Kaimin Shih

List of Publications by Year in Descending Order

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	Enhanced cross-flow filtration with flat-sheet ceramic membranes by titanium-based coagulation for membrane fouling control. *Frontiers of Environmental Science and Engineering*, **2022**, 16, 1	5.8	0
272	Acceleration of traces of Fe3+-activated peroxymonosulfate by natural pyrite: A novel cocatalyst for improving Fenton-like processes. *Chemical Engineering Journal*, **2022**, 435, 134893	14.7	1
271	Facile pathway towards crystallinity adjustment and performance enhancement of copper selenide for vapor-phase elemental mercury sequestration. *Chemical Engineering Journal*, **2022**, 430, 132811	14.7	0
270	Topological tuning of Two-Dimensional polytriazine imides by halide anions for selective lead removal from wastewater. *Separation and Purification Technology*, **2022**, 278, 119595	8.3	1
269	Incorporation of lead into pyromorphite: Effect of anion replacement on lead stabilization.. *Waste Management*, **2022**, 143, 232-241	8.6	1
268	Activation of Ozone by Peroxymonosulfate for Selective Degradation of 1,4-Dioxane: Limited Water Matrices Effects. *Journal of Hazardous Materials*, **2022**, 129223	12.8	1
267	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	8.3	5
266	Develop spinel structure and quantify phase transformation for nickel stabilization in electroplating sludge. *Waste Management*, **2021**, 131, 286-293	8.6	1
265	Environmental-friendly preparation of Ni□Co layered double hydroxide (LDH) hierarchical nanoarrays for efficient removing uranium (VI). *Journal of Cleaner Production*, **2021**, 308, 127384	10.3	16
264	Surface water treatment benefits from the presence of algae: Influence of algae on the coagulation behavior of polytitanium chloride. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	5
263	Reduction of oxidized mercury over NOx selective catalytic reduction catalysts: A review. *Chemical Engineering Journal*, **2021**, 421, 127745	14.7	4
262	Higher valency ion substitution causing different fluorite-derived structures in CaZr1-xNdxTi2-xNbxO7 (0.05 □x □1) solid solution. *Ceramics International*, **2021**, 47, 2694-2704	5.1	
261	Light irradiation inhibits mercury adsorption by mineral sulfide sorbent. *Fuel*, **2021**, 288, 119663	7.1	4
260	Advances in Cadmium Detoxification/Stabilization by Sintering with Ceramic Matrices. *Handbook of Environmental Engineering*, **2021**, 299-323		1
259	High-Efficiency Capture and Recovery of Anionic Perfluoroalkyl Substances from Water Using PVA/PDDA Nanofibrous Membranes with Near-Zero Energy Consumption. *Environmental Science and Technology Letters*, **2021**, 8, 350-355	11	4
258	Peroxymonosulfate activation through LED-induced ZnFe2O4 for levofloxacin degradation. *Chemical Engineering Journal*, **2021**, 417, 129225	14.7	33
257	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	14.7	5

256	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	10.3	5
255	Phosphorus and humic acid extraction from fermentation liquor of ferric phosphate sludge via layered double hydroxides: Efficiency and interaction mechanism. *Journal of Cleaner Production*, **2021**, 319, 128664	10.3	0
254	Activation of peroxymonosulfate by molybdenum disulfide-mediated traces of Fe(III) for sulfadiazine degradation. *Chemosphere*, **2021**, 283, 131212	8.4	7
253	Activation of dissolved molecular oxygen by ascorbic acid-mediated circulation of copper(II): Applications and limitations. *Separation and Purification Technology*, **2021**, 275, 119186	8.3	1
252	Pb Stabilization by a New Chemically Durable Orthophosphate Phase: Insights into the Molecular Mechanism with X-ray Structural Analysis. *Environmental Science & Technology*, **2020**, 54, 6937-6946	10.3	3
251	Selenide functionalized natural mineral sulfides as efficient sorbents for elemental mercury capture from coal combustion flue gas. *Chemical Engineering Journal*, **2020**, 398, 125611	14.7	28
250	Green and facile synthesis of cobalt-based metal-organic frameworks for the efficient removal of Congo red from aqueous solution. *Journal of Colloid and Interface Science*, **2020**, 578, 500-509	9.3	29
249	In-situ deformation modulus of rust in concrete under different levels of confinement and rates of corrosion. *Construction and Building Materials*, **2020**, 255, 119369	6.7	4
248	Secondary effluent purification towards reclaimed water production through the hybrid post-coagulation and membrane distillation technology: A preliminary test. *Journal of Cleaner Production*, **2020**, 271, 121797	10.3	9
247	Fabrication of reactive flat-sheet ceramic membranes for oxidative degradation of ofloxacin by peroxymonosulfate. *Journal of Membrane Science*, **2020**, 611, 118302	9.6	16
246	The adverse effects of tungsten carbide grinding on the strength of dental zirconia. *Dental Materials*, **2020**, 36, 560-569	5.7	3
245	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	8.3	22
244	Development of selenized magnetite (Fe3O4□Sey) as an efficient and recyclable trap for elemental mercury sequestration from coal combustion flue gas. *Chemical Engineering Journal*, **2020**, 394, 125022	14.7	20
243	Sulfate radical-induced destruction of emerging contaminants using traces of cobalt ions as catalysts. *Chemosphere*, **2020**, 256, 127061	8.4	12
242	New Barium Vanadate BaxV2O5 (x □0.16) for Fast Lithium Intercalation: Lower Symmetry for Higher Flexibility and Electrochemical Durability. *Small Methods*, **2020**, 4, 1900585	12.8	5
241	Nonradical degradation of microorganic pollutants by magnetic N-doped graphitic carbon: A complement to the unactivated peroxymonosulfate. *Chemical Engineering Journal*, **2020**, 392, 123724	14.7	14
240	Insight into flower-like greigite-based peroxydisulfate activation for effective bisphenol a abatement: Performance and electron transfer mechanism. *Chemical Engineering Journal*, **2020**, 391, 123558	14.7	9
239	Reevaluating the efficacy of moderate annealing in nuclear waste vitrification for sustainable high-level waste management. *Journal of Cleaner Production*, **2020**, 268, 122155	10.3	5

238	Toward an Understanding of Fundamentals Governing the Elemental Mercury Sequestration by Metal Chalcogenides. *Environmental Science & Technology*, **2020**, 54, 9672-9680	10.3	12
237	Density Functional Theory Study of Elemental Mercury Immobilization on CuSe(001) Surface: Reaction Pathway and Effect of Typical Flue Gas Components. *Industrial & Engineering Chemistry Research*, **2020**, 59, 13603-13612	3.9	6
236	Advances in magnetically recyclable remediators for elemental mercury degradation in coal combustion flue gas. *Journal of Materials Chemistry A*, **2020**, 8, 18624-18650	13	5
235	Temperature and salinity jointly drive the toxicity of zinc oxide nanoparticles: a challenge to environmental risk assessment under global climate change. *Environmental Science: Nano*, **2020**, 7, 2995-3006	7.1	7
234	Uranium extraction using hydroxyapatite recovered from phosphorus containing wastewater. *Journal of Hazardous Materials*, **2020**, 382, 120784	12.8	56
233	Enhanced phosphorus availability and heavy metal removal by chlorination during sewage sludge pyrolysis. *Journal of Hazardous Materials*, **2020**, 382, 121110	12.8	45
232	Degradation mechanisms of ofloxacin and cefazolin using peroxymonosulfate activated by reduced graphene oxide-CoFe2O4 composites. *Chemical Engineering Journal*, **2020**, 383, 123056	14.7	33
231	Synchrotron x-ray spectroscopy investigation of the Ca1−xLnxZrTi2−x(Al, Fe)xO7 zirconolite ceramics (Ln = La, Nd, Gd, Ho, Yb). *Journal of the American Ceramic Society*, **2020**, 103, 1463-1475	3.8	6
230	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	13	16
229	Spent Coffee Grounds-Templated Magnetic Nanocatalysts for Mild Oxidations. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 17030-17038	8.3	10
228	Uranium(IV) incorporation into inverse spinel magnetite ((hbox {FeFe}_{2}hbox {O}_{4})): A charge-balanced substitution case analysis **2019**, 93, 1		
227	Imparting water repellency in completely decomposed granite with Tung oil. *Journal of Cleaner Production*, **2019**, 230, 1316-1328	10.3	11
226	Carbonization of sewage sludge as an adsorbent for organic pollutants **2019**, 475-501		
225	Industrial sludge for ceramic products and its benefit for metal stabilization **2019**, 253-293		1
224	Stabilization of cadmium in industrial sludge□eneration of crystalline products **2019**, 503-524		2
223	Ultrasound assisted zero valent iron corrosion for peroxymonosulfate activation for Rhodamine-B degradation. *Chemosphere*, **2019**, 228, 412-417	8.4	76
222	Surface polarity control in ZnO films deposited by pulsed laser deposition. *Applied Surface Science*, **2019**, 483, 1129-1135	6.7	26
221	Evaluation of the effectiveness of Cd stabilization by a low-temperature sintering process with kaolinite/mullite addition. *Waste Management*, **2019**, 87, 814-824	8.6	4

220	Role of Sulfur Trioxide (SO) in Gas-Phase Elemental Mercury Immobilization by Mineral Sulfide. *Environmental Science & Technology*, **2019**, 53, 3250-3257	10.3	43
219	Nanosized Copper Selenide Functionalized Zeolitic Imidazolate Framework-8 (CuSe/ZIF-8) for Efficient Immobilization of Gas-Phase Elemental Mercury. *Advanced Functional Materials*, **2019**, 29, 1807191	15.6	40
218	Biotechnological Initiatives in E-waste Management: Recycling and Business Opportunities **2019**, 201-223		0
217	Evaluation on the stabilization of Zn/Ni/Cu in spinel forms: Low-cost red mud as an effective precursor. *Environmental Pollution*, **2019**, 249, 144-151	9.3	10
216	Amorphous Molybdenum Selenide Nanosheet as an Efficient Trap for the Permanent Sequestration of Vapor-Phase Elemental Mercury. *Advanced Science*, **2019**, 6, 1901410	13.6	31
215	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	10.3	60
214	Recoverable impacts of ocean acidification on the tubeworm, : implication for biofouling in future coastal oceans. *Biofouling*, **2019**, 35, 945-957	3.3	2
213	Ultra-low remanence and weak magnetic agglomeration of superparamagnetic magnetite nanoparticles caused by high magnetic moment Tb3+ doping. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 20970-20978	2.1	2
212	Unraveling the Structure of the Poly(triazine imide)/LiCl Photocatalyst: Cooperation of Facile Syntheses and a Low-Temperature Synchrotron Approach. *Inorganic Chemistry*, **2019**, 58, 15880-15888	5.1	9
211	Quantitative X-Ray Diffraction Technique for Waste Beneficial Use Opportunities. *Lecture Notes in Civil Engineering*, **2019**, 43-50	0.3	
210	Strong synergy in the activation of peroxymonosulfate with Cu-Fe spinel/□Al2O3 composites for atrazine degradation. *HKIE Transactions*, **2019**, 26, 55-62	2.9	
209	Effectively immobilizing lead through a melanotekite structure using low-temperature glass-ceramic sintering. *Dalton Transactions*, **2019**, 48, 3998-4006	4.3	4
208	Highly crystalline lithium chloride-intercalated graphitic carbon nitride hollow nanotubes for effective lead removal. *Environmental Science: Nano*, **2019**, 6, 3324-3335	7.1	12
207	Elemental mercury oxidation over manganese oxide octahedral molecular sieve catalyst at low flue gas temperature. *Chemical Engineering Journal*, **2019**, 356, 142-150	14.7	42
206	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	9.3	27
205	Factors and mechanisms that influence the reactivity of trivalent copper: A novel oxidant for selective degradation of antibiotics. *Water Research*, **2019**, 149, 1-8	12.5	31
204	Formation of lead ferrites for immobilizing hazardous lead into iron-rich ceramic matrix. *Chemosphere*, **2019**, 214, 239-249	8.4	5
203	Tensile performance of sustainable Strain-Hardening Cementitious Composites with hybrid PVA and recycled PET fibers. *Cement and Concrete Research*, **2018**, 107, 110-123	10.3	106

202	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	7.1	53
201	Cadmium stabilization via silicates formation: Efficiency, reaction routes and leaching behavior of products. *Environmental Pollution*, **2018**, 239, 571-578	9.3	8
200	Lead extraction from Cathode Ray Tube (CRT) funnel glass: Reaction mechanisms in thermal reduction with addition of carbon (C). *Waste Management*, **2018**, 76, 671-678	8.6	6
199	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	9.3	34
198	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	8.3	47
197	Combined Fe2O3 and CaCO3 Additives To Enhance the Immobilization of Pb in Cathode Ray Tube Funnel Glass. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 3669-3675	8.3	7
196	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	14.7	49
195	Synergistic effect of HCl and NO in elemental mercury catalytic oxidation over La2O3-TiO2 catalyst. *Fuel*, **2018**, 215, 232-238	7.1	21
194	Adsorption of phosphorus by calcium-flour biochar: Isotherm, kinetic and transformation studies. *Chemosphere*, **2018**, 195, 666-672	8.4	101
193	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	10.3	26
192	Enhanced selective photocatalytic reduction of CO2 to CH4 over plasmonic Au modified g-C3N4 photocatalyst under UV□is light irradiation. *Applied Surface Science*, **2018**, 439, 552-559	6.7	93
191	Facile synthesis of highly reactive and stable Fe-doped g-CN composites for peroxymonosulfate activation: A novel nonradical oxidation process. *Journal of Hazardous Materials*, **2018**, 354, 63-71	12.8	102
190	CuO-promoted degradation of sulfamethoxazole by □FeO-catalyzed peroxymonosulfate under circumneutral conditions: synergistic effect, Cu/Fe ratios, and mechanisms. *Environmental Technology (United Kingdom)*, **2018**, 39, 1-11	2.6	33
189	Effect of crystal size on zinc stabilization in aluminum-rich ceramic matrix. *Journal of Material Cycles and Waste Management*, **2018**, 20, 2110-2116	3.4	2
188	NH3 inhibits mercury oxidation over low-temperature MnOx/TiO2 SCR catalyst. *Fuel Processing Technology*, **2018**, 176, 124-130	7.2	27
187	Crystallization pathways in glass-ceramics by sintering cathode ray tube (CRT) glass with kaolin-based precursors. *Journal of the European Ceramic Society*, **2018**, 38, 5184-5191	6	5
186	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	4	91
185	Supported palladium nanoparticles as highly efficient catalysts for radical production: Support-dependent synergistic effects. *Chemosphere*, **2018**, 207, 27-32	8.4	3

184	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	5.6	72
183	Copper slag as a catalyst for mercury oxidation in coal combustion flue gas. *Waste Management*, **2018**, 74, 253-259	8.6	49
182	Li3V(MoO4)3 as a novel electrode material with good lithium storage properties and improved initial coulombic efficiency. *Nano Energy*, **2018**, 44, 272-278	17.1	104
181	Nano-rod Ca-decorated sludge derived carbon for removal of phosphorus. *Environmental Pollution*, **2018**, 233, 698-705	9.3	36
180	Continuous-Flow Synthesis of Supported Magnetic Iron Oxide Nanoparticles for Efficient Isoeugenol Conversion into Vanillin. *ChemSusChem*, **2018**, 11, 389-396	8.3	24
179	Immobilization of Lead in Cathode Ray Tube Funnel Glass with Beneficial Use of Red Mud for Potential Application in Ceramic Industry. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14213-14220	8.3	3
178	Synergistic effects of Ln and Fe Co-Doping on phase evolution of Ca1-Ln ZrTi2-Fe O7 (Ln= La, Nd, Gd, Ho, Yb) ceramics. *Journal of Nuclear Materials*, **2018**, 511, 428-437	3.3	4
177	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	10.3	35
176	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	9.3	18
175	Accelerated phosphorus recovery from aqueous solution onto decorated sewage sludge carbon. *Scientific Reports*, **2018**, 8, 13421	4.9	8
174	Phosphorus recovery through adsorption by layered double hydroxide nano-composites and transfer into a struvite-like fertilizer. *Water Research*, **2018**, 145, 721-730	12.5	50
173	Recycling polyethylene terephthalate wastes as short fibers in Strain-Hardening Cementitious Composites (SHCC). *Journal of Hazardous Materials*, **2018**, 357, 40-52	12.8	48
172	Effects of ionic radius on phase evolution in Ln-Al co-doped Ca1-xLnxZrTi2-xAlxO7 (Ln = La, Nd, Gd, Ho, Yb) solid solutions. *Ceramics International*, **2018**, 44, 15124-15132	5.1	11
171	Lead removal from water - dependence on the form of carbon and surface functionalization.. *RSC Advances*, **2018**, 8, 18355-18362	3.7	19
170	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	4.8	19
169	Synthesis of FC-supported Fe through a carbothermal process for immobilizing uranium. *Journal of Hazardous Materials*, **2018**, 357, 168-174	12.8	15
168	Combined Quantitative X-ray Diffraction, Scanning Electron Microscopy, and Transmission Electron Microscopy Investigations of Crystal Evolution in CaOAl2O3SiO2TiO2ZrO2Nd2O3Na2O System. *Crystal Growth and Design*, **2017**, 17, 1079-1087	3.5	12
167	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	6.7	82

166	Rapid Selective Circumneutral Degradation of Phenolic Pollutants Using Peroxymonosulfate-Iodide Metal-Free Oxidation: Role of Iodine Atoms. *Environmental Science & Technology*, **2017**, 51, 2312-2320	10.3	61
165	Effectiveness of municipal sewage sludge (MSS) ash application on the stabilization of Pb-Zn sludge from mining activities. *Journal of Cleaner Production*, **2017**, 151, 145-151	10.3	7
164	Mini-Sized Carbon Nitride Nanosheets with Double Excitation- and pH-Dependent Fluorescence Behaviors for Two-Photon Cell Imaging. *Chemistry - an Asian Journal*, **2017**, 12, 835-840	4.5	5
163	Template-free synthesis of hierarchical hollow V2O5 microspheres with highly stable lithium storage capacity. *RSC Advances*, **2017**, 7, 2480-2485	3.7	6
162	Degradation of contaminants by Cu-activated molecular oxygen in aqueous solutions: Evidence for cupryl species (Cu). *Journal of Hazardous Materials*, **2017**, 331, 81-87	12.8	59
161	Matrix design for waterproof Engineered Cementitious Composites (ECCs). *Construction and Building Materials*, **2017**, 139, 438-446	6.7	62
160	Surface-bound sulfate radical-dominated degradation of 1,4-dioxane by alumina-supported palladium (Pd/AlO) catalyzed peroxymonosulfate. *Water Research*, **2017**, 120, 12-21	12.5	108
159	Transformation of hazardous lead into lead ferrite ceramics: Crystal structures and their role in lead leaching. *Journal of Hazardous Materials*, **2017**, 336, 139-145	12.8	12
158	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	14.7	47
157	Catalytic effect of graphene in bioleaching copper from waste printed circuit boards by Acidithiobacillus ferrooxidans. *Hydrometallurgy*, **2017**, 171, 172-178	4	32
156	Study on the pyrolysis products of two different hardwood lignins in the presence of NiO contained-zeolites. *Biomass and Bioenergy*, **2017**, 103, 29-34	5.3	15
155	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	14.7	143
154	Binding of Mercury Species and Typical Flue Gas Components on ZnS(110). *Energy & Fuels*, **2017**, 31, 5355-5362	4.1	49
153	Utilisation of incinerated sewage sludge ash as a matrix for cadmium stabilisation. *HKIE Transactions*, **2017**, 24, 35-41	2.9	1
152	Stabilizing cadmium into aluminate and ferrite structures: Effectiveness and leaching behavior. *Journal of Environmental Management*, **2017**, 187, 340-346	7.9	6
151	Metallurgy Inspired Formation of Homogeneous Al2O3 Coating Layer To Improve the Electrochemical Properties of LiNi0.8Co0.1Mn0.1O2 Cathode Material. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 10199-10205	8.3	96
150	Annealing-Induced Antibacterial Activity in TiO2 under Ambient Light. *Journal of Physical Chemistry C*, **2017**, 121, 24060-24068	3.8	9
149	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	9.6	58

148	Producing sawdust derived activated carbon by co-calcinations with limestone for enhanced Acid Orange II adsorption. *Journal of Cleaner Production*, **2017**, 168, 22-29	10.3	14
147	Graphene-oxide-wrapped ZnMnO as a high performance lithium-ion battery anode. *Nanotechnology* , **2017**, 28, 455401	3.4	11
146	Cave-embedded porous Mn2O3 hollow microsphere as anode material for lithium ion batteries. *Electrochimica Acta*, **2017**, 247, 795-802	6.7	21
145	Effect of molybdenum substitution on electrochemical performance of Li[Li0.2Mn0.54Co0.13Ni0.13]O2 cathode material. *Ceramics International*, **2017**, 43, 14836-14841	5.1	19
144	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	14.7	50
143	Quantification of the Partitioning Ratio of Minor Actinide Surrogates between Zirconolite and Glass in Glass-Ceramic for Nuclear Waste Disposal. *Inorganic Chemistry*, **2017**, 56, 9913-9921	5.1	10
142	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	14.7	35
141	Response to Comment on "Rapid Selective Circumneutral Degradation of Phenolic Pollutants Using Peroxymonosulfate-Iodide Metal-Free Oxidation: Role of Iodine Atoms". *Environmental Science & Technology*, **2017**, 51, 9412-9413	10.3	2
140	Synthesis of Lead-Free Perovskite Films by Combinatorial Evaporation: Fast Processes for Screening Different Precursor Combinations. *Chemistry of Materials*, **2017**, 29, 9946-9953	9.6	9
139	Accurate construction of a hierarchical nickel–cobalt oxide multishell yolk–shell structure with large and ultrafast lithium storage capability. *Journal of Materials Chemistry A*, **2017**, 5, 14996-15001	13	94
138	Highly efficient and recyclable graphene oxide-magnetite composites for isatin mineralization. *Journal of Alloys and Compounds*, **2017**, 725, 302-309	5.7	18
137	Surface localization of the Er-related optical active centers in Er doped zinc oxide films. *Journal of Applied Physics*, **2017**, 121, 235701	2.5	4
136	Effect of Nitrogen Oxides on Elemental Mercury Removal by Nanosized Mineral Sulfide. *Environmental Science & Technology*, **2017**, 51, 8530-8536	10.3	62
135	Formation and leaching behavior of ferrite spinel for cadmium stabilization. *Chemical Engineering Science*, **2017**, 158, 287-293	4.4	11
134	Removal of perfluorooctane sulfonate by a gravity-driven membrane: Filtration performance and regeneration behavior. *Separation and Purification Technology*, **2017**, 174, 136-144	8.3	14
133	Synthesis of submicron lead oxide particles from the simulated spent lead paste for battery anodes. *Journal of Alloys and Compounds*, **2017**, 690, 101-107	5.7	16
132	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	5.5	60
131	Detoxification and immobilization of chromite ore processing residue in spinel-based glass-ceramic. *Journal of Hazardous Materials*, **2017**, 321, 449-455	12.8	37

130	Optimization of preparation procedure of liquid warm mix additive modified asphalt rubber. *Journal of Cleaner Production*, **2017**, 141, 336-345	10.3	134
129	Stabilization of Cadmium in Waste Incineration Residues by Aluminum/Iron-Rich Materials **2017**, 239-254		
128	Preparation of hydrophilic activated carbon through alkaline hydrolysis of ester for effective water-vapor adsorption. *Separation Science and Technology*, **2016**, 51, 193-201	2.5	3
127	Treatment and Use of Ashes from Solid Waste Processing **2016**, 549-576		
126	Development of Nano-Sulfide Sorbent for Efficient Removal of Elemental Mercury from Coal Combustion Fuel Gas. *Environmental Science & Technology*, **2016**, 50, 9551-7	10.3	176
125	Thermodynamic selectivity of functional agents on zeolite for sodium dodecyl sulfate sequestration. *Journal of Hazardous Materials*, **2016**, 318, 41-47	12.8	3
124	Encapsulated perovskite based photovoltaics devices with high stability. *MRS Advances*, **2016**, 1, 3191-3198	0.7	
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	8.3	19
122	Solvent-Switching Gelation and Orange-Red Emission of Ultrasmall Copper Nanoclusters. *ChemPhysChem*, **2016**, 17, 225-31	3.2	22
121	Is Excess PbI2 Beneficial for Perovskite Solar Cell Performance?. *Advanced Energy Materials*, **2016**, 6, 1502206	21.8	226
120	Facile synthesis, characterization, and electrochemical performance of multi-scale AgVO3 particles. *Journal of Alloys and Compounds*, **2016**, 674, 56-62	5.7	8
119	Accuracy and application of quantitative X-ray diffraction on the precipitation of struvite product. *Water Research*, **2016**, 90, 9-14	12.5	39
118	Cubic and tetragonal ferrite crystal structures for copper ion immobilization in an iron-rich ceramic matrix. *RSC Advances*, **2016**, 6, 28579-28585	3.7	17
117	Sulfate Radical-Mediated Degradation of Sulfadiazine by CuFeO2 Rhombohedral Crystal-Catalyzed Peroxymonosulfate: Synergistic Effects and Mechanisms. *Environmental Science & Technology*, **2016**, 50, 3119-27	10.3	395
116	Insights into the selective hydrogenation of levulinic acid to γ-valerolactone using supported mono- and bimetallic catalysts. *Journal of Molecular Catalysis A*, **2016**, 417, 145-152		35
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114	Thermal Behavior of Red Mud and Its Beneficial Use in Glass-Ceramic Production **2016**, 525-542		
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