
33	Attenuation of UV Light in Large-Scale Sonophotocatalytic Reactors: The Effects of Ultrasound Irradiation and TiO₂ Concentration. Industrial & Engineering Chemistry Research, 2012, 51, 232-239.	1.8	36
34	Evaluation of stabilizing materials for immobilization of toxic heavy metals in contaminated agricultural soils in China. Journal of Cleaner Production, 2018, 193, 748-758.	4.6	36
35	Effect of Ultrasound on Surfactant-Aided Soil Washing. Japanese Journal of Applied Physics, 2007, 46, 4775.	0.8	35
36	Hybrid reactor based on hydrodynamic cavitation, ozonation, and persulfate oxidation for oxalic acid decomposition during rare-earth extraction processes. Ultrasonics Sonochemistry, 2019, 52, 326-335.	3.8	34

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37	Degradation of polychlorinated dibenzo-p-dioxins and dibenzofurans in real-field soil by an integrated visible-light photocatalysis and solvent migration system with p-n heterojunction BiVO4/Bi2O3. Journal of Hazardous Materials, 2018, 344, 1116-1125.	6.5	33
38	BiVO 4 /Bi 2 O 3 heterojunction deposited on graphene for an enhanced visible-light photocatalytic activity. Journal of Alloys and Compounds, 2017, 706, 7-15.	2.8	32
39	Development and application of Fe3O4â€“Pd nanospheres as catalyst for electrochemical-heterogeneous Fenton process. Chemical Engineering Journal, 2016, 284, 1165-1173.	6.6	31
40	Degradation of triclosan in the combined reaction of Fe²⁺ and UVâ€: Comparison with the Fenton and photolytic reactions. Environmental Progress and Sustainable Energy, 2010, 29, 415-420.	1.3	29
41	Synergistic sonoelectrochemical removal of substituted phenols: Implications of ultrasonic parameters and physicochemical properties. Ultrasonics Sonochemistry, 2015, 24, 172-177.	3.8	29
42	Addition of Chlorinated Compounds in the Sonochemical Degradation of 2-Chlorophenol. Japanese Journal of Applied Physics, 2008, 47, 4123-4126.	0.8	25
43	Enhancement in mineralization of a number of natural refractory organic compounds by the combined process of sonolysis and ozonolysis (US/O3). Ultrasonics Sonochemistry, 2011, 18, 773-780.	3.8	25
44	Peat moss-derived biochar for sonocatalytic applications. Ultrasonics Sonochemistry, 2018, 42, 26-30.	3.8	25
45	Kinetic and thermodynamic studies of the adsorption of heavy metals on to a new adsorbent: coal mine drainage sludge. Environmental Technology (United Kingdom), 2010, 31, 1203-1211.	1.2	23
46	Kinetic and mechanism studies of the adsorption of lead onto waste cow bone powder (WCBP) surfaces. Environmental Geochemistry and Health, 2011, 33, 81-89.	1.8	21
47	Magnetic Pd@Fe3O4 composite nanostructure as recoverable catalyst for sonoelectrohybrid degradation of Ibuprofen. Ultrasonics Sonochemistry, 2017, 34, 262-272.	3.8	21
48	Passive treatment of arsenic and heavy metals contaminated circumneutral mine drainage using granular polyurethane impregnated by coal mine drainage sludge. Journal of Cleaner Production, 2018, 186, 282-292.	4.6	21
49	Enhancement of sonochemical oxidation reactions using air sparging in a 36â€¯kHz sonoreactor. Ultrasonics Sonochemistry, 2019, 51, 412-418.	3.8	21
50	Development of new cleanup method of polychlorinated dibenzo-p-dioxins/dibenzofurans in fish by freezing-lipid filtration. Analytica Chimica Acta, 2006, 576, 31-36.	2.6	20
51	Synthesis, characterization and sonocatalytic applications of nano-structured carbon based TiO2 catalysts. Ultrasonics Sonochemistry, 2018, 43, 193-200.	3.8	20
52	Peat moss-derived biochars as effective sorbents for VOCsâ€™ removal in groundwater. Environmental Geochemistry and Health, 2019, 41, 1637-1646.	1.8	19
53	Improving sono-activated persulfate oxidation using mechanical mixing in a 35-kHz ultrasonic reactor: Persulfate activation mechanism and its application. Ultrasonics Sonochemistry, 2021, 72, 105412.	3.8	19
54	Analysis of the Ultrasonic Cavitation Energy in a Pilot-Scale Sonoreactor. Japanese Journal of Applied Physics, 2008, 47, 4119.	0.8	18

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55	Preparation and characterization of magnetic-core titanium dioxide: Implications for photocatalytic removal of ibuprofen. Journal of Molecular Catalysis A, 2014, 390, 178-186.	4.8	18
56	Facile synthesis of uniform yolkâ€“shell structured magnetic mesoporous silica as an advanced photo-Fenton-like catalyst for degrading rhodamine B. RSC Advances, 2015, 5, 96201-96204.	1.7	18
57	Application of pea-like yolkâ€“shell structured Fe₃O₄@TiO₂ nanosheets for photocatalytic and photo-Fenton oxidation of bisphenol-A. RSC Advances, 2019, 9, 22153-22160.	1.7	18
58	Effect of Annealing Environments on Self-Organized TiO₂ Nanotubes for Efficient Photocatalytic Applications. Journal of Nanoscience and Nanotechnology, 2012, 12, 8908-8912.	0.9	17
59	Application of persulfate with hydrodynamic cavitation and ferrous in the decomposition of pentachlorophenol. Ultrasonics Sonochemistry, 2020, 66, 105106.	3.8	17
60	Reaction of activated carbon zerovalent iron with pentachlorophenol under anaerobic conditions. Journal of Cleaner Production, 2021, 297, 126748.	4.6	17
61	The physico-chemical properties and leaching behaviors of phosphatic clay for immobilizing heavy metals. Chemosphere, 2008, 70, 1141-1145.	4.2	15
62	A novel sequential process for remediating rare-earth wastewater. Chemosphere, 2016, 144, 2081-2090.	4.2	15
63	Significant enhancement of bromate removal in drinking water: Implications for the mechanism of sonocatalytic reduction. Chemical Engineering Journal, 2017, 317, 404-412.	6.6	14
64	Effect of Ultrasonic Frequency and Power Density for Degradation of Dichloroacetonitrile by Sonolytic Ozonation. Japanese Journal of Applied Physics, 2012, 51, 07GD07.	0.8	14
65	Arsenic adsorption on two types of powdered and beaded coal mine drainage sludge adsorbent. Chemosphere, 2021, 272, 129560.	4.2	13
66	Sonochemical Oxidation of Arsenite in Aqueous Phase. Japanese Journal of Applied Physics, 2011, 50, 07HE13.	0.8	12
67	Arsenite removal using a pilot system of ultrasound and ultraviolet followed by microfiltration. Ultrasonics Sonochemistry, 2014, 21, 1527-1534.	3.8	12
68	Distribution of electrical energy consumption for the efficient degradation control of THMs mixture in sonophotolytic process. Ultrasonics Sonochemistry, 2014, 21, 1982-1987.	3.8	11
69	Application of nanofiltration pretreatment to remove divalent ions for economical seawater reverse osmosis desalination. Desalination and Water Treatment, 0, , 1-10.	1.0	10
70	Mesoporous TiO₂ encapsulating a visible-light responsive upconversion agent for enhanced sonocatalytic degradation of bisphenol-A. RSC Advances, 2016, 6, 37434-37442.	1.7	9
71	Treatment of polychlorinated dibenzo-p-dioxins and dibenzofurans contaminated soil using S2O82â˜ with ferrous ion and heat as activating methods. Chemical Engineering Journal, 2020, 384, 123299.	6.6	9
72	Ultrasonically Enhanced Diesel Removal from Soil. Japanese Journal of Applied Physics, 2007, 46, 4912.	0.8	8

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73	Sonophotocatalytic Destruction of Chloroform: Comparison of Processes and Synergistic Effects. Japanese Journal of Applied Physics, 2011, 50, 07HE10.	0.8	8
74	Degradation of Diethyl Phthalate by Sono-Fenton Process and its Dependence on the Power Density. Japanese Journal of Applied Physics, 2011, 50, 07HE09.	0.8	8
75	Synthesis of Copper Hydroxide and Oxide Nanostructures via Anodization Technique for Efficient Photocatalytic Application. Journal of Nanoscience and Nanotechnology, 2012, 12, 8396-8400.	0.9	8
76	Catalytic assistance of ultrasound for manganese removal by waste oyster shells. Journal of Environmental Management, 2013, 115, 235-240.	3.8	8
77	Investigation of sonochemical activities at a frequency of 334 kHz: The effect of geometric parameters of sonoreactor. Ultrasonics Sonochemistry, 2014, 21, 1504-1511.	3.8	8
78	Demonstration and evaluation of potential configuration options for shale-wastewater treatment plant by combining several unit processes. Journal of Cleaner Production, 2019, 232, 867-876.	4.6	8
79	Rare earth real wastewater treatment by pilot scale using new concept continuous treatment process. Chemosphere, 2021, 279, 130523.	4.2	8
80	Sonophotocatalytic Destruction of Chloroform: Comparison of Processes and Synergistic Effects. Japanese Journal of Applied Physics, 2011, 50, 07HE10.	0.8	8
81	Performance of a Membrane Diffuser Bioreactor for the Removal of Gaseous Toluene. Environmental Engineering Science, 2007, 24, 927-936.	0.8	7
82	A bioactive foam reactor for the removal of volatile organic compounds: system performance and model development. Bioprocess and Biosystems Engineering, 2007, 30, 439-446.	1.7	7
83	Remediation of Diesel-Contaminated Soil Using Supercritical Carbon Dioxide and Ultrasound. Japanese Journal of Applied Physics, 2008, 47, 4314.	0.8	7
84	Effect of Bulk Temperature and Frequency on the Sonolytic Degradation of 1,4-Dioxane with Fe⁰. Industrial & Engineering Chemistry Research, 2011, 50, 5394-5400.	1.8	7
85	Ordered mesoporous carbon-silica frameworks confined magnetic mesoporous TiO2 as an efficient catalyst under acoustic cavitation energy. Journal of Materiomics, 2020, 6, 45-53.	2.8	7
86	Arsenite Oxidation and Treatment by Ultrasound/Iron in Aqueous Solutions. Japanese Journal of Applied Physics, 2011, 50, 07HE08.	0.8	7
87	Arsenic adsorption study in acid mine drainage using fixed bed column by novel beaded adsorbent. Chemosphere, 2022, 291, 132894.	4.2	7
88	Synthesis Mechanism and Thermal Optimization of an Economical Mesoporous Material Using Silica: Implications for the Effective Removal or Delivery of Ibuprofen. PLoS ONE, 2015, 10, e0130253.	1.1	6
89	Evaluation of the recyclability of construction and demolition waste fines as a garden substrate and soil amendment agent: a case study from the Republic of Korea. Journal of Material Cycles and Waste Management, 2020, 22, 479-487.	1.6	6
90	Characteristics of phosphorus containing waste-bones. Materials Letters, 2007, 61, 677-679.	1.3	5

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91	Sonochemical Oxidation of Cyanide Using Potassium Peroxydisulfate as an Oxidizing Agent. Japanese Journal of Applied Physics, 2012, 51, 07GD13.	0.8	5
92	A Full-Scale Successive Alkalinity-Producing Passive System (SAPPS) for the Treatment of Acid Mine Drainage. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	5
93	Fine-structured oxide ceramics from a novel replication method. Ceramics International, 2016, 42, 10872-10878.	2.3	5
94	Evaluation of stabilizing material and stabilization efficiency through comparative study of toxic heavy metal transfer between corn and peanut grown in stabilized field soil. Environmental Pollution, 2021, 275, 116617.	3.7	4
95	Quantification of perfluorooctanoic acid decomposition mechanism applying negative voltage to anode during photoelectrochemical process. Chemosphere, 2021, 284, 131311.	4.2	4
96	Degradation of Diethyl Phthalate by Sono-Fenton Process and its Dependence on the Power Density. Japanese Journal of Applied Physics, 2011, 50, 07HE09.	0.8	4
97	Assessment of waters and sediments impacted by drainage at the Young Dong coal mine site, South Korea. Environmental Science and Pollution Research, 2012, 19, 19-30.	2.7	3
98	Assessing soil and groundwater contamination in a metropolitan redevelopment project. Environmental Monitoring and Assessment, 2013, 185, 6855-6865.	1.3	3
99	Evaluation of self-oxidation and selectivity of iron-based reductant in anaerobic pentachlorophenol contaminated soil. Journal of Hazardous Materials, 2022, 424, 127322.	6.5	3
100	Facile synthesis of uniform magnetic graphitic carbon for an efficient adsorption of pentachlorophenol. RSC Advances, 2017, 7, 35012-35015.	1.7	2
101	Mechanistic investigations in sonochemical degradation of trihalomethanes in presence of nonâ€“porous and mesoporous silica nanospheres. Journal of Water Process Engineering, 2018, 24, 26-34.	2.6	2
102	Effects of Power Density and TiO2Dose in the Sonocatalytic Degradation of Diethyl Phthalate Using High Frequency. Japanese Journal of Applied Physics, 2012, 51, 07GD09.	0.8	2
103	Evaluation of anode materials in sonoelectrochemistry processes: Kinetic, mechanism, and cost estimation. Chemosphere, 2022, 306, 135547.	4.2	2
104	Effect of Ultrasound on Rate of Flow through Porous Media. Japanese Journal of Applied Physics, 2004, 43, L1482-L1484.	0.8	1
105	Stabilization of Heavy Metal Contaminated Paddy Soils. Korean Society of Hazard Mitigation, 2012, 12, 287-292.	0.1	1
106	The Effect of Irradiation Distance/Volume on Sonochemical Oxidation of Arsenite. Daehan Hwan'gyeong Gonghag Hoeji, 2012, 34, 247-253.	0.4	1
107	Addition of Sonochemical Reactor to the Solar Photocatalytic Compound Parabolic Concentrators System. Japanese Journal of Applied Physics, 2011, 50, 07HE14.	0.8	0
108	Addition of Sonochemical Reactor to the Solar Photocatalytic Compound Parabolic Concentrators System. Japanese Journal of Applied Physics, 2011, 50, 07HE14.	0.8	0

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109	The Study of Ibuprofen Degradation Properties by Combination of Wave Energy (Ultrasound,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	0