Kaimin Shih

List of Publications by Year
in descending order

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282	13,128	18465 62	31818 101
papers	citations	h-index	g-index

285	285	285	12549
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sulfate Radical-Mediated Degradation of Sulfadiazine by CuFeO₂ Rhombohedral Crystal-Catalyzed Peroxymonosulfate: Synergistic Effects and Mechanisms. Environmental Science & Technology, 2016, 50, 3119-3127.	4.6	563
2	Assessing heavy metal pollution in the surface soils of a region that had undergone three decades of intense industrialization and urbanization. Environmental Science and Pollution Research, 2013, 20, 6150-6159.	2.7	427
3	The partition behavior of perfluorooctanesulfonate (PFOS) and perfluorooctanesulfonamide (FOSA) on microplastics. Chemosphere, 2015, 119, 841-847.	4.2	393
4	Is Excess PbI₂ Beneficial for Perovskite Solar Cell Performance?. Advanced Energy Materials, 2016, 6, 1502206.	10.2	322
5	Adsorption of perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA) on alumina: Influence of solutionÂpH and cations. Water Research, 2011, 45, 2925-2930.	5.3	306
6	Efficient degradation of sulfamethazine with CuCo2O4 spinel nanocatalysts for peroxymonosulfate activation. Chemical Engineering Journal, 2015, 280, 514-524.	6.6	261
7	Oxidative degradation of propachlor by ferrous and copper ion activated persulfate. Science of the Total Environment, 2012, 416, 507-512.	3.9	247
8	Development of Nano-Sulfide Sorbent for Efficient Removal of Elemental Mercury from Coal Combustion Fuel Gas. Environmental Science & Technology, 2016, 50, 9551-9557.	4.6	239
9	Tensile performance of sustainable Strain-Hardening Cementitious Composites with hybrid PVA and recycled PET fibers. Cement and Concrete Research, 2018, 107, 110-123.	4.6	185
10	Adsorption behavior of perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA) on boehmite. Chemosphere, 2012, 89, 1009-1014.	4.2	173
11	Co 3 O 4 /Co nanoparticles enclosed graphitic carbon as anode material for high performance Li-ion batteries. Chemical Engineering Journal, 2017, 321, 495-501.	6.6	173
12	Surface-bound sulfate radical-dominated degradation of 1,4-dioxane by alumina-supported palladium (Pd/Al 2 O 3) catalyzed peroxymonosulfate. Water Research, 2017, 120, 12-21.	5.3	172
13	Optimization of preparation procedure of liquid warm mix additive modified asphalt rubber. Journal of Cleaner Production, 2017, 141, 336-345.	4.6	167
14	Adsorption of phosphorus by calcium-flour biochar: Isotherm, kinetic and transformation studies. Chemosphere, 2018, 195, 666-672.	4.2	156
15	Facile synthesis of highly reactive and stable Fe-doped g-C3N4 composites for peroxymonosulfate activation: A novel nonradical oxidation process. Journal of Hazardous Materials, 2018, 354, 63-71.	6.5	154
16	SCR Atmosphere Induced Reduction of Oxidized Mercury over CuOâ€“CeO₂/TiO₂ Catalyst. Environmental Science & Technology, 2015, 49, 7373-7379.	4.6	153
17	Metallurgy Inspired Formation of Homogeneous Al₂O₃ Coating Layer To Improve the Electrochemical Properties of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode Material. ACS Sustainable Chemistry and Engineering, 2017, 5, 10199-10205.	3.2	131
18	Uranium extraction using hydroxyapatite recovered from phosphorus containing wastewater. Journal of Hazardous Materials, 2020, 382, 120784.	6.5	131

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19	Multiform Sulfur Adsorption Centers and Copper-Terminated Active Sites of Nano-CuS for Efficient Elemental Mercury Capture from Coal Combustion Flue Gas. Langmuir, 2018, 34, 8739-8749.	1.6	128
20	Dechlorinating transformation of propachlor through nucleophilic substitution by dithionite on the surface of alumina. Journal of Soils and Sediments, 2012, 12, 724-733.	1.5	127
21	Enhanced selective photocatalytic reduction of CO2 to CH4 over plasmonic Au modified g-C3N4 photocatalyst under UVâ€“vis light irradiation. Applied Surface Science, 2018, 439, 552-559.	3.1	126
22	Li3V(MoO4)3 as a novel electrode material with good lithium storage properties and improved initial coulombic efficiency. Nano Energy, 2018, 44, 272-278.	8.2	125
23	Hexavalent chromium removal from near natural water by copperâ€“iron bimetallic particles. Water Research, 2010, 44, 3101-3108.	5.3	123
24	Peroxymonosulfate activation through LED-induced ZnFe2O4 for levofloxacin degradation. Chemical Engineering Journal, 2021, 417, 129225.	6.6	118
25	Recycling contaminated wood into eco-friendly particleboard using green cement and carbon dioxide curing. Journal of Cleaner Production, 2016, 137, 861-870.	4.6	116
26	Ultrasound assisted zero valent iron corrosion for peroxymonosulfate activation for Rhodamine-B degradation. Chemosphere, 2019, 228, 412-417.	4.2	114
27	Effects of calcium and ferric ions on struvite precipitation: A new assessment based on quantitative X-ray diffraction analysis. Water Research, 2016, 95, 310-318.	5.3	106
28	Value-added recycling of construction waste wood into noise and thermal insulating cement-bonded particleboards. Construction and Building Materials, 2016, 125, 316-325.	3.2	106
29	Accurate construction of a hierarchical nickelâ€“cobalt oxide multishell yolkâ€“shell structure with large and ultrafast lithium storage capability. Journal of Materials Chemistry A, 2017, 5, 14996-15001.	5.2	106
30	Effect of temperature on oxidative transformation of perfluorooctanoic acid (PFOA) by persulfate activation in water. Separation and Purification Technology, 2012, 91, 46-51.	3.9	105
31	Fabrication of Heterostructured g-C3N4/Ag-TiO2 Hybrid Photocatalyst with Enhanced Performance in Photocatalytic Conversion of CO2 Under Simulated Sunlight Irradiation. Applied Surface Science, 2017, 402, 198-207.	3.1	104
32	Perfluorochemicals in wastewater treatment plants and sediments in Hong Kong. Environmental Pollution, 2010, 158, 1354-1362.	3.7	102
33	Magnetic Rattle-Type Fe₃O₄@CuS Nanoparticles as Recyclable Sorbents for Mercury Capture from Coal Combustion Flue Gas. ACS Applied Nano Materials, 2018, 1, 4726-4736.	2.4	100
34	Carbothermal reduction for preparing nZVI/BC to extract uranium: Insight into the iron species dependent uranium adsorption behavior. Journal of Cleaner Production, 2019, 239, 117873.	4.6	100
35	Degradation of contaminants by Cu + -activated molecular oxygen in aqueous solutions: Evidence for cupryl species (Cu 3+). Journal of Hazardous Materials, 2017, 331, 81-87.	6.5	99
36	Enhanced phosphorus availability and heavy metal removal by chlorination during sewage sludge pyrolysis. Journal of Hazardous Materials, 2020, 382, 121110.	6.5	99

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37	Nickel Stabilization Efficiency of Aluminate and Ferrite Spinels and Their Leaching Behavior. Environmental Science & Technology, 2006, 40, 5520-5526.	4.6	96
38	CuOâ€“CeO₂/TiO₂ catalyst for simultaneous NO reduction and Hg⁰ oxidation at low temperatures. Catalysis Science and Technology, 2015, 5, 5129-5138.	2.1	95
39	Improving the electrochemical performance of lithium vanadium fluorophosphate cathode material: Focus on interfacial stability. Journal of Power Sources, 2016, 329, 553-557.	4.0	94
40	Spinel Formation for Stabilizing Simulated Nickel-Laden Sludge with Aluminum-Rich Ceramic Precursors. Environmental Science & Technology, 2006, 40, 5077-5083.	4.6	92
41	Fe(II)-induced phase transformation of ferrihydrite: The inhibition effects and stabilization of divalent metal cations. Chemical Geology, 2016, 444, 110-119.	1.4	91
42	In situ embedment and growth of anhydrous and hydrated aluminum oxide particles on polyvinylidene fluoride (PVDF) membranes. Journal of Membrane Science, 2011, 368, 134-143.	4.1	90
43	Copper-promoted circumneutral activation of H2O2 by magnetic CuFe2O4 spinel nanoparticles: Mechanism, stoichiometric efficiency, and pathway of degrading sulfanilamide. Chemosphere, 2016, 154, 573-582.	4.2	87
44	Phosphorus recovery through adsorption by layered double hydroxide nano-composites and transfer into a struvite-like fertilizer. Water Research, 2018, 145, 721-730.	5.3	87
45	Rapid Selective Circumneutral Degradation of Phenolic Pollutants Using Peroxymonosulfateâ€“Iodide Metal-Free Oxidation: Role of Iodine Atoms. Environmental Science & Technology, 2017, 51, 2312-2320.	4.6	86
46	A novel thin-film nano-templated composite membrane with in situ silver nanoparticles loading: Separation performance enhancement and implications. Journal of Membrane Science, 2017, 544, 351-358.	4.1	86
47	A MoS2 coating strategy to improve the comprehensive electrochemical performance of LiVPO4F. Journal of Power Sources, 2016, 315, 294-301.	4.0	83
48	Effectiveness and Mechanisms of Defluorination of Perfluorinated Alkyl Substances by Calcium Compounds during Waste Thermal Treatment. Environmental Science & Technology, 2015, 49, 5672-5680.	4.6	81
49	Matrix design for waterproof Engineered Cementitious Composites (ECCs). Construction and Building Materials, 2017, 139, 438-446.	3.2	79
50	Synergy of CuO and CeO2 combination for mercury oxidation under low-temperature selective catalytic reduction atmosphere. International Journal of Coal Geology, 2017, 170, 69-76.	1.9	77
51	Degradation of 1,4-dioxane via controlled generation of radicals by pyrite-activated oxidants: Synergistic effects, role of disulfides, and activation sites. Chemical Engineering Journal, 2018, 336, 416-426.	6.6	77
52	Green and facile synthesis of cobalt-based metalâ€“organic frameworks for the efficient removal of Congo red from aqueous solution. Journal of Colloid and Interface Science, 2020, 578, 500-509.	5.0	76
53	Effect of Nitrogen Oxides on Elemental Mercury Removal by Nanosized Mineral Sulfide. Environmental Science & Technology, 2017, 51, 8530-8536.	4.6	75
54	Nanosized Copper Selenide Functionalized Zeolitic Imidazolate Frameworkâ€8 (CuSe/ZIFâ€8) for Efficient Immobilization of Gasâ€Phase Elemental Mercury. Advanced Functional Materials, 2019, 29, 1807191.	7.8	74

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55	Mineralization Behavior of Fluorine in Perfluorooctanesulfonate (PFOS) during Thermal Treatment of Lime-Conditioned Sludge. Environmental Science & Technology, 2013, 47, 2621-2627.	4.6	73
56	Promotional effect of CuO loading on the catalytic activity and SO2 resistance of MnOx/TiO2 catalyst for simultaneous NO reduction and Hg0 oxidation. Fuel, 2018, 227, 79-88.	3.4	73
57	Recycling polyethylene terephthalate wastes as short fibers in Strain-Hardening Cementitious Composites (SHCC). Journal of Hazardous Materials, 2018, 357, 40-52.	6.5	69
58	CO2-Driven Ocean Acidification Alters and Weakens Integrity of the Calcareous Tubes Produced by the Serpulid Tubeworm, Hydroides elegans. PLoS ONE, 2012, 7, e42718.	1.1	68
59	A metal-free method of generating sulfate radicals through direct interaction of hydroxylamine and peroxymonosulfate: Mechanisms, kinetics, and implications. Chemical Engineering Journal, 2017, 330, 906-913.	6.6	68
60	Formation of copper aluminate spinel and cuprous aluminate delafossite to thermally stabilize simulated copper-laden sludge. Journal of Hazardous Materials, 2010, 181, 399-404.	6.5	67
61	Activation of Persulfates Using Siderite as a Source of Ferrous Ions: Sulfate Radical Production, Stoichiometric Efficiency, and Implications. ACS Sustainable Chemistry and Engineering, 2018, 6, 3624-3631.	3.2	67
62	Copper Stabilization via Spinel Formation during the Sintering of Simulated Copper-Laden Sludge with Aluminum-Rich Ceramic Precursors. Environmental Science & Technology, 2011, 45, 3598-3604.	4.6	66
63	Facile synthesis of morphology and size-controlled Î± -Fe 2 O 3 and Fe 3 O 4 nano-and microstructures by hydrothermal/solvothermal process: The roles of reaction medium and urea dose. Ceramics International, 2016, 42, 14793-14804.	2.3	65
64	Nano-rod Ca-decorated sludge derived carbon for removal of phosphorus. Environmental Pollution, 2018, 233, 698-705.	3.7	65
65	Copper slag as a catalyst for mercury oxidation in coal combustion flue gas. Waste Management, 2018, 74, 253-259.	3.7	64
66	Factors and mechanisms that influence the reactivity of trivalent copper: A novel oxidant for selective degradation of antibiotics. Water Research, 2019, 149, 1-8.	5.3	64
67	Degradation mechanisms of ofloxacin and cefazolin using peroxymonosulfate activated by reduced graphene oxide-CoFe2O4 composites. Chemical Engineering Journal, 2020, 383, 123056.	6.6	63
68	Biostimulation of Indigenous Microbial Communities for Anaerobic Transformation of Pentachlorophenol in Paddy Soils of Southern China. Journal of Agricultural and Food Chemistry, 2012, 60, 2967-2975.	2.4	62
69	Red mud powders as low-cost and efficient catalysts for persulfate activation: Pathways and reusability of mineralizing sulfadiazine. Separation and Purification Technology, 2016, 167, 136-145.	3.9	62
70	Elemental mercury oxidation over manganese oxide octahedral molecular sieve catalyst at low flue gas temperature. Chemical Engineering Journal, 2019, 356, 142-150.	6.6	62
71	Zinc Stabilization Efficiency of Aluminate Spinel Structure and its Leaching Behavior. Environmental Science & Technology, 2011, 45, 10544-10550.	4.6	61
72	Copper aluminate spinel in the stabilization and detoxification of simulated copper-laden sludge. Chemosphere, 2010, 80, 375-380.	4.2	60

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73	Binding of Mercury Species and Typical Flue Gas Components on ZnS(110). Energy & Fuels, 2017, 31, 5355-5362.	2.5	60
74	Yttrium-doped iron oxide magnetic adsorbent for enhancement in arsenic removal and ease in separation after applications. Journal of Colloid and Interface Science, 2018, 521, 252-260.	5.0	60
75	Effect of humic acid on the sorption of perfluorooctane sulfonate (PFOS) and perfluorobutane sulfonate (PFBS) on boehmite. Chemosphere, 2015, 118, 213-218.	4.2	59
76	Review on the synthesis and activity of iron-based catalyst in catalytic oxidation of refractory organic pollutants in wastewater. Journal of Cleaner Production, 2021, 321, 128924.	4.6	59
77	Role of Sulfur Trioxide (SO₃) in Gas-Phase Elemental Mercury Immobilization by Mineral Sulfide. Environmental Science & Technology, 2019, 53, 3250-3257.	4.6	58
78	Enhanced bioleaching efficiency of copper from waste printed circuit board driven by nitrogen-doped carbon nanotubes modified electrode. Chemical Engineering Journal, 2017, 324, 122-129.	6.6	57
79	Amorphous Molybdenum Selenide Nanosheet as an Efficient Trap for the Permanent Sequestration of Vaporâ€Phase Elemental Mercury. Advanced Science, 2019, 6, 1901410.	5.6	57
80	Sorption performance and mechanism of a sludge-derived char as porous carbon-based hybrid adsorbent for benzene derivatives in aqueous solution. Journal of Hazardous Materials, 2014, 274, 205-211.	6.5	56
81	Solvent-free hydrothermal synthesis of gamma-aluminum oxide nanoparticles with selective adsorption of Congo red. Journal of Colloid and Interface Science, 2019, 536, 180-188.	5.0	56
82	Environmental-friendly preparation of Niâ€“Co layered double hydroxide (LDH) hierarchical nanoarrays for efficient removing uranium (VI). Journal of Cleaner Production, 2021, 308, 127384.	4.6	56
83	Double-Barrier mechanism for chromium immobilization: A quantitative study of crystallization and leachability. Journal of Hazardous Materials, 2016, 311, 246-253.	6.5	55
84	Fabrication of reactive flat-sheet ceramic membranes for oxidative degradation of ofloxacin by peroxymonosulfate. Journal of Membrane Science, 2020, 611, 118302.	4.1	55
85	Copper stabilization in beneficial use of waterworks sludge and copper-laden electroplating sludge for ceramic materials. Waste Management, 2014, 34, 1085-1091.	3.7	54
86	Catalytic effect of graphene in bioleaching copper from waste printed circuit boards by Acidithiobacillus ferrooxidans. Hydrometallurgy, 2017, 171, 172-178.	1.8	54
87	Adsorption of perfluorinated compounds on thinâ€film composite polyamide membranes. Journal of Applied Polymer Science, 2012, 124, 1042-1049.	1.3	53
88	Selenide functionalized natural mineral sulfides as efficient sorbents for elemental mercury capture from coal combustion flue gas. Chemical Engineering Journal, 2020, 398, 125611.	6.6	53
89	Dual Roles of Nano-Sulfide in Efficient Removal of Elemental Mercury from Coal Combustion Flue Gas within a Wide Temperature Range. Environmental Science & Technology, 2018, 52, 12926-12933.	4.6	52
90	Nickel aluminate spinel formation during sintering of simulated Ni-laden sludge and kaolinite. Journal of the European Ceramic Society, 2007, 27, 91-99.	2.8	51

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91	Palladiumâ˜Indium Catalyzed Reduction of N-Nitrosodimethylamine: Indium as a Promoter Metal. Environmental Science & Technology, 2008, 42, 3040-3046.	4.6	51
92	Adsorption and Thermal Stabilization of Pb²⁺ and Cu²⁺ by Zeolite. Industrial & Engineering Chemistry Research, 2016, 55, 8767-8773.	1.8	51
93	Detoxification and immobilization of chromite ore processing residue in spinel-based glass-ceramic. Journal of Hazardous Materials, 2017, 321, 449-455.	6.5	51
94	A short-range orderedâ€“disordered transition of a NiOOH/Ni(OH)₂ pair induces switchable wettability. Nanoscale, 2014, 6, 15309-15315.	2.8	47
95	Quantitative X-ray Diffraction (QXRD) analysis for revealing thermal transformations of red mud. Chemosphere, 2015, 131, 171-177.	4.2	47
96	Coexistence of enhanced Hg0 oxidation and induced Hg2+ reduction on CuO/TiO2 catalyst in the presence of NO and NH3. Chemical Engineering Journal, 2017, 330, 1248-1254.	6.6	47
97	Development of selenized magnetite (Fe3O4â˜xSey) as an efficient and recyclable trap for elemental mercury sequestration from coal combustion flue gas. Chemical Engineering Journal, 2020, 394, 125022.	6.6	47
98	Influence of support structure on the permeation behavior of polyetherimide-derived carbon molecular sieve composite membrane. Journal of Membrane Science, 2012, 405-406, 250-260.	4.1	46
99	Accuracy and application of quantitative X-ray diffraction on the precipitation of struvite product. Water Research, 2016, 90, 9-14.	5.3	46
100	Enhanced activity of AgMgOTiO2 catalyst for photocatalytic conversion of CO2 and H2O into CH4. International Journal of Hydrogen Energy, 2016, 41, 8479-8488.	3.8	45
101	Oxidative decomposition of perfluorooctanesulfonate in water by permanganate. Separation and Purification Technology, 2012, 87, 95-100.	3.9	44
102	Influence of cations on the partition behavior of perfluoroheptanoate (PFHpA) and perfluorohexanesulfonate (PFHxS) on wastewater sludge. Chemosphere, 2015, 131, 178-183.	4.2	44
103	Insights into the selective hydrogenation of levulinic acid to Î³-valerolactone using supported mono- and bimetallic catalysts. Journal of Molecular Catalysis A, 2016, 417, 145-152.	4.8	42
104	Ferric iron enhanced chloramphenicol oxidation in pyrite (FeS2) induced Fenton-like reactions. Separation and Purification Technology, 2015, 154, 60-67.	3.9	39
105	Cu₂O-promoted degradation of sulfamethoxazole by Î±-Fe₂O₃-catalyzed peroxymonosulfate under circumneutral conditions: synergistic effect, Cu/Fe ratios, and mechanisms. Environmental Technology (United Kingdom), 2018, 39, 1-11.	1.2	39
106	NH3 inhibits mercury oxidation over low-temperature MnOx/TiO2 SCR catalyst. Fuel Processing Technology, 2018, 176, 124-130.	3.7	39
107	Activation of peroxymonosulfate by Fe0@Fe3O4 core-shell nanowires for sulfate radical generation: Electron transfer and transformation products. Separation and Purification Technology, 2020, 247, 116942.	3.9	38
108	Cadmium Stabilization Efficiency and Leachability by CdAl₄O₇ Monoclinic Structure. Environmental Science & Technology, 2015, 49, 14452-14459.	4.6	37

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109	Incorporation of Cadmium and Nickel into Ferrite Spinel Solid Solution: X-ray Diffraction and X-ray Absorption Fine Structure Analyses. Environmental Science & Technology, 2018, 52, 775-782.	4.6	37
110	Lead glass-ceramics produced from the beneficial use of waterworks sludge. Water Research, 2013, 47, 1353-1360.	5.3	36
111	Lead removal from water â€“ dependence on the form of carbon and surface functionalization. RSC Advances, 2018, 8, 18355-18362.	1.7	36
112	Extraction of Metallic Lead from Cathode Ray Tube (CRT) Funnel Glass by Thermal Reduction with Metallic Iron. Environmental Science & Technology, 2013, 47, 9972-9978.	4.6	35
113	The effect of surface treatments on dental zirconia: An analysis of biaxial flexural strength, surface roughness and phase transformation. Journal of Dentistry, 2018, 75, 65-73.	1.7	34
114	Effects of flue-gas parameters on low temperature NO reduction over a Cu-promoted CeO2â€“TiO2 catalyst. Fuel, 2015, 159, 876-882.	3.4	33
115	Continuousâ€Flow Synthesis of Supported Magnetic Iron Oxide Nanoparticles for Efficient Isoeugenol Conversion into Vanillin. ChemSusChem, 2018, 11, 389-396.	3.6	33
116	Influence of calcium hydroxide on the fate of perfluorooctanesulfonate under thermal conditions. Journal of Hazardous Materials, 2011, 192, 1067-1071.	6.5	32
117	Adsorption Behavior of Perfluorochemicals (PFCs) on Boehmite: Influence of Solution Chemistry. Procedia Environmental Sciences, 2013, 18, 106-113.	1.3	32
118	Surface polarity control in ZnO films deposited by pulsed laser deposition. Applied Surface Science, 2019, 483, 1129-1135.	3.1	32
119	Hydrothermally synthesized CuxO as a catalyst for CO oxidation. Journal of Materials Chemistry A, 2015, 3, 3627-3632.	5.2	30
120	Effect of molybdenum substitution on electrochemical performance of Li[Li0.2Mn0.54Co0.13Ni0.13]O2 cathode material. Ceramics International, 2017, 43, 14836-14841.	2.3	30
121	Amorphous molybdenum selenide intercalated magnetite as a recyclable trap for the effective sequestration of elemental mercury. Journal of Materials Chemistry A, 2020, 8, 14955-14965.	5.2	30
122	Copper Sludge from Printed Circuit Board Production/Recycling for Ceramic Materials: A Quantitative Analysis of Copper Transformation and Immobilization. Environmental Science & Technology, 2013, 47, 8609-8615.	4.6	29
123	Insights into the Microwave-Assisted Mild Deconstruction of Lignin Feedstocks Using NiO-Containing ZSM-5 Zeolites. ACS Sustainable Chemistry and Engineering, 2016, 4, 4305-4313.	3.2	29
124	Solventâ€Switching Gelation and Orangeâ€“Red Emission of Ultrasmall Copper Nanoclusters. ChemPhysChem, 2016, 17, 225-231.	1.0	28
125	Nonradical degradation of microorganic pollutants by magnetic N-doped graphitic carbon: A complement to the unactivated peroxymonosulfate. Chemical Engineering Journal, 2020, 392, 123724.	6.6	28
126	Highly efficient catalysts of phytic acid-derivative cobalt phosphide encapsulated in N, P-codoped carbon for activation of peroxymonosulfate in norfloxacin degradation. Separation and Purification Technology, 2021, 264, 118367.	3.9	28

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127	Effect of Plasma Treatment on Native Defects and Photocatalytic Activities of Zinc Oxide Tetrapods. Journal of Physical Chemistry C, 2014, 118, 22760-22767.	1.5	27
128	Toward an Understanding of Fundamentals Governing the Elemental Mercury Sequestration by Metal Chalcogenides. Environmental Science & Technology, 2020, 54, 9672-9680.	4.6	27
129	Synergistic effect of HCl and NO in elemental mercury catalytic oxidation over La2O3-TiO2 catalyst. Fuel, 2018, 215, 232-238.	3.4	26
130	Photocatalytic hydrogen generation from water under visible light using core/shell nano-catalysts. Water Science and Technology, 2010, 61, 2303-2308.	1.2	25
131	Formation of lead-aluminate ceramics: Reaction mechanisms in immobilizing the simulated lead sludge. Chemosphere, 2015, 138, 156-163.	4.2	25
132	Molybdenum Disulfideâ€Coated Lithium Vanadium Fluorophosphate Anode: Experiments and Firstâ€Principles Calculations. ChemSusChem, 2016, 9, 2122-2128.	3.6	25
133	Cave-embedded porous Mn2O3 hollow microsphere as anode material for lithium ion batteries. Electrochimica Acta, 2017, 247, 795-802.	2.6	25
134	The influence of cobalt doping on photocatalytic nano-titania: Crystal chemistry and amorphicity. Journal of Solid State Chemistry, 2007, 180, 2905-2915.	1.4	24
135	Synthesis of submicron lead oxide particles from the simulated spent lead paste for battery anodes. Journal of Alloys and Compounds, 2017, 690, 101-107.	2.8	24
136	Recovery of phosphorus rich krill shell biowaste for uranium immobilization: A study of sorption behavior, surface reaction, and phase transformation. Environmental Pollution, 2018, 243, 630-636.	3.7	24
137	Cubic and tetragonal ferrite crystal structures for copper ion immobilization in an iron-rich ceramic matrix. RSC Advances, 2016, 6, 28579-28585.	1.7	23
138	Effects of ionic radius on phase evolution in Ln-Al co-doped Ca1-xLnxZrTi2-xAlxO7 (Ln = La, Nd, Gd, Ho,) Tj ETQq0 0 0 rgBT /Overlock 10	2.3	23
139	Insight into flower-like greigite-based peroxydisulfate activation for effective bisphenol a abatement: Performance and electron transfer mechanism. Chemical Engineering Journal, 2020, 391, 123558.	6.6	23
140	Sulfate radical-induced destruction of emerging contaminants using traces of cobalt ions as catalysts. Chemosphere, 2020, 256, 127061.	4.2	23
141	Phase transformation and its role in stabilizing simulated lead-laden sludge in aluminum-rich ceramics. Water Research, 2011, 45, 5123-5129.	5.3	22
142	Removal of perfluoroalkyl sulfonates (PFAS) from aqueous solution using permanently confined micelle arrays (PCMAs). Separation and Purification Technology, 2014, 138, 7-12.	3.9	22
143	In Situ Synthesis of Cu_xO/SnO_x@CNT and Cu_xO/SnO_x@SnO₂/CNT Nanocomposite Anodes for Lithium Ion Batteries by a Simple Chemical Treatment Process. ACS Applied Materials & Interfaces, 2014, 6, 13478-13486.	4.0	22
144	Study on the pyrolysis products of two different hardwood lignins in the presence of NiO contained-zeolites. Biomass and Bioenergy, 2017, 103, 29-34.	2.9	22

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145	Synthesis of FC-supported Fe through a carbothermal process for immobilizing uranium. Journal of Hazardous Materials, 2018, 357, 168-174.	6.5	22
146	Temperature Dependent Effects of Elevated CO2 on Shell Composition and Mechanical Properties of Hydroides elegans: Insights from a Multiple Stressor Experiment. PLoS ONE, 2013, 8, e78945.	1.1	22
147	Quantification of the lateral detachment force for bacterial cells using atomic force microscope and centrifugation. Ultramicroscopy, 2011, 111, 131-139.	0.8	21
148	Transformation of hazardous lead into lead ferrite ceramics: Crystal structures and their role in lead leaching. Journal of Hazardous Materials, 2017, 336, 139-145.	6.5	21
149	Mechanistic insight into the generation of high-valent iron-oxo species via peroxymonosulfate activation: An experimental and density functional theory study. Chemical Engineering Journal, 2021, 420, 130477.	6.6	21
150	Crystal Structures of Alâ€“Nd Codoped Zirconolite Derived from Glass Matrix and Powder Sintering. Inorganic Chemistry, 2015, 54, 7353-7361.	1.9	20
151	Mineralization of perfluorooctanesulfonate (PFOS) and perfluorodecanoate (PFDA) from aqueous solution by porous hexagonal boron nitride: adsorption followed by simultaneous thermal decomposition and regeneration. RSC Advances, 2016, 6, 113773-113780.	1.7	20
152	Producing sawdust derived activated carbon by co-calcinations with limestone for enhanced Acid Orange II adsorption. Journal of Cleaner Production, 2017, 168, 22-29.	4.6	20
153	Cadmium stabilization via silicates formation: Efficiency, reaction routes and leaching behavior of products. Environmental Pollution, 2018, 239, 571-578.	3.7	20
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