

Shogo Kumagai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

212
papers

4,117
citations

33
h-index

50
g-index

216
ext. papers

4,990
ext. citations

5.5
avg, IF

6.01
L-index

#	Paper	IF	Citations
212	Study of dynamics and mechanism of HCl, SO ₂ , or NO removal by MnO ₂ /MgAl layered double hydroxide. <i>Inorganic Chemistry Communication</i> , 2022 , 135, 109108	3.1	2
211	An integrated utilization strategy of printed circuit boards and waste tire by fast co-pyrolysis: Value-added products recovery and heteroatoms transformation.. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128420	12.8	2
210	Exhaust gas treatment using MnO ₂ /MgAl layered double hydroxide: Assessment of its mixed gas removal performance and regeneration. <i>Chemical Engineering Research and Design</i> , 2022 , 178, 602-608	5.5	0
209	Bench-scale PVC swelling and rod milling of waste wire harnesses for recovery of Cu, PVC, and plasticizers. <i>Journal of Material Cycles and Waste Management</i> , 2022 , 24, 12	3.4	
208	Thermal decomposition behavior of MnO ₂ /Mg-Al layered double hydroxide after removal and recovery of acid gas. <i>Results in Chemistry</i> , 2022 , 4, 100310	2.1	
207	Highly immunogenic cancer cells require activation of the WNT pathway for immunological escape. <i>Science Immunology</i> , 2021 , 6, eabc6424	28	6
206	Sustainable Advance of Cl Recovery from Polyvinyl Chloride Waste Based on Experiment, Simulation, and Ex Ante Life-Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 14112-14123	8.3	0
205	Continuous treatment of abandoned mine wastewater containing As and Fe using MgAl layered double hydroxides with flocculation. <i>International Journal of Environmental Science and Technology</i> , 2021 , 18, 4037	3.3	2
204	Quantification of Cellulose Pyrolyzates via a Tube Reactor and a Pyrolyzer-Gas Chromatograph/Flame Ionization Detector-Based System. <i>ACS Omega</i> , 2021 , 6, 12022-12026	3.9	2
203	Mitigation of bromine-containing products during pyrolysis of polycarbonate-based tetrabromobisphenol A in the presence of copper(I) oxide. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124972	12.8	3
202	Synthesis of MnO ₂ /Mg-Al layered double hydroxide and evaluation of its NO-removal performance. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 159038	5.7	5
201	Kinetics and adsorption isotherm of ammonia uptake by cation exchange resins and treatment of mixed aqueous lactate-ammonia by MgAl layered double oxide and the resins. <i>Journal of Water Process Engineering</i> , 2021 , 41, 102027	6.7	
200	Preparation of ZnAl layered double hydroxide intercalated with carboxymethyl-β-cyclodextrin by anion exchange method and its Ni ²⁺ adsorption property. <i>Soft Materials</i> , 2021 , 19, 139-147	1.7	1
199	Synthesis of layered double hydroxide nanosheets in an aqueous solvent and their Ni ²⁺ uptake characteristics. <i>Applied Clay Science</i> , 2021 , 200, 105911	5.2	3
198	Desorption of Cl ⁻ from Mg-Al layered double hydroxide intercalated with Cl ⁻ using CO ₂ gas and water. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 29, 131-134	3.2	3
197	Lactate adsorption by layered double hydroxides in aqueous solution and cell culture medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 612, 125975	5.1	1
196	Low-temperature catalytic upgrading of waste polyolefinic plastics into liquid fuels and waxes. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119805	21.8	39

195	Regeneration of carbonate-intercalated Mg ₃ Al layered double hydroxides (CO ₃ ◻Mg ₃ Al LDHs) by CO ₂ -induced desorption of anions (X) from X◻Mg ₃ Al LDH (X = Cl, SO ₄ , or NO ₃): A kinetic study. <i>Chemical Engineering Research and Design</i> , 2021 , 165, 207-213	5.5	2
194	Enhanced production of phenol and debromination by co-pyrolysis of the non-metallic fraction of printed circuit boards and waste tires. <i>Green Chemistry</i> , 2021 , 23, 6392-6404	10	5
193	Removal of cesium ions from A-type zeolites using sodium tetrakis(4-fluorophenyl)borate and sodium tetraphenylborate. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021 , 327, 337-344	1.5	1
192	One-pot wet ball-milling for waste wire-harness recycling. <i>Journal of Material Cycles and Waste Management</i> , 2021 , 23, 461-469	3.4	2
191	Latest Trends in Pyrolysis Gas Chromatography for Analytical and Applied Pyrolysis of Plastics. <i>Analytical Sciences</i> , 2021 , 37, 145-157	1.7	7
190	Kinetic and equilibrium analyses of lactate adsorption by Cu-Al and Mg-Al layered double hydroxides (Cu-Al LDH and Mg-Al LDH) and Cu-Al and Mg-Al layered double oxides (Cu-Al LDO and Mg-Al LDO). <i>Nano Structures Nano Objects</i> , 2021 , 25, 100656	5.6	6
189	Ammonia adsorption by L-type zeolite and Prussian blue from aqueous and culture solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 622, 126595	5.1	3
188	Combined UV-irradiation and pyrolysis-GC/MS approach for evaluating the deterioration behavior of ethylene vinyl acetate. <i>Polymer Degradation and Stability</i> , 2021 , 190, 109623	4.7	1
187	Prediction of pyrolyzate yields by response surface methodology: A case study of cellulose and polyethylene co-pyrolysis. <i>Bioresource Technology</i> , 2021 , 337, 125435	11	4
186	Investigation of the mechanism of Cu(II) removal using Mg-Al layered double hydroxide intercalated with carbonate: Equilibrium and pH studies and solid-state analyses. <i>Inorganic Chemistry Communication</i> , 2021 , 132, 108839	3.1	4
185	Evolution of carbon nanostructure during pyrolysis of homogeneous chitosan-cellulose composite fibers. <i>Carbon</i> , 2021 , 185, 27-38	10.4	4
184	Antitumour immunity regulated by aberrant ERBB family signalling. <i>Nature Reviews Cancer</i> , 2021 , 21, 181-197	31.3	32
183	Machine learning-based discrete element reaction model for predicting the dechlorination of poly(vinyl chloride) in NaOH/ethylene glycol solvent with ball milling. <i>Chemical Engineering Journal Advances</i> , 2020 , 3, 100025	3.6	0
182	Practical dehalogenation of automobile shredder residue in NaOH/ethylene glycol with an up-scale ball mill reactor. <i>Journal of Material Cycles and Waste Management</i> , 2020 , 22, 1620-1629	3.4	2
181	Enhancement of gasification and liquefaction during fast co-pyrolysis of cedar wood and polyethylene through control of synergistic interactions. <i>Bioresource Technology Reports</i> , 2020 , 11, 100431	4.1	13
180	Investigation of Sludge Volume from Abandoned Mine Wastewater Treatment by Layered Double Hydroxides: A Case Study Targeting As and Fe. <i>Mine Water and the Environment</i> , 2020 , 39, 881-887	2.4	2
179	Heavy metal removal from municipal solid waste fly ash through chloride volatilization using poly(vinyl chloride) as chlorinating agent. <i>Journal of Material Cycles and Waste Management</i> , 2020 , 22, 1270-1283	3.4	4
178	Simultaneous recovery of high-purity Cu and poly(vinyl chloride) from waste wire harness via swelling followed by ball milling. <i>Scientific Reports</i> , 2020 , 10, 10754	4.9	1

177	Treatment of NO by a combination of MnO ₂ and a CO ₃ ²⁻ intercalated Mg/Al layered double hydroxide. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	6
176	Influence of CO ₂ gas on the rate and kinetics of HCl, SO ₂ , and NO ₂ gas removal by Mg-Al layered double hydroxide intercalated with CO ₃ ²⁻ . <i>Applied Clay Science</i> , 2020 , 195, 105725	5.2	5
175	Combining pyrolysis two-dimensional gas chromatography time-of-flight mass spectrometry with hierarchical cluster analysis for rapid identification of pyrolytic interactions: Case study of co-pyrolysis of PVC and biomass components. <i>Chemical Engineering Research and Design</i> , 2020 , 143, 91-100	5.5	8
174	Facile method for treating Zn, Cd, and Pb in mining wastewater by the formation of Mg/Al layered double hydroxide. <i>International Journal of Environmental Science and Technology</i> , 2020 , 17, 3023-3032	3.3	8
173	Adsorption of various metals by carboxymethyl-β-cyclodextrin-modified Zn/Al layered double hydroxides. <i>Applied Clay Science</i> , 2020 , 187, 105479	5.2	5
172	Effect of the specific surface area of MgO on the treatment of boron and fluorine. <i>Applied Water Science</i> , 2020 , 10, 1	5	1
171	Impact of Ni/Mg/Al Catalyst Composition on Simultaneous H ₂ -Rich Syngas Recovery and Toxic HCN Removal through a Two-Step Polyurethane Pyrolysis and Steam Reforming Process. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9023-9033	3.9	7
170	Latest Trends and Challenges in Feedstock Recycling of Polyolefinic Plastics. <i>Journal of the Japan Petroleum Institute</i> , 2020 , 63, 345-364	1	9
169	Combined Experiment, Simulation, and Ex-ante LCA Approach for Sustainable Cl Recovery from NaCl/Ethylene Glycol by Electrodialysis. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20112-20121	3.9	11
168	Treatment of HCl gas by cyclic use of Mg/Al layered double hydroxide intercalated with CO ₃ ²⁻ . <i>Atmospheric Pollution Research</i> , 2020 , 11, 290-295	4.5	11
167	Effects of Acetic Acid Pretreatment and Pyrolysis Temperatures on Product Recovery from Fijian Sugarcane Bagasse. <i>Waste and Biomass Valorization</i> , 2020 , 11, 6347-6357	3.2	4
166	Temperature-dependent pyrolysis behavior of polyurethane elastomers with different hard- and soft-segment compositions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 145, 104754	6	14
165	Catalytic Pyrolysis of Poly(ethylene terephthalate) in the Presence of Metal Oxides for Aromatic Hydrocarbon Recovery Using Tandem Reactor-GC/MS. <i>Energy & Fuels</i> , 2020 , 34, 2492-2500	4.1	15
164	A new strategy for CO ₂ utilization with waste plastics: conversion of hydrogen carbonate into formate using polyvinyl chloride in water. <i>Green Chemistry</i> , 2020 , 22, 352-358	10	8
163	Adsorption of Cu ²⁺ and Ni ²⁺ by oxalic acid-crosslinked chitosan-modified montmorillonite. <i>Soft Materials</i> , 2020 , 18, 411-420	1.7	
162	Adsorption of urea, creatinine, and uric acid onto spherical activated carbon. <i>Separation and Purification Technology</i> , 2020 , 237, 116367	8.3	21
161	Adsorption of SeO ₄ ²⁻ by delaminated Mg-Al layered double hydroxide nanosheets. <i>Inorganic Chemistry Communication</i> , 2020 , 122, 108266	3.1	4
160	Direct Gas-Phase Derivatization by Employing Tandem Reactor-Gas Chromatography/Mass Spectrometry: Case Study of Trifluoroacetylation of 4,4'-Methylenedianiline. <i>Analytical Chemistry</i> , 2020 , 92, 14924-14929	7.8	6

159	Highly efficient recovery of high-purity Cu, PVC, and phthalate plasticizer from waste wire harnesses through PVC swelling and rod milling. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 1805-1813	4.9	2
158	Close Packing of Cellulose and Chitosan in Regenerated Cellulose Fibers Improves Carbon Yield and Structural Properties of Respective Carbon Fibers. <i>Biomacromolecules</i> , 2020 , 21, 4326-4335	6.9	10
157	Simultaneous treatment of HCl/BO ₂ /NO _x gas with Mg/Al layered double hydroxide intercalated with CO ₂ and its recycling process. <i>International Journal of Environmental Science and Technology</i> , 2020 , 17, 1179-1184	3.3	8
156	Adsorption of urea, creatinine, and uric acid from three solution types using spherical activated carbon and its recyclability. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2993-3001	3.2	4
155	Degradation of PVC waste into a flexible polymer by chemical modification using DINP moieties.. <i>RSC Advances</i> , 2019 , 9, 28870-28875	3.7	3
154	Treatment of NO _x using recyclable CO ₂ -intercalated Mg/Al layered double hydroxide. <i>Atmospheric Pollution Research</i> , 2019 , 10, 1866-1872	4.5	11
153	Practical dechlorination of polyvinyl chloride wastes in NaOH/ethylene glycol using an up-scale ball mill reactor and validation by discrete element method simulations. <i>Waste Management</i> , 2019 , 99, 31-41	8.6	9
152	Removal of Mn and Cd contained in mine wastewater by Mg/Al-layered double hydroxides. <i>Journal of Material Cycles and Waste Management</i> , 2019 , 21, 1232-1241	3.4	8
151	Uptake of Ni ²⁺ and Cu ²⁺ by Zn/Al layered double hydroxide intercalated with carboxymethyl-modified cyclodextrin: Equilibrium and kinetic studies. <i>Materials Chemistry and Physics</i> , 2019 , 233, 288-295	4.4	10
150	Adsorption of Cu ²⁺ and Ni ²⁺ by tripolyphosphate-crosslinked chitosan-modified montmorillonite. <i>Journal of Solid State Chemistry</i> , 2019 , 277, 143-148	3.3	22
149	Separation mechanism of polyvinyl chloride and copper components from swollen electric cables by mechanical agitation. <i>Waste Management</i> , 2019 , 93, 54-62	8.6	8
148	Separation of copper and polyvinyl chloride from thin waste electric cables: A combined PVC-swelling and centrifugal approach. <i>Waste Management</i> , 2019 , 89, 27-36	8.6	11
147	A combined kinetic and thermodynamic approach for interpreting the complex interactions during chloride volatilization of heavy metals in municipal solid waste fly ash. <i>Waste Management</i> , 2019 , 87, 204-217	8.6	18
146	Pyrolysis of sugarcane bagasse pretreated with sulfuric acid. <i>Journal of the Energy Institute</i> , 2019 , 92, 1149-1157	5.7	15
145	Uptake of heavy metal cations by chitosan-modified montmorillonite: Kinetics and equilibrium studies. <i>Materials Chemistry and Physics</i> , 2019 , 236, 121784	4.4	12
144	Impact of Common Plastics on Cellulose Pyrolysis. <i>Energy & Fuels</i> , 2019 , 33, 6837-6841	4.1	13
143	Deducing targets of emerging technologies based on ex ante life cycle thinking: Case study on a chlorine recovery process for polyvinyl chloride wastes. <i>Resources, Conservation and Recycling</i> , 2019 , 151, 104500	11.9	8
142	Impacts of Pyrolytic Interactions during the Co-pyrolysis of Biomass/Plastic: Synergies in Lignocellulose-Polyethylene System. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2019 , 98, 202-219	0.5	14

141	Beech Wood Pyrolysis in Polyethylene Melt as a Means of Enhancing Levoglucosan and Methoxyphenol Production. <i>Scientific Reports</i> , 2019 , 9, 1955	4.9	20
140	Hydrogen and steam injected tandem μ -reactor GC/FID system: phenol recovery from bisphenol A and alkylphenols using Ni/Y zeolite. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 2099-2107	4.9	6
139	MgAl layered double hydroxide intercalated with CO ₂ and its recyclability for treatment of SO ₂ . <i>Applied Clay Science</i> , 2019 , 183, 105349	5.2	11
138	Simultaneous recovery of H ₂ -rich syngas and removal of HCN during pyrolytic recycling of polyurethane by Ni/Mg/Al catalysts. <i>Chemical Engineering Journal</i> , 2019 , 361, 408-415	14.7	19
137	Application of MgAl layered double hydroxide for treating acidic mine wastewater: a novel approach to sludge reduction. <i>Chemistry and Ecology</i> , 2019 , 35, 128-142	2.3	11
136	Pyrolysis gases produced from individual and mixed PE, PP, PS, PVC, and PET Part I: Production and physical properties. <i>Fuel</i> , 2018 , 221, 346-360	7.1	68
135	Pyrolysis gases produced from individual and mixed PE, PP, PS, PVC, and PET Part II: Fuel characteristics. <i>Fuel</i> , 2018 , 221, 361-373	7.1	29
134	Identification of number and type of cations in water-soluble Cs and Na calix[4]arene-bis-crown-6 complexes by using ESI-TOF-MS. <i>Chemosphere</i> , 2018 , 197, 181-184	8.4	8
133	Simultaneous recovery of high-purity copper and polyvinyl chloride from thin electric cables by plasticizer extraction and ball milling.. <i>RSC Advances</i> , 2018 , 8, 6893-6903	3.7	12
132	A novel method to delaminate nitrate-intercalated MgAl layered double hydroxides in water and application in heavy metals removal from waste water. <i>Chemosphere</i> , 2018 , 203, 281-290	8.4	32
131	Alkaline hydrolysis of PVC-coated PET fibers for simultaneous recycling of PET and PVC. <i>Journal of Material Cycles and Waste Management</i> , 2018 , 20, 439-449	3.4	12
130	Effectiveness of MgAl-layered double hydroxide for heavy metal removal from mine wastewater and sludge volume reduction. <i>International Journal of Environmental Science and Technology</i> , 2018 , 15, 263-272	3.3	21
129	Aromatic hydrocarbon selectivity as a function of CaO basicity and aging during CaO-catalyzed PET pyrolysis using tandem μ -reactor-GC/MS. <i>Chemical Engineering Journal</i> , 2018 , 332, 169-173	14.7	28
128	Optimization of separation and logistics for recycling materials from wallpaper hanging sites. <i>Journal of Material Cycles and Waste Management</i> , 2018 , 20, 2068-2076	3.4	3
127	Equilibrium studies of the adsorption of aromatic disulfonates by MgAl oxide. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 114, 129-132	3.9	2
126	Diagnosing chlorine industrial metabolism by evaluating the potential of chlorine recovery from polyvinyl chloride wastes—a case study in Japan. <i>Resources, Conservation and Recycling</i> , 2018 , 133, 354-361	11.9	14
125	Mechanism and kinetics of aqueous boron removal using MgO. <i>Journal of Water Process Engineering</i> , 2018 , 26, 237-241	6.7	8
124	Selective phenol recovery via simultaneous hydrogenation/dealkylation of isopropyl- and isopropenyl-phenols employing an H ₂ generator combined with tandem micro-reactor GC/MS. <i>Scientific Reports</i> , 2018 , 8, 13994	4.9	9

123	Validation of a deplasticizer-ball milling method for separating Cu and PVC from thin electric cables: A simulation and experimental approach. <i>Waste Management</i> , 2018 , 82, 220-230	8.6	11
122	Analysis of F ⁻ removal from aqueous solutions using MgO. <i>Journal of Water Process Engineering</i> , 2018 , 25, 54-57	6.7	5
121	Thermal decomposition of tetrabromobisphenol-A containing printed circuit boards in the presence of calcium hydroxide. <i>Journal of Material Cycles and Waste Management</i> , 2017 , 19, 282-293	3.4	33
120	Solubility parameters for determining optimal solvents for separating PVC from PVC-coated PET fibers. <i>Journal of Material Cycles and Waste Management</i> , 2017 , 19, 612-622	3.4	26
119	Recycling of PVC pipes and fittings in Japan: proactive approach of industry to and its impacts on legal/technical frameworks. <i>Journal of Material Cycles and Waste Management</i> , 2017 , 19, 21-31	3.4	7
118	Kinetics and equilibrium studies on the uptake of Nd ³⁺ by ZnAl layered double hydroxide intercalated with triethylenetetramine-hexaacetic acid. <i>Materials Chemistry and Physics</i> , 2017 , 191, 96-98	4.4	6
117	Fate of bisphenol A pyrolysates at low pyrolytic temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 125, 193-200	6	6
116	Effects of hard- and soft-segment composition on pyrolysis characteristics of MDI, BD, and PTMG-based polyurethane elastomers. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 126, 337-345	6	29
115	Adsorption isotherms and kinetics of arsenic removal from aqueous solution by MgAl layered double hydroxide intercalated with nitrate ions. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 120, 703-714	1.6	24
114	Removal of boron and fluoride in wastewater using Mg-Al layered double hydroxide and Mg-Al oxide. <i>Journal of Environmental Management</i> , 2017 , 188, 58-63	7.9	30
113	Tandem Reactor-GC/MS for online monitoring of aromatic hydrocarbon production via CaO-catalysed PET pyrolysis. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 776-784	4.9	24
112	The Latest Trends and Challenges in Research and Development of Plastic Recycling: Feedstock Recycling. <i>Kagaku Kogaku Ronbunshu</i> , 2017 , 43, 178-184	0.4	2
111	New principals on the adsorption of alkyl compound by MgAl oxide: Adsorption kinetics and equilibrium studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 513, 348-354	5.1	5
110	Kinetic and equilibrium studies of urea adsorption onto activated carbon: Adsorption mechanism. <i>Journal of Dispersion Science and Technology</i> , 2017 , 38, 1063-1066	1.5	25
109	Removal of toxic HCN and recovery of H ₂ -rich syngas via catalytic reforming of product gas from gasification of polyimide over Ni/Mg/Al catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 123, 330-339	6	19
108	Replacing conventional fuels in USA, Europe, and UK with plastic pyrolysis gases [Part II: Multi-index interchangeability methods. <i>Energy Conversion and Management</i> , 2016 , 126, 1128-1145	10.6	15
107	Replacing conventional fuels in USA, Europe, and UK with plastic pyrolysis gases [Part I: Experiments and graphical interchangeability methods. <i>Energy Conversion and Management</i> , 2016 , 126, 1118-1127	10.6	33
106	Pyrolysis and hydrolysis behaviors during steam pyrolysis of polyimide. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 120, 75-81	6	12

105	Kinetic and equilibrium studies on the uptake of Nd ³⁺ and Sr ²⁺ by Li/Al layered double hydroxide intercalated with 1-hydroxyethane-1,1-diphosphonic acid. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 36, 96-101	6.3	7
104	Use of Mg-Al oxide for boron removal from an aqueous solution in rotation: Kinetics and equilibrium studies. <i>Journal of Environmental Management</i> , 2016 , 165, 280-285	7.9	16
103	Synthesis of Li/Al layered double hydroxide intercalated with amino tris(methylene phosphonic acid) and kinetic and equilibrium studies of the uptake of Nd ³⁺ and Sr ²⁺ ions. <i>Applied Surface Science</i> , 2016 , 366, 523-528	6.7	10
102	Feedstock Recycling via Waste Plastic Pyrolysis. <i>Journal of the Japan Petroleum Institute</i> , 2016 , 59, 243-253	4.0	40
101	Thermogravimetric Investigation of the Lead Volatilization from Waste Cathode-Ray Tube Glass. <i>Recycling</i> , 2016 , 1, 111-121	3.2	4
100	Uptake of Nd ³⁺ and Sr ²⁺ by Li/Al layered double hydroxides intercalated with ethylenediaminetetraacetate. <i>Materials Chemistry and Physics</i> , 2016 , 177, 8-11	4.4	14
99	Treatment of hydrochloric acid using Mg/Al layered double hydroxide intercalated with carbonate. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 39, 21-26	6.3	21
98	Interactions of beech wood/polyethylene mixtures during co-pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 122, 531-540	6	44
97	Thermal decomposition of individual and mixed plastics in the presence of CaO or Ca(OH) ₂ . <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 113, 584-590	6	44
96	Recyclable Mg-Al layered double hydroxides for fluoride removal: Kinetic and equilibrium studies. <i>Journal of Hazardous Materials</i> , 2015 , 300, 475-482	12.8	48
95	New treatment method for boron in aqueous solutions using Mg-Al layered double hydroxide: Kinetics and equilibrium studies. <i>Journal of Hazardous Materials</i> , 2015 , 293, 54-63	12.8	27
94	Kinetics and equilibrium studies on the removal of aromatic sulfonates from aqueous solution by Mg/Al oxide. <i>New Journal of Chemistry</i> , 2015 , 39, 4078-4085	3.6	3
93	Chemical modification of poly(vinyl chloride) using sodium trisulfide. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	4
92	Effects of steam on the thermal dehydrochlorination of poly(vinyl chloride) resin and flexible poly(vinyl chloride) under atmospheric pressure. <i>Polymer Degradation and Stability</i> , 2015 , 117, 8-15	4.7	21
91	Kinetics and equilibrium studies on Mg-Al oxide for removal of fluoride in aqueous solution and its use in recycling. <i>Journal of Environmental Management</i> , 2015 , 156, 252-6	7.9	19
90	Uptake of Nd ³⁺ and Sr ²⁺ by Li/Al layered double hydroxide intercalated with triethylenetetramine-hexaacetic acid: kinetic and equilibrium studies. <i>RSC Advances</i> , 2015 , 5, 79447-79457	3.7	14
89	Enhancement of bio-oil production via pyrolysis of wood biomass by pretreatment with H ₂ SO ₄ . <i>Bioresource Technology</i> , 2015 , 178, 76-82	11	41
88	Effect of H ₂ O ₂ on the treatment of NO and NO ₂ using a Mg-Al oxide slurry. <i>Chemosphere</i> , 2015 , 120, 378-82	8.4	13

87	Pyrolysis versus hydrolysis behavior during steam decomposition of polyesters using 18O-labeled steam. <i>RSC Advances</i> , 2015 , 5, 61828-61837	3.7	21
86	Steam Pyrolysis of Polyimides: Effects of Steam on Raw Material Recovery. <i>Environmental Science & Technology</i> , 2015 , 49, 13558-65	10.3	12
85	Equilibrium and kinetics studies on As(V) and Sb(V) removal by Fe ²⁺ -doped Mg-Al layered double hydroxides. <i>Journal of Environmental Management</i> , 2015 , 151, 303-9	7.9	28
84	A novel process for the removal of bromine from styrene polymers containing brominated flame retardant. <i>Polymer Degradation and Stability</i> , 2015 , 112, 86-93	4.7	23
83	Novel Ni/Mg/Al/Co catalyst for enhanced hydrogen production for the pyrolysis-gasification of a biomass/plastic mixture. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 113, 15-21	6	73
82	Nucleophilic substitution of poly(vinyl chloride) with iminoacetic acid and n-dodecanethiol. <i>Journal of Material Cycles and Waste Management</i> , 2014 , 16, 519-524	3.4	5
81	Recovery of benzene-rich oil from the degradation of metal- and metal oxide-containing poly(ethylene terephthalate) composites. <i>Journal of Material Cycles and Waste Management</i> , 2014 , 16, 282-290	3.4	14
80	Steam Hydrolysis of Poly(bisphenol A carbonate) in a Fluidized Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4215-4223	3.9	32
79	Preparation of Zn/Al layered double hydroxide intercalated with triethylenetetramine-hexaacetic acid by coprecipitation: uptake of rare-earth metal ions from aqueous solutions. <i>RSC Advances</i> , 2014 , 4, 45995-46001	3.7	13
78	Lead removal from cathode ray tube glass by the action of calcium hydroxide and poly(vinyl chloride). <i>Thermochimica Acta</i> , 2014 , 596, 49-55	2.9	20
77	Developments in an industry-led R&D program for recycling PVC products in Japan. <i>Journal of Material Cycles and Waste Management</i> , 2014 , 16, 385-397	3.4	4
76	Simultaneous recovery of benzene-rich oil and metals by steam pyrolysis of metal-poly(ethylene terephthalate) composite waste. <i>Environmental Science & Technology</i> , 2014 , 48, 3430-7	10.3	29
75	Hydrogen production from biomass and plastic mixtures by pyrolysis-gasification. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10883-10891	6.7	138
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