

Kaimin Shih

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273
papers

9,151
citations

53
h-index

84
g-index

285
ext. papers

11,172
ext. citations

7.9
avg, IF

6.72
L-index

#	Paper	IF	Citations
273	Sulfate Radical-Mediated Degradation of Sulfadiazine by CuFeO ₂ Rhombohedral Crystal-Catalyzed Peroxymonosulfate: Synergistic Effects and Mechanisms. <i>Environmental Science & Technology</i> , 2016 , 50, 3119-27	10.3	395
272	Assessing heavy metal pollution in the surface soils of a region that had undergone three decades of intense industrialization and urbanization. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 6150-9	5.1	332
271	The partition behavior of perfluorooctanesulfonate (PFOS) and perfluorooctanesulfonamide (FOSA) on microplastics. <i>Chemosphere</i> , 2015 , 119, 841-847	8.4	237
270	Is Excess PbI ₂ Beneficial for Perovskite Solar Cell Performance?. <i>Advanced Energy Materials</i> , 2016 , 6, 1502206	21.8	226
269	Adsorption of perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA) on alumina: influence of solution pH and cations. <i>Water Research</i> , 2011 , 45, 2925-30	12.5	220
268	Oxidative degradation of propachlor by ferrous and copper ion activated persulfate. <i>Science of the Total Environment</i> , 2012 , 416, 507-12	10.2	207
267	Efficient degradation of sulfamethazine with CuCo ₂ O ₄ spinel nanocatalysts for peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2015 , 280, 514-524	14.7	185
266	Development of Nano-Sulfide Sorbent for Efficient Removal of Elemental Mercury from Coal Combustion Fuel Gas. <i>Environmental Science & Technology</i> , 2016 , 50, 9551-7	10.3	176
265	Co ₃ O ₄ /Co nanoparticles enclosed graphitic carbon as anode material for high performance Li-ion batteries. <i>Chemical Engineering Journal</i> , 2017 , 321, 495-501	14.7	143
264	Optimization of preparation procedure of liquid warm mix additive modified asphalt rubber. <i>Journal of Cleaner Production</i> , 2017 , 141, 336-345	10.3	134
263	SCR atmosphere induced reduction of oxidized mercury over CuO-CeO ₂ /TiO ₂ catalyst. <i>Environmental Science & Technology</i> , 2015 , 49, 7373-9	10.3	129
262	Adsorption behavior of perfluorooctanesulfonate (PFOS) and perfluorooctanoate (PFOA) on boehmite. <i>Chemosphere</i> , 2012 , 89, 1009-14	8.4	128
261	Surface-bound sulfate radical-dominated degradation of 1,4-dioxane by alumina-supported palladium (Pd/AlO) catalyzed peroxymonosulfate. <i>Water Research</i> , 2017 , 120, 12-21	12.5	108
260	Tensile performance of sustainable Strain-Hardening Cementitious Composites with hybrid PVA and recycled PET fibers. <i>Cement and Concrete Research</i> , 2018 , 107, 110-123	10.3	106
259	Li ₃ V(MoO ₄) ₃ as a novel electrode material with good lithium storage properties and improved initial coulombic efficiency. <i>Nano Energy</i> , 2018 , 44, 272-278	17.1	104
258	Facile synthesis of highly reactive and stable Fe-doped g-CN composites for peroxymonosulfate activation: A novel nonradical oxidation process. <i>Journal of Hazardous Materials</i> , 2018 , 354, 63-71	12.8	102
257	Adsorption of phosphorus by calcium-flour biochar: Isotherm, kinetic and transformation studies. <i>Chemosphere</i> , 2018 , 195, 666-672	8.4	101

256	Hexavalent chromium removal from near natural water by copper-iron bimetallic particles. <i>Water Research</i> , 2010 , 44, 3101-8	12.5	99
255	Metallurgy Inspired Formation of Homogeneous Al ₂ O ₃ Coating Layer To Improve the Electrochemical Properties of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10199-10205	8.3	96
254	Accurate construction of a hierarchical nickel-cobalt oxide multishell yolk-shell structure with large and ultrafast lithium storage capability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14996-15001	13	94
253	Enhanced selective photocatalytic reduction of CO ₂ to CH ₄ over plasmonic Au modified g-C ₃ N ₄ photocatalyst under UV-vis light irradiation. <i>Applied Surface Science</i> , 2018 , 439, 552-559	6.7	93
252	Perfluorochemicals in wastewater treatment plants and sediments in Hong Kong. <i>Environmental Pollution</i> , 2010 , 158, 1354-62	9.3	92
251	Multiform Sulfur Adsorption Centers and Copper-Terminated Active Sites of Nano-CuS for Efficient Elemental Mercury Capture from Coal Combustion Flue Gas. <i>Langmuir</i> , 2018 , 34, 8739-8749	4	91
250	Effect of temperature on oxidative transformation of perfluorooctanoic acid (PFOA) by persulfate activation in water. <i>Separation and Purification Technology</i> , 2012 , 91, 46-51	8.3	91
249	Improving the electrochemical performance of lithium vanadium fluorophosphate cathode material: Focus on interfacial stability. <i>Journal of Power Sources</i> , 2016 , 329, 553-557	8.9	88
248	Fabrication of Heterostructured g-C ₃ N ₄ /Ag-TiO ₂ Hybrid Photocatalyst with Enhanced Performance in Photocatalytic Conversion of CO ₂ Under Simulated Sunlight Irradiation. <i>Applied Surface Science</i> , 2017 , 402, 198-207	6.7	82
247	Nickel stabilization efficiency of aluminate and ferrite spinels and their leaching behavior. <i>Environmental Science & Technology</i> , 2006 , 40, 5520-6	10.3	82
246	CuO/TiO ₂ /TiO ₂ catalyst for simultaneous NO reduction and Hg ⁰ oxidation at low temperatures. <i>Catalysis Science and Technology</i> , 2015 , 5, 5129-5138	5.5	81
245	Effects of calcium and ferric ions on struvite precipitation: A new assessment based on quantitative X-ray diffraction analysis. <i>Water Research</i> , 2016 , 95, 310-8	12.5	81
244	Recycling contaminated wood into eco-friendly particleboard using green cement and carbon dioxide curing. <i>Journal of Cleaner Production</i> , 2016 , 137, 861-870	10.3	80
243	In situ embedment and growth of anhydrous and hydrated aluminum oxide particles on polyvinylidene fluoride (PVDF) membranes. <i>Journal of Membrane Science</i> , 2011 , 368, 134-143	9.6	78
242	Spinel formation for stabilizing simulated nickel-laden sludge with aluminum-rich ceramic precursors. <i>Environmental Science & Technology</i> , 2006 , 40, 5077-83	10.3	77
241	A MoS ₂ coating strategy to improve the comprehensive electrochemical performance of LiVPO ₄ F. <i>Journal of Power Sources</i> , 2016 , 315, 294-301	8.9	77
240	Ultrasound assisted zero valent iron corrosion for peroxymonosulfate activation for Rhodamine-B degradation. <i>Chemosphere</i> , 2019 , 228, 412-417	8.4	76
239	Dechlorinating transformation of propachlor through nucleophilic substitution by dithionite on the surface of alumina. <i>Journal of Soils and Sediments</i> , 2012 , 12, 724-733	3.4	76

238	Value-added recycling of construction waste wood into noise and thermal insulating cement-bonded particleboards. <i>Construction and Building Materials</i> , 2016 , 125, 316-325	6.7	74
237	Magnetic Rattle-Type Fe ₃ O ₄ @CuS Nanoparticles as Recyclable Sorbents for Mercury Capture from Coal Combustion Flue Gas. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4726-4736	5.6	72
236	Copper-promoted circumneutral activation of H ₂ O ₂ by magnetic CuFe ₂ O ₄ spinel nanoparticles: Mechanism, stoichiometric efficiency, and pathway of degrading sulfanilamide. <i>Chemosphere</i> , 2016 , 154, 573-582	8.4	63
235	Matrix design for waterproof Engineered Cementitious Composites (ECCs). <i>Construction and Building Materials</i> , 2017 , 139, 438-446	6.7	62
234	Effect of Nitrogen Oxides on Elemental Mercury Removal by Nanosized Mineral Sulfide. <i>Environmental Science & Technology</i> , 2017 , 51, 8530-8536	10.3	62
233	Rapid Selective Circumneutral Degradation of Phenolic Pollutants Using Peroxymonosulfate-Iodide Metal-Free Oxidation: Role of Iodine Atoms. <i>Environmental Science & Technology</i> , 2017 , 51, 2312-2320	10.3	61
232	Carbothermal reduction for preparing nZVI/BC to extract uranium: Insight into the iron species dependent uranium adsorption behavior. <i>Journal of Cleaner Production</i> , 2019 , 239, 117873	10.3	60
231	Synergy of CuO and CeO ₂ combination for mercury oxidation under low-temperature selective catalytic reduction atmosphere. <i>International Journal of Coal Geology</i> , 2017 , 170, 69-76	5.5	60
230	Degradation of contaminants by Cu-activated molecular oxygen in aqueous solutions: Evidence for cupryl species (Cu). <i>Journal of Hazardous Materials</i> , 2017 , 331, 81-87	12.8	59
229	A novel thin-film nano-templated composite membrane with in situ silver nanoparticles loading: Separation performance enhancement and implications. <i>Journal of Membrane Science</i> , 2017 , 544, 351-358	9.6	58
228	Biostimulation of indigenous microbial communities for anaerobic transformation of pentachlorophenol in paddy soils of southern China. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 2967-75	5.7	57
227	CO ₂ -driven ocean acidification alters and weakens integrity of the calcareous tubes produced by the serpulid tubeworm, <i>Hydroides elegans</i> . <i>PLoS ONE</i> , 2012 , 7, e42718	3.7	56
226	Formation of copper aluminate spinel and cuprous aluminate delafossite to thermally stabilize simulated copper-laden sludge. <i>Journal of Hazardous Materials</i> , 2010 , 181, 399-404	12.8	56
225	Uranium extraction using hydroxyapatite recovered from phosphorus containing wastewater. <i>Journal of Hazardous Materials</i> , 2020 , 382, 120784	12.8	56
224	Mineralization behavior of fluorine in perfluorooctanesulfonate (PFOS) during thermal treatment of lime-conditioned sludge. <i>Environmental Science & Technology</i> , 2013 , 47, 2621-7	10.3	54
223	Fe(II)-induced phase transformation of ferrihydrite: The inhibition effects and stabilization of divalent metal cations. <i>Chemical Geology</i> , 2016 , 444, 110-119	4.2	54
222	Promotional effect of CuO loading on the catalytic activity and SO ₂ resistance of MnOx/TiO ₂ catalyst for simultaneous NO reduction and Hg ₀ oxidation. <i>Fuel</i> , 2018 , 227, 79-88	7.1	53
221	Copper stabilization via spinel formation during the sintering of simulated copper-laden sludge with aluminum-rich ceramic precursors. <i>Environmental Science & Technology</i> , 2011 , 45, 3598-604	10.3	53

220	A metal-free method of generating sulfate radicals through direct interaction of hydroxylamine and peroxymonosulfate: Mechanisms, kinetics, and implications. <i>Chemical Engineering Journal</i> , 2017 , 330, 906-913	14.7	50
219	Phosphorus recovery through adsorption by layered double hydroxide nano-composites and transfer into a struvite-like fertilizer. <i>Water Research</i> , 2018 , 145, 721-730	12.5	50
218	Binding of Mercury Species and Typical Flue Gas Components on ZnS(110). <i>Energy & Fuels</i> , 2017 , 31, 5355-5362	4.1	49
217	Degradation of 1,4-dioxane via controlled generation of radicals by pyrite-activated oxidants: Synergistic effects, role of disulfides, and activation sites. <i>Chemical Engineering Journal</i> , 2018 , 336, 416-426	14.7	49
216	Copper aluminate spinel in the stabilization and detoxification of simulated copper-laden sludge. <i>Chemosphere</i> , 2010 , 80, 375-80	8.4	49
215	Copper slag as a catalyst for mercury oxidation in coal combustion flue gas. <i>Waste Management</i> , 2018 , 74, 253-259	8.6	49
214	Zinc stabilization efficiency of aluminate spinel structure and its leaching behavior. <i>Environmental Science & Technology</i> , 2011 , 45, 10544-50	10.3	48
213	Red mud powders as low-cost and efficient catalysts for persulfate activation: Pathways and reusability of mineralizing sulfadiazine. <i>Separation and Purification Technology</i> , 2016 , 167, 136-145	8.3	48
212	Recycling polyethylene terephthalate wastes as short fibers in Strain-Hardening Cementitious Composites (SHCC). <i>Journal of Hazardous Materials</i> , 2018 , 357, 40-52	12.8	48
211	Enhanced bioleaching efficiency of copper from waste printed circuit board driven by nitrogen-doped carbon nanotubes modified electrode. <i>Chemical Engineering Journal</i> , 2017 , 324, 122-129	14.7	47
210	Activation of Persulfates Using Siderite as a Source of Ferrous Ions: Sulfate Radical Production, Stoichiometric Efficiency, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3624-3631	8.3	47
209	Nickel aluminate spinel formation during sintering of simulated Ni-laden sludge and kaolinite. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 91-99	6	47
208	Effectiveness and Mechanisms of Defluorination of Perfluorinated Alkyl Substances by Calcium Compounds during Waste Thermal Treatment. <i>Environmental Science & Technology</i> , 2015 , 49, 5672-80	10.3	46
207	Sorption performance and mechanism of a sludge-derived char as porous carbon-based hybrid adsorbent for benzene derivatives in aqueous solution. <i>Journal of Hazardous Materials</i> , 2014 , 274, 205-11	12.8	45
206	Enhanced phosphorus availability and heavy metal removal by chlorination during sewage sludge pyrolysis. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121110	12.8	45
205	Adsorption of perfluorinated compounds on thin-film composite polyamide membranes. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 1042-1049	2.9	44
204	Palladium-indium catalyzed reduction of N-nitrosodimethylamine: indium as a promoter metal. <i>Environmental Science & Technology</i> , 2008 , 42, 3040-6	10.3	44
203	Role of Sulfur Trioxide (SO) in Gas-Phase Elemental Mercury Immobilization by Mineral Sulfide. <i>Environmental Science & Technology</i> , 2019 , 53, 3250-3257	10.3	43

202	Facile synthesis of morphology and size-controlled γ -Fe ₂ O ₃ and Fe ₃ O ₄ nano- and microstructures by hydrothermal/solvothermal process: The roles of reaction medium and urea dose. <i>Ceramics International</i> , 2016 , 42, 14793-14804	5.1	43
201	A short-range ordered-disordered transition of a NiOOH/Ni(OH) ₂ pair induces switchable wettability. <i>Nanoscale</i> , 2014 , 6, 15309-15	7.7	42
200	Elemental mercury oxidation over manganese oxide octahedral molecular sieve catalyst at low flue gas temperature. <i>Chemical Engineering Journal</i> , 2019 , 356, 142-150	14.7	42
199	Effect of humic acid on the sorption of perfluorooctane sulfonate (PFOS) and perfluorobutane sulfonate (PFBS) on boehmite. <i>Chemosphere</i> , 2015 , 118, 213-8	8.4	41
198	Nanosized Copper Selenide Functionalized Zeolitic Imidazolate Framework-8 (CuSe/ZIF-8) for Efficient Immobilization of Gas-Phase Elemental Mercury. <i>Advanced Functional Materials</i> , 2019 , 29, 1807191	15.6	40
197	Copper stabilization in beneficial use of waterworks sludge and copper-laden electroplating sludge for ceramic materials. <i>Waste Management</i> , 2014 , 34, 1085-91	8.6	40
196	Accuracy and application of quantitative X-ray diffraction on the precipitation of struvite product. <i>Water Research</i> , 2016 , 90, 9-14	12.5	39
195	Detoxification and immobilization of chromite ore processing residue in spinel-based glass-ceramic. <i>Journal of Hazardous Materials</i> , 2017 , 321, 449-455	12.8	37
194	Enhanced activity of AgMgOTiO ₂ catalyst for photocatalytic conversion of CO ₂ and H ₂ O into CH ₄ . <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8479-8488	6.7	37
193	Double-Barrier mechanism for chromium immobilization: A quantitative study of crystallization and leachability. <i>Journal of Hazardous Materials</i> , 2016 , 311, 246-53	12.8	36
192	Nano-rod Ca-decorated sludge derived carbon for removal of phosphorus. <i>Environmental Pollution</i> , 2018 , 233, 698-705	9.3	36
191	Quantitative X-ray Diffraction (QXRD) analysis for revealing thermal transformations of red mud. <i>Chemosphere</i> , 2015 , 131, 171-7	8.4	35
190	Cadmium Stabilization Efficiency and Leachability by CdAl ₄ O ₇ Monoclinic Structure. <i>Environmental Science & Technology</i> , 2015 , 49, 14452-9	10.3	35
189	Insights into the selective hydrogenation of levulinic acid to γ -valerolactone using supported mono- and bimetallic catalysts. <i>Journal of Molecular Catalysis A</i> , 2016 , 417, 145-152		35
188	Oxidative decomposition of perfluorooctanesulfonate in water by permanganate. <i>Separation and Purification Technology</i> , 2012 , 87, 95-100	8.3	35
187	Coexistence of enhanced Hg ⁰ oxidation and induced Hg ²⁺ reduction on CuO/TiO ₂ catalyst in the presence of NO and NH ₃ . <i>Chemical Engineering Journal</i> , 2017 , 330, 1248-1254	14.7	35
186	Dual Roles of Nano-Sulfide in Efficient Removal of Elemental Mercury from Coal Combustion Flue Gas within a Wide Temperature Range. <i>Environmental Science & Technology</i> , 2018 , 52, 12926-12933	10.3	35
185	Yttrium-doped iron oxide magnetic adsorbent for enhancement in arsenic removal and ease in separation after applications. <i>Journal of Colloid and Interface Science</i> , 2018 , 521, 252-260	9.3	34

184	Influence of support structure on the permeation behavior of polyetherimide-derived carbon molecular sieve composite membrane. <i>Journal of Membrane Science</i> , 2012 , 405-406, 250-260	9.6	34
183	CuO-promoted degradation of sulfamethoxazole by FeO-catalyzed peroxymonosulfate under circumneutral conditions: synergistic effect, Cu/Fe ratios, and mechanisms. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 1-11	2.6	33
182	Degradation mechanisms of ofloxacin and cefazolin using peroxymonosulfate activated by reduced graphene oxide-CoFe ₂ O ₄ composites. <i>Chemical Engineering Journal</i> , 2020 , 383, 123056	14.7	33
181	Peroxymonosulfate activation through LED-induced ZnFe ₂ O ₄ for levofloxacin degradation. <i>Chemical Engineering Journal</i> , 2021 , 417, 129225	14.7	33
180	Catalytic effect of graphene in bioleaching copper from waste printed circuit boards by <i>Acidithiobacillus ferrooxidans</i> . <i>Hydrometallurgy</i> , 2017 , 171, 172-178	4	32
179	Adsorption and Thermal Stabilization of Pb ²⁺ and Cu ²⁺ by Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8767-8773	3.9	32
178	Amorphous Molybdenum Selenide Nanosheet as an Efficient Trap for the Permanent Sequestration of Vapor-Phase Elemental Mercury. <i>Advanced Science</i> , 2019 , 6, 1901410	13.6	31
177	Lead glass-ceramics produced from the beneficial use of waterworks sludge. <i>Water Research</i> , 2013 , 47, 1353-60	12.5	31
176	Factors and mechanisms that influence the reactivity of trivalent copper: A novel oxidant for selective degradation of antibiotics. <i>Water Research</i> , 2019 , 149, 1-8	12.5	31
175	Extraction of metallic lead from cathode ray tube (CRT) funnel glass by thermal reduction with metallic iron. <i>Environmental Science & Technology</i> , 2013 , 47, 9972-8	10.3	30
174	Influence of cations on the partition behavior of perfluoroheptanoate (PFHpA) and perfluorohexanesulfonate (PFHxS) on wastewater sludge. <i>Chemosphere</i> , 2015 , 131, 178-83	8.4	29
173	Ferric iron enhanced chloramphenicol oxidation in pyrite (FeS ₂) induced Fenton-like reactions. <i>Separation and Purification Technology</i> , 2015 , 154, 60-67	8.3	29
172	Green and facile synthesis of cobalt-based metal-organic frameworks for the efficient removal of Congo red from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2020 , 578, 500-509	9.3	29
171	Selenide functionalized natural mineral sulfides as efficient sorbents for elemental mercury capture from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2020 , 398, 125611	14.7	28
170	NH ₃ inhibits mercury oxidation over low-temperature MnOx/TiO ₂ SCR catalyst. <i>Fuel Processing Technology</i> , 2018 , 176, 124-130	7.2	27
169	Solvent-free hydrothermal synthesis of gamma-aluminum oxide nanoparticles with selective adsorption of Congo red. <i>Journal of Colloid and Interface Science</i> , 2019 , 536, 180-188	9.3	27
168	Surface polarity control in ZnO films deposited by pulsed laser deposition. <i>Applied Surface Science</i> , 2019 , 483, 1129-1135	6.7	26
167	Incorporation of Cadmium and Nickel into Ferrite Spinel Solid Solution: X-ray Diffraction and X-ray Absorption Fine Structure Analyses. <i>Environmental Science & Technology</i> , 2018 , 52, 775-782	10.3	26

166	Effects of flue-gas parameters on low temperature NO reduction over a Cu-promoted CeO ₂ /TiO ₂ catalyst. <i>Fuel</i> , 2015 , 159, 876-882	7.1	24
165	Hydrothermally synthesized Cu _x O as a catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3627-3632	13	24
164	The influence of cobalt doping on photocatalytic nano-titania: Crystal chemistry and amorphicity. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2905-2915	3.3	24
163	Continuous-Flow Synthesis of Supported Magnetic Iron Oxide Nanoparticles for Efficient Isoeugenol Conversion into Vanillin. <i>ChemSusChem</i> , 2018 , 11, 389-396	8.3	24
162	Copper sludge from printed circuit board production/recycling for ceramic materials: a quantitative analysis of copper transformation and immobilization. <i>Environmental Science & Technology</i> , 2013 , 47, 8609-15	10.3	23
161	Influence of calcium hydroxide on the fate of perfluorooctanesulfonate under thermal conditions. <i>Journal of Hazardous Materials</i> , 2011 , 192, 1067-71	12.8	23
160	Activation of peroxymonosulfate by Fe ₀ @Fe ₃ O ₄ core-shell nanowires for sulfate radical generation: Electron transfer and transformation products. <i>Separation and Purification Technology</i> , 2020 , 247, 116942	8.3	22
159	Solvent-Switching Gelation and Orange-Red Emission of Ultrasmall Copper Nanoclusters. <i>ChemPhysChem</i> , 2016 , 17, 225-31	3.2	22
158	Molybdenum Disulfide-Coated Lithium Vanadium Fluorophosphate Anode: Experiments and First-Principles Calculations. <i>ChemSusChem</i> , 2016 , 9, 2122-8	8.3	22
157	Synergistic effect of HCl and NO in elemental mercury catalytic oxidation over La ₂ O ₃ -TiO ₂ catalyst. <i>Fuel</i> , 2018 , 215, 232-238	7.1	21
156	Cave-embedded porous Mn ₂ O ₃ hollow microsphere as anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2017 , 247, 795-802	6.7	21
155	Development of selenized magnetite (Fe ₃ O ₄ /Se _y) as an efficient and recyclable trap for elemental mercury sequestration from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2020 , 394, 125022	14.7	20
154	Effect of Plasma Treatment on Native Defects and Photocatalytic Activities of Zinc Oxide Tetrapods. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22760-22767	3.8	20
153	In situ synthesis of Cu _x O/SnO _x @CNT and Cu _x O/SnO _x @SnO ₂ /CNT nanocomposite anodes for lithium ion batteries by a simple chemical treatment process. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13478-86	9.5	20
152	Insights into the Microwave-Assisted Mild Deconstruction of Lignin Feedstocks Using NiO-Containing ZSM-5 Zeolites. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4305-4313	8.3	19
151	Effect of molybdenum substitution on electrochemical performance of Li[Li _{0.2} Mn _{0.54} Co _{0.13} Ni _{0.13}]O ₂ cathode material. <i>Ceramics International</i> , 2017 , 43, 14836-14841	5.1	19
150	Lead removal from water - dependence on the form of carbon and surface functionalization.. <i>RSC Advances</i> , 2018 , 8, 18355-18362	3.7	19
149	The effect of surface treatments on dental zirconia: An analysis of biaxial flexural strength, surface roughness and phase transformation. <i>Journal of Dentistry</i> , 2018 , 75, 65-73	4.8	19

148	Adsorption Behavior of Perfluorochemicals (PFCs) on Boehmite: Influence of Solution Chemistry. <i>Procedia Environmental Sciences</i> , 2013 , 18, 106-113		18
147	Highly efficient and recyclable graphene oxide-magnetite composites for isatin mineralization. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 302-309	5.7	18
146	Phase transformation and its role in stabilizing simulated lead-laden sludge in aluminum-rich ceramics. <i>Water Research</i> , 2011 , 45, 5123-9	12.5	18
145	Recovery of phosphorus rich krill shell biowaste for uranium immobilization: A study of sorption behavior, surface reaction, and phase transformation. <i>Environmental Pollution</i> , 2018 , 243, 630-636	9.3	18
144	Formation of lead-aluminate ceramics: Reaction mechanisms in immobilizing the simulated lead sludge. <i>Chemosphere</i> , 2015 , 138, 156-63	8.4	17
143	Cubic and tetragonal ferrite crystal structures for copper ion immobilization in an iron-rich ceramic matrix. <i>RSC Advances</i> , 2016 , 6, 28579-28585	3.7	17
142	Photocatalytic hydrogen generation from water under visible light using core/shell nano-catalysts. <i>Water Science and Technology</i> , 2010 , 61, 2303-8	2.2	17
141	Quantification of the lateral detachment force for bacterial cells using atomic force microscope and centrifugation. <i>Ultramicroscopy</i> , 2011 , 111, 131-9	3.1	17
140	Fabrication of reactive flat-sheet ceramic membranes for oxidative degradation of ofloxacin by peroxymonosulfate. <i>Journal of Membrane Science</i> , 2020 , 611, 118302	9.6	16
139	Synthesis of submicron lead oxide particles from the simulated spent lead paste for battery anodes. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 101-107	5.7	16
138	Weakening mechanisms of the serpulid tube in a high-CO ₂ world. <i>Environmental Science & Technology</i> , 2014 , 48, 14158-67	10.3	16
137	Phase transformation during the sintering of Alumina and the simulated Ni-laden waste sludge. <i>Ceramics International</i> , 2012 , 38, 1879-1886	5.1	16
136	Temperature dependent effects of elevated CO ₂ on shell composition and mechanical properties of <i>Hydrobia ulvae</i> : insights from a multiple stressor experiment. <i>PLoS ONE</i> , 2013 , 8, e78945	3.7	16
135	Environmental-friendly preparation of Ni ₂ Co layered double hydroxide (LDH) hierarchical nanoarrays for efficient removing uranium (VI). <i>Journal of Cleaner Production</i> , 2021 , 308, 127384	10.3	16
134	Amorphous molybdenum selenide intercalated magnetite as a recyclable trap for the effective sequestration of elemental mercury. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14955-14965	13	16
133	Study on the pyrolysis products of two different hardwood lignins in the presence of NiO contained-zeolites. <i>Biomass and Bioenergy</i> , 2017 , 103, 29-34	5.3	15
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