

# Tomohito Kameda

## List of Publications by Citations

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226  
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229  
ext. papers

4,493  
ext. citations

5.2  
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L-index

#	Paper	IF	Citations
226	Nomenclature of the hydrotalcite supergroup: natural layered double hydroxides. <i>Mineralogical Magazine</i> , <b>2012</b> , 76, 1289-1336	1.7	281
225	Mg-Al layered double hydroxide intercalated with ethylene-diaminetetraacetate anion: Synthesis and application to the uptake of heavy metal ions from an aqueous solution. <i>Separation and Purification Technology</i> , <b>2005</b> , 47, 20-26	8.3	109
224	Recovery of indium from In <sub>2</sub> O <sub>3</sub> and liquid crystal display powder via a chloride volatilization process using polyvinyl chloride. <i>Thermochimica Acta</i> , <b>2009</b> , 493, 105-108	2.9	86
223	New method of treating dilute mineral acids using magnesium-aluminum oxide. <i>Water Research</i> , <b>2003</b> , 37, 1545-50	12.5	67
222	Uptake of heavy metal ions from aqueous solution using Mg/Al layered double hydroxides intercalated with citrate, malate, and tartrate. <i>Separation and Purification Technology</i> , <b>2008</b> , 62, 330-336	8.3	66
221	Chemical modification of poly(vinyl chloride) by nucleophilic substitution. <i>Polymer Degradation and Stability</i> , <b>2009</b> , 94, 107-112	4.7	57
220	Dechlorination of poly(vinyl chloride) using NaOH in ethylene glycol under atmospheric pressure. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 1138-1141	4.7	55
219	Preparation of Mg/Al layered double hydroxide doped with Fe <sup>2+</sup> and its application to Cr(VI) removal. <i>Separation and Purification Technology</i> , <b>2014</b> , 122, 12-16	8.3	50
218	Kinetic studies of the decomposition of flame retardant containing high-impact polystyrene. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 1129-1137	4.7	50
217	Preparation and Characterisation of Mg&ndash;Al Layered Double Hydroxides Intercalated with 2-Naphthalene Sulphonate and 2,6-Naphthalene Disulphonate. <i>Materials Transactions</i> , <b>2006</b> , 47, 923-930	1.3	50
216	New Treatment Methods for Waste Water Containing Chloride Ion Using Magnesium&Aluminum Oxide. <i>Chemistry Letters</i> , <b>2000</b> , 29, 1136-1137	1.7	49
215	Recyclable Mg-Al layered double hydroxides for fluoride removal: Kinetic and equilibrium studies. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 300, 475-482	12.8	48
214	The simultaneous removal of calcium and chloride ions from calcium chloride solution using magnesium-aluminum oxide. <i>Water Research</i> , <b>2003</b> , 37, 4045-50	12.5	48
213	Thermal decomposition of individual and mixed plastics in the presence of CaO or Ca(OH) <sub>2</sub> . <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 113, 584-590	6	44
212	Interactions of beech wood&polyethylene mixtures during co-pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 122, 531-540	6	44
211	Dechlorination behaviour of flexible poly(vinyl chloride) in NaOH/EG solution. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 1822-1825	4.7	42
210	New Treatment Method for Dilute Hydrochloric Acid Using Magnesium-Aluminum Oxide. <i>Bulletin of the Chemical Society of Japan</i> , <b>2002</b> , 75, 595-599	5.1	42

209	Enhancement of bio-oil production via pyrolysis of wood biomass by pretreatment with H <sub>2</sub> SO <sub>4</sub> . <i>Bioresource Technology</i> , <b>2015</b> , 178, 76-82	11	41
208	Removal of antimonate ions from an aqueous solution by anion exchange with magnesium-aluminum layered double hydroxide and the formation of a brandholzite-like structure. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2012</b> , 47, 1146-51	2.3	39
207	TG-MS investigation of brominated products from the degradation of brominated flame retardants in high-impact polystyrene. <i>Chemosphere</i> , <b>2011</b> , 85, 368-73	8.4	39
206	Preparation of a composite material for the uptake of bisphenol A from aqueous solutions, the dodecylsulfate ion-intercalated MgAl layer-structured double hydroxide particles. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 402, 46-52	5.7	39
205	Elimination behavior of nitrogen oxides from a NO <sub>3</sub> <sup>-</sup> intercalated MgAl layered double hydroxide during thermal decomposition. <i>Thermochimica Acta</i> , <b>2010</b> , 499, 106-110	2.9	38
204	The removal of chloride from solutions with various cations using magnesium-aluminum oxide. <i>Separation and Purification Technology</i> , <b>2005</b> , 42, 25-29	8.3	37
203	Removal of HCl, SO <sub>2</sub> and NO by treatment of acid gas with Mg-Al oxide slurry. <i>Chemosphere</i> , <b>2011</b> , 82, 587-91	8.4	34
202	Hybrid inorganic/organic composites of MgAl layered double hydroxides intercalated with citrate, malate, and tartrate prepared by co-precipitation. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 840-845	5.1	34
201	Treatment of hydrochloric acid with magnesium-aluminum oxide at ambient temperatures. <i>Separation and Purification Technology</i> , <b>2006</b> , 51, 272-276	8.3	34
200	Thermal decomposition of tetrabromobisphenol-A containing printed circuit boards in the presence of calcium hydroxide. <i>Journal of Material Cycles and Waste Management</i> , <b>2017</b> , 19, 282-293	3.4	33
199	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> , <b>2018</b> , 203, 281-290	8.4	32
198	Steam Hydrolysis of Poly(bisphenol A carbonate) in a Fluidized Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 4215-4223	3.9	32
197	Removal of lead from cathode ray tube funnel glass by chloride volatilization. <i>International Journal of Environmental Science and Technology</i> , <b>2014</b> , 11, 959-966	3.3	32
196	Uptake of Sc <sup>3+</sup> and La <sup>3+</sup> from aqueous solution using ethylenediaminetetraacetate-intercalated CuAl layered double hydroxide reconstructed from CuAl oxide. <i>Solid State Sciences</i> , <b>2011</b> , 13, 366-371	3.4	32
195	Pyrolysis of Mixed Plastics in a Fluidized Bed of Hard Burnt Lime. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 5459-5466	3.9	32
194	Effect of temperature management on the hydrolytic degradation of PET in a calcium oxide filled tube reactor. <i>Chemical Engineering Journal</i> , <b>2011</b> , 166, 523-528	14.7	31
193	Kinetics of uptake of Cu <sup>2+</sup> and Cd <sup>2+</sup> by MgAl layered double hydroxides intercalated with citrate, malate, and tartrate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 355, 172-177	5.1	31
192	Removal of boron and fluoride in wastewater using Mg-Al layered double hydroxide and Mg-Al oxide. <i>Journal of Environmental Management</i> , <b>2017</b> , 188, 58-63	7.9	30

191	Dehydrochlorination behavior of a chloride ion-intercalated hydrotalcite-like compound during thermal decomposition. <i>Applied Clay Science</i> , <b>2007</b> , 35, 173-179	5.2	30
190	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> , <b>2017</b> , 126, 337-345	6	29
189	Simultaneous recovery of benzene-rich oil and metals by steam pyrolysis of metal-poly(ethylene terephthalate) composite waste. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 3430-7	10.3	29
188	Antibacterial effect of thiocyanate substituted poly(vinyl chloride). <i>Journal of Polymer Research</i> , <b>2011</b> , 18, 945-947	2.7	29
187	Aromatic hydrocarbon selectivity as a function of CaO basicity and aging during CaO-catalyzed PET pyrolysis using tandem $\mu$ -reactor-GC/MS. <i>Chemical Engineering Journal</i> , <b>2018</b> , 332, 169-173	14.7	28
186	Equilibrium and kinetics studies on As(V) and Sb(V) removal by Fe <sup>2+</sup> -doped Mg-Al layered double hydroxides. <i>Journal of Environmental Management</i> , <b>2015</b> , 151, 303-9	7.9	28
185	Chemical modification of rigid poly(vinyl chloride) by the substitution with nucleophiles. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 116, 36-44	2.9	28
184	Removal of hydrogen chloride from gaseous streams using magnesium-aluminum oxide. <i>Chemosphere</i> , <b>2008</b> , 73, 844-7	8.4	28
183	New treatment method for boron in aqueous solutions using Mg-Al layered double hydroxide: Kinetics and equilibrium studies. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 293, 54-63	12.8	27
182	Solubility parameters for determining optimal solvents for separating PVC from PVC-coated PET fibers. <i>Journal of Material Cycles and Waste Management</i> , <b>2017</b> , 19, 612-622	3.4	26
181	Preparation of Cu-Al layered double hydroxide intercalated with ethylenediaminetetraacetate by coprecipitation and its uptake of rare earth ions from aqueous solution. <i>Solid State Sciences</i> , <b>2013</b> , 17, 28-34	3.4	25
180	Kinetic and equilibrium studies of urea adsorption onto activated carbon: Adsorption mechanism. <i>Journal of Dispersion Science and Technology</i> , <b>2017</b> , 38, 1063-1066	1.5	25
179	Preparation and characterization of Mg-Al layered double hydroxides intercalated with benzenesulfonate and benzenedisulfonate. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 114, 410-415	5.3	25
178	Adsorption isotherms and kinetics of arsenic removal from aqueous solution by Mg-Al layered double hydroxide intercalated with nitrate ions. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2017</b> , 120, 703-714	1.6	24
177	Tandem $\mu$ -reactor-GC/MS for online monitoring of aromatic hydrocarbon production via CaO-catalyzed PET pyrolysis. <i>Reaction Chemistry and Engineering</i> , <b>2017</b> , 2, 776-784	4.9	24
176	High-value products from the catalytic hydrolysis of polycarbonate waste. <i>Polymer Journal</i> , <b>2010</b> , 42, 438-442	2.7	24
175	A novel process for the removal of bromine from styrene polymers containing brominated flame retardant. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 112, 86-93	4.7	23
174	Ni-Al layered double hydroxides modified with citrate, malate, and tartrate: Preparation by coprecipitation and uptake of Cu <sup>2+</sup> from aqueous solution. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 846-851	3.9	23

173	Ball Mill-Assisted Dechlorination of Flexible and Rigid Poly(vinyl chloride) in NaOH/EG Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 8619-8624	3.9	23
172	Adsorption of Cu <sup>2+</sup> and Ni <sup>2+</sup> by tripolyphosphate-crosslinked chitosan-modified montmorillonite. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 277, 143-148	3.3	22
171	Removal of arsenic from an aqueous solution by coprecipitation with manganese oxide. <i>Journal of Environmental Chemical Engineering</i> , <b>2014</b> , 2, 2045-2049	6.8	22
170	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> , <b>2015</b> , 117, 8-15	4.7	21
169	Effectiveness of Mg <sub>3</sub> Al-layered double hydroxide for heavy metal removal from mine wastewater and sludge volume reduction. <i>International Journal of Environmental Science and Technology</i> , <b>2018</b> , 15, 263-272	3.3	21
168	Pyrolysis versus hydrolysis behavior during steam decomposition of polyesters using 18O-labeled steam. <i>RSC Advances</i> , <b>2015</b> , 5, 61828-61837	3.7	21
167	Lactic acid as a substrate for fermentative hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 16967-16973	6.7	21
166	Removal of antimonate ions and simultaneous formation of a brandholzite-like compound from magnesium <sub>3</sub> aluminum oxide. <i>Separation and Purification Technology</i> , <b>2011</b> , 80, 235-239	8.3	21
165	Adsorption of urea, creatinine, and uric acid onto spherical activated carbon. <i>Separation and Purification Technology</i> , <b>2020</b> , 237, 116367	8.3	21
164	Treatment of hydrochloric acid using Mg <sub>3</sub> Al layered double hydroxide intercalated with carbonate. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 39, 21-26	6.3	21
163	Lead removal from cathode ray tube glass by the action of calcium hydroxide and poly(vinyl chloride). <i>Thermochimica Acta</i> , <b>2014</b> , 596, 49-55	2.9	20
162	Impact of brominated flame retardants on the thermal degradation of high-impact polystyrene. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 306-315	4.7	20
161	Decomposition of Gaseous Terephthalic Acid in the Presence of CaO. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 1831-1836	3.9	20
160	Preparation of Mg <sub>3</sub> Al layered double hydroxides intercalated with alkyl sulfates and investigation of their capacity to take up N,N-dimethylaniline from aqueous solutions. <i>Solid State Sciences</i> , <b>2009</b> , 11, 2060-2064	3.4	20
159	Treatment of gaseous hydrogen chloride using Mg-Al layered double hydroxide intercalated with carbonate ion. <i>Chemosphere</i> , <b>2010</b> , 81, 658-662	8.4	20
158	Uptake of Bisphenol A from Aqueous Solution by Mg <sup>2+</sup> -Al-Layered Double Hydroxides Intercalated with 2-Naphthalene Sulfonate and 2,6-Naphthalene Disulfonate. <i>Materials Transactions</i> , <b>2007</b> , 48, 2225-2229	1.3	20
157	Beech Wood Pyrolysis in Polyethylene Melt as a Means of Enhancing Levoglucosan and Methoxyphenol Production. <i>Scientific Reports</i> , <b>2019</b> , 9, 1955	4.9	20
156	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> , <b>2015</b> , 156, 252-6	7.9	19

155	Removal of toxic HCN and recovery of H <sub>2</sub> -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> , <b>2017</b> , 123, 330-339	6	19
154	Dechlorination of poly(vinylidene chloride) in NaOH/ethylene glycol as a function of NaOH concentration, temperature, and solvent. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 1979-1984	4.7	19
153	Removal of tetrafluoroborate ion from aqueous solution using magnesium-aluminum oxide produced by the thermal decomposition of a hydrotalcite-like compound. <i>Chemosphere</i> , <b>2007</b> , 69, 832-5	8.4	19
152	Simultaneous recovery of H <sub>2</sub> -rich syngas and removal of HCN during pyrolytic recycling of polyurethane by Ni/Mg/Al catalysts. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 408-415	14.7	19
151	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> , <b>2019</b> , 87, 204-217	8.6	18
150	Recovery of glass fibers from glass fiber reinforced plastics by pyrolysis. <i>Journal of Material Cycles and Waste Management</i> , <b>2013</b> , 15, 122-128	3.4	18
149	Selective Uptake of Aromatic Compounds from Aqueous Solutions by Mg/Al Layered Double Hydroxide Intercalated with 2,7-Naphthalenedisulfonate. <i>Chemistry Letters</i> , <b>2009</b> , 38, 522-523	1.7	18
148	Efficient dehalogenation of automobile shredder residue in NaOH/ethylene glycol using a ball mill. <i>Chemosphere</i> , <b>2009</b> , 74, 287-92	8.4	17
147	Use of Mg-Al oxide for boron removal from an aqueous solution in rotation: Kinetics and equilibrium studies. <i>Journal of Environmental Management</i> , <b>2016</b> , 165, 280-285	7.9	16
146	Metal recovery from wire scrap via a chloride volatilization process: Poly(vinyl chloride) derived chlorine as volatilization agent. <i>Thermochimica Acta</i> , <b>2013</b> , 562, 65-69	2.9	16
145	Preparation of organic acid anion-modified magnesium hydroxides by coprecipitation: A novel material for the uptake of heavy metal ions from aqueous solutions. <i>Journal of Physics and Chemistry of Solids</i> , <b>2009</b> , 70, 1104-1108	3.9	16
144	Dehydrochlorination behavior of polychloroprene during thermal degradation. <i>Thermochimica Acta</i> , <b>2008</b> , 476, 28-32	2.9	16
143	New insights into the capture performance and mechanism of hazardous metals Cr and Cd onto an effective layered double hydroxide based material.. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 426, 128062	12.8	16
142	Pyrolysis of sugarcane bagasse pretreated with sulfuric acid. <i>Journal of the Energy Institute</i> , <b>2019</b> , 92, 1149-1157	5.7	15
141	Dehydrochlorination of poly(vinyl chloride) with Ca(OH) <sub>2</sub> in ethylene glycol and the effect of ball milling. <i>Journal of Polymer Research</i> , <b>2011</b> , 18, 1687-1691	2.7	15
140	Catalytic Pyrolysis of Poly(ethylene terephthalate) in the Presence of Metal Oxides for Aromatic Hydrocarbon Recovery Using Tandem Reactor-GC/MS. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 2492-2500	4.1	15
139	Uptake of Nd <sup>3+</sup> and Sr <sup>2+</sup> by Li/Al layered double hydroxide intercalated with triethylenetetramine-hexaacetic acid: kinetic and equilibrium studies. <i>RSC Advances</i> , <b>2015</b> , 5, 79447-79455	3.7	14
138	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> , <b>2014</b> , 16, 282-290	3.4	14

137	Kinetics of the dehydrochlorination of poly(vinyl chloride) in the presence of NaOH and various diols as solvents. <i>Polymer Degradation and Stability</i> , <b>2009</b> , 94, 1595-1597	4.7	14
136	Chemical modification of flexible and rigid poly(vinyl chloride) by nucleophilic substitution with thiocyanate using a phase-transfer catalyst. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 124, 163-167	4.4	14
135	Dehydrochlorination and recovery of hydrochloric acid by thermal treatment of a chloride ion-intercalated hydrotalcite-like compound. <i>Applied Clay Science</i> , <b>2007</b> , 37, 215-219	5.2	14
134	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> , <b>2019</b> , 98, 202-219	0.5	14
133	Temperature-dependent pyrolysis behavior of polyurethane elastomers with different hard- and soft-segment compositions. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 145, 104754	6	14
132	Uptake of Nd 3+ and Sr 2+ by Li Al layered double hydroxides intercalated with ethylenediaminetetraacetate. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 177, 8-11	4.4	14
131	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> , <b>2018</b> , 133, 354-361	11.9	14
130	Effect of H <sub>2</sub> O <sub>2</sub> on the treatment of NO and NO <sub>2</sub> using a Mg-Al oxide slurry. <i>Chemosphere</i> , <b>2015</b> , 120, 378-82	8.4	13
129	Enhancement of gasification and liquefaction during fast co-pyrolysis of cedar wood and polyethylene through control of synergistic interactions. <i>Bioresource Technology Reports</i> , <b>2020</b> , 11, 100431	4.1	13
128	Hydrothermal synthesis of hardened diatomite-based adsorbents with analcime formation for methylene blue adsorption. <i>RSC Advances</i> , <b>2016</b> , 6, 26765-26774	3.7	13
127	Impact of Common Plastics on Cellulose Pyrolysis. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 6837-6841	4.1	13
126	Preparation of ZnAl layered double hydroxide intercalated with triethylenetetramine-hexaacetic acid by coprecipitation: uptake of rare-earth metal ions from aqueous solutions. <i>RSC Advances</i> , <b>2014</b> , 4, 45995-46001	3.7	13
125	Upgrading of poly(vinyl chloride) by chemical modifications using sodium sulfide. <i>Journal of Material Cycles and Waste Management</i> , <b>2010</b> , 12, 264-270	3.4	13
124	Treatment of Cr(VI) in aqueous solution by NiAl and CoAl layered double hydroxides: Equilibrium and kinetic studies. <i>Journal of Water Process Engineering</i> , <b>2015</b> , 8, e75-e80	6.7	12
123	Simultaneous recovery of high-purity copper and polyvinyl chloride from thin electric cables by plasticizer extraction and ball milling.. <i>RSC Advances</i> , <b>2018</b> , 8, 6893-6903	3.7	12
122	Alkaline hydrolysis of PVC-coated PET fibers for simultaneous recycling of PET and PVC. <i>Journal of Material Cycles and Waste Management</i> , <b>2018</b> , 20, 439-449	3.4	12
121	Pyrolysis and hydrolysis behaviors during steam pyrolysis of polyimide. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 120, 75-81	6	12
120	Uptake of heavy metal cations by chitosan-modified montmorillonite: Kinetics and equilibrium studies. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 236, 121784	4.4	12

119	Steam Pyrolysis of Polyimides: Effects of Steam on Raw Material Recovery. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 13558-65	10.3	12
118	Effect of heating rate on the pyrolysis of high-impact polystyrene containing brominated flame retardants: fate of brominated flame retardants. <i>Journal of Material Cycles and Waste Management</i> , <b>2012</b> , 14, 259-265	3.4	12
117	Hydrolytic degradation of poly(ethylene terephthalate) in a pyrolytic two step process to obtain benzene rich oil. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 3687-3694	2.9	12
116	Improvement of the Benzene Yield During Pyrolysis of Terephthalic Acid Using a CaO Fixed-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 6594-6600	3.9	12
115	Preparation of Mg <sub>2</sub> Al Layered Double Hydroxide Intercalated with 2,7-Naphthalene Disulfonate and Its Selective Uptake of Aromatic Compounds from Aqueous Solutions. <i>Bulletin of the Chemical Society of Japan</i> , <b>2009</b> , 82, 1436-1440	5.1	12
114	Treatment of NO <sub>x</sub> using recyclable CO <sub>2</sub> -intercalated Mg <sub>2</sub> Al layered double hydroxide. <i>Atmospheric Pollution Research</i> , <b>2019</b> , 10, 1866-1872	4.5	11
113	Separation of copper and polyvinyl chloride from thin waste electric cables: A combined PVC-swelling and centrifugal approach. <i>Waste Management</i> , <b>2019</b> , 89, 27-36	8.6	11
112	Kinetics of Cr(VI) removal by Mg <sub>2</sub> Al layered double hydroxide doped with Fe <sup>2+</sup> . <i>Journal of Water Process Engineering</i> , <b>2014</b> , 4, 134-136	6.7	11
111	Equilibrium and kinetic studies of Se(VI) removal by Mg <sub>2</sub> Al layered double hydroxide doped with Fe <sup>2+</sup> . <i>RSC Advances</i> , <b>2014</b> , 4, 61817-61822	3.7	11
110	Kinetics and equilibrium studies on the treatment of nitric acid with Mg-Al oxide obtained by thermal decomposition of NO <sub>3</sub> <sup>-</sup> -intercalated Mg-Al layered double hydroxide. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 362, 497-502	9.3	11
109	Treatment of HCl gas by cyclic use of Mg <sub>2</sub> Al layered double hydroxide intercalated with CO <sub>2</sub> -. <i>Atmospheric Pollution Research</i> , <b>2020</b> , 11, 290-295	4.5	11
108	Mg <sub>2</sub> Al layered double hydroxide intercalated with CO <sub>2</sub> and its recyclability for treatment of SO <sub>2</sub> . <i>Applied Clay Science</i> , <b>2019</b> , 183, 105349	5.2	11
107	Application of Mg <sub>2</sub> Al layered double hydroxide for treating acidic mine wastewater: a novel approach to sludge reduction. <i>Chemistry and Ecology</i> , <b>2019</b> , 35, 128-142	2.3	11
106	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> , <b>2018</b> , 82, 220-230	8.6	11
105	Uptake of Ni <sup>2+</sup> and Cu <sup>2+</sup> by Zn <sub>2</sub> Al layered double hydroxide intercalated with carboxymethyl-modified cyclodextrin: Equilibrium and kinetic studies. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 233, 288-295	4.4	10
104	Synthesis of Li <sub>2</sub> Al layered double hydroxide intercalated with amino tris(methylene phosphonic acid) and kinetic and equilibrium studies of the uptake of Nd <sup>3+</sup> and Sr <sup>2+</sup> ions. <i>Applied Surface Science</i> , <b>2016</b> , 366, 523-528	6.7	10
103	Removal of chloride from ethylene glycol solution using alumina/zeolite membrane as a physical boundary between the organic and aqueous phases. <i>Journal of Material Cycles and Waste Management</i> , <b>2013</b> , 15, 404-408	3.4	10
102	Electrodialysis for NaCl/EG solution using ion-exchange membranes. <i>Journal of Material Cycles and Waste Management</i> , <b>2013</b> , 15, 111-114	3.4	10



101	Synthesis of Hydrotalcite from Seawater and Its Application to Phosphorus Removal. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2002</b> , 177, 1503-1506	1	10
100	Simultaneous removal of $Cl^-$ and $SO_4^{2-}$ from seawater using $Mg/Al$ oxide: kinetics and equilibrium studies. <i>Applied Water Science</i> , <b>2017</b> , 7, 129-136	5	9
99	Effect of preparation method on particle properties of carbonate-type magnesium-aluminum layered double hydroxides. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 53, 105-110	6.3	9
98	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> , <b>2019</b> , 99, 31-41	8.6	9
97	$Cu/Al$ layered double hydroxides intercalated with 1-naphthol-3,8-disulfonate and dodecyl sulfate: adsorption of substituted phenols from aqueous media. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 6315-6322	3.6	9
96	Chemical modification and dechlorination of polyvinyl chloride by substitution with thiocyanate as a nucleophile. <i>Polymer Engineering and Science</i> , <b>2010</b> , 50, 69-75	2.3	9
95	Selective phenol recovery via simultaneous hydrogenation/dealkylation of isopropyl- and isopropenyl-phenols employing an H <sub>2</sub> generator combined with tandem micro-reactor GC/MS. <i>Scientific Reports</i> , <b>2018</b> , 8, 13994	4.9	9
94	Removal of Mn and Cd contained in mine wastewater by $Mg/Al$ -layered double hydroxides. <i>Journal of Material Cycles and Waste Management</i> , <b>2019</b> , 21, 1232-1241	3.4	8
93	Separation mechanism of polyvinyl chloride and copper components from swollen electric cables by mechanical agitation. <i>Waste Management</i> , <b>2019</b> , 93, 54-62	8.6	8
92	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> , <b>2020</b> , 143, 91-100	5.5	8
91	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> , <b>2020</b> , 17, 3023-3032	3.3	8
90	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> , <b>2018</b> , 197, 181-184	8.4	8
89	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> , <b>2019</b> , 151, 104500	11.9	8
88	Simultaneous removal of $SO_2$ and $NO_2$ using a $Mg-Al$ oxide slurry treatment. <i>Chemosphere</i> , <b>2013</b> , 93, 2889-93	8.4	8
87	Thermal decomposition behavior of $Cu/Al$ layered double hydroxide, and ethylenediaminetetraacetate-intercalated $Cu/Al$ layered double hydroxide reconstructed from $Cu/Al$ oxide for uptake of $Y^{3+}$ from aqueous solution. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 4216-4219	5.1	8
86	Removal of $SO_2$ with a $Mg-Al$ oxide slurry via reconstruction of a $Mg-Al$ layered double hydroxide. <i>Chemosphere</i> , <b>2012</b> , 88, 250-4	8.4	8
85	Simultaneous treatment of $HCl/CO_2/NO_x$ gas with $Mg/Al$ layered double hydroxide intercalated with $CO_3^{2-}$ and its recycling process. <i>International Journal of Environmental Science and Technology</i> , <b>2020</b> , 17, 1179-1184	3.3	8
84	Mechanism and kinetics of aqueous boron removal using $MgO$ . <i>Journal of Water Process Engineering</i> , <b>2018</b> , 26, 237-241	6.7	8

83	Impact of Ni/Mg/Al Catalyst Composition on Simultaneous H <sub>2</sub> -Rich Syngas Recovery and Toxic HCN Removal through a Two-Step Polyurethane Pyrolysis and Steam Reforming Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 9023-9033	3.9	7
82	Kinetic and equilibrium studies on the uptake of Nd <sup>3+</sup> and Sr <sup>2+</sup> by Li/Al layered double hydroxide intercalated with 1-hydroxyethane-1,1-diphosphonic acid. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 36, 96-101	6.3	7
81	Equilibrium and kinetics studies on the adsorption of substituted phenols by a Cu/Al layered double hydroxide intercalated with 1-naphthol-3,8-disulfonate. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 670, 322-328	5.7	7
80	Catalytic Degradation of Poly(ethylene terephthalate) for Benzene-rich Oil Recovery Using Metal Hydroxides. <i>Chemistry Letters</i> , <b>2014</b> , 43, 637-639	1.7	7
79	Thermal decomposition of SO <sub>4</sub> <sup>2-</sup> intercalated Mg/Al layered double hydroxide. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 110, 641-646	4.1	7
78	Preparation of Mg/Al layered double hydroxides intercalated with 1,3,6-naphthalenetrisulfonate and 3-amino-2,7-naphthalenedisulfonate and assessment of their selective uptake of aromatic compounds from aqueous solutions. <i>Solid State Sciences</i> , <b>2010</b> , 12, 946-951	3.4	7
77	Kinetics and equilibrium studies on the uptake of Nd <sup>3+</sup> by Zn/Al layered double hydroxide intercalated with triethylenetetramine-hexaacetic acid. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 191, 96-98	4.4	6
76	Fate of bisphenol A pyrolysates at low pyrolytic temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2017</b> , 125, 193-200	6	6
75	Treatment of NO by a combination of MnO <sub>2</sub> and a CO <sub>3</sub> <sup>2-</sup> intercalated Mg/Al layered double hydroxide. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	6
74	Specific uptake of aromatic compounds from aqueous solution by montmorillonite modified with tetraphenylphosphonium. <i>Journal of Physics and Chemistry of Solids</i> , <b>2012</b> , 73, 120-123	3.9	6
73	Effect of intercalated aromatic sulfonates on uptake of aromatic compounds from aqueous solutions by modified Mg/Al layered double hydroxide. <i>Materials Research Bulletin</i> , <b>2010</b> , 45, 751-753	5.1	6
72	Preparation of a hydrotalcite-like compound using calcined dolomite and polyaluminum chloride. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 2194-2197	4.3	6
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70	Direct Gas-Phase Derivatization by Employing Tandem $\mu$ Reactor-Gas Chromatography/Mass Spectrometry: Case Study of Trifluoroacetylation of 4,4'-Methylenedianiline. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 14924-14929	7.8	6
69	Hydrogen and steam injected tandem $\mu$ Reactor GC/FID system: phenol recovery from bisphenol A and alkylphenols using Ni/Y zeolite. <i>Reaction Chemistry and Engineering</i> , <b>2019</b> , 4, 2099-2107	4.9	6
68	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> , <b>2021</b> , 25, 100656	5.6	6
67	Influence of CO <sub>2</sub> gas on the rate and kinetics of HCl, SO <sub>2</sub> , and NO <sub>2</sub> gas removal by Mg-Al layered double hydroxide intercalated with CO <sub>3</sub> <sup>2-</sup> . <i>Applied Clay Science</i> , <b>2020</b> , 195, 105725	5.2	5
66	Adsorption of various metals by carboxymethyl- $\beta$ -cyclodextrin-modified Zn/Al layered double hydroxides. <i>Applied Clay Science</i> , <b>2020</b> , 187, 105479	5.2	5

65	Nucleophilic substitution of poly(vinyl chloride) with iminoacetic acid and n-dodecanethiol. <i>Journal of Material Cycles and Waste Management</i> , <b>2014</b> , 16, 519-524	3-4	5
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63	Treatment of NO and NO <sub>2</sub> with a Mg-Al oxide slurry. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2013</b> , 48, 86-91	2-3	5
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60	Effect of compatibility between solvent and poly(vinyl chloride) on dechlorination of poly(vinyl chloride). <i>Journal of Polymer Research</i> , <b>2010</b> , 17, 489-493	2-7	5
59	Synthesis of Hydrotalcite using Magnesium from Seawater and Dolomite. <i>Molecular Crystals and Liquid Crystals</i> , <b>2000</b> , 341, 407-412		5
58	Synthesis of MnO <sub>2</sub> /Mg-Al layered double hydroxide and evaluation of its NO-removal performance. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 867, 159038	5-7	5
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56	Analysis of F <sup>-</sup> removal from aqueous solutions using MgO. <i>Journal of Water Process Engineering</i> , <b>2018</b> , 25, 54-57	6-7	5
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51	Hydrotalcite synthesis using calcined dolomite as a magnesium and alkali resource. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 1747-1749		4
50	Effects of Acetic Acid Pretreatment and Pyrolysis Temperatures on Product Recovery from Fijian Sugarcane Bagasse. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 6347-6357	3-2	4
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48	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> , <b>2020</b> , 28, 2993-3001	3-2	4

47	Prediction of pyrolyzate yields by response surface methodology: A case study of cellulose and polyethylene co-pyrolysis. <i>Bioresource Technology</i> , <b>2021</b> , 337, 125435	11	4
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43	Continuous treatment of boron and fluoride in aqueous solutions using a column loaded with granulated MgAl layered double hydroxides intercalated with nitrates. <i>Journal of Water Process Engineering</i> , <b>2015</b> , 8, 195-201	6.7	3
42	Thermodynamic equilibrium analyses of the uptake of aromatic compounds from an aqueous solution by magnesiumaluminum (MgAl) layered double hydroxide intercalated with 1-naphthol-3,8-disulfonate. <i>Solid State Sciences</i> , <b>2013</b> , 20, 75-79	3.4	3
41	Treatment of gaseous hydrochloric acid with magnesiumaluminum oxide using batch operation. <i>Desalination</i> , <b>2011</b> , 280, 424-427	10.3	3
40	Fermentative Hydrogen Production From Food Waste Without Inocula. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	3
39	Synthesis of layered double hydroxide nanosheets in an aqueous solvent and their Ni <sup>2+</sup> uptake characteristics. <i>Applied Clay Science</i> , <b>2021</b> , 200, 105911	5.2	3
38	Desorption of Cl <sup>-</sup> from Mg-Al layered double hydroxide intercalated with Cl <sup>-</sup> using CO <sub>2</sub> gas and water. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 29, 131-134	3.2	3
37	Ammonia adsorption by L-type zeolite and Prussian blue from aqueous and culture solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 622, 126595	5.1	3
36	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> , <b>2020</b> , 22, 1620-1629	3.4	2
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34	Hybrid Inorganic/Organic Composites of Layered Double Hydroxides Intercalated with Organic Acid Anions for the Uptake of Hazardous Substances from Aqueous Solution <b>2011</b> ,		2
33	Preparation of Mg-Al layered double hydroxide intercalated with Coomassie Brilliant Blue R anion and its uptake of aromatic compounds from aqueous solutions. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2012</b> , 47, 2035-9	2.3	2
32	Treatment of waste H <sub>2</sub> O <sub>2</sub> with Mg-Al oxide obtained by calcination of NO <sub>2</sub> <sup>-</sup> intercalated Mg-Al layered double hydroxide: Kinetics and equilibrium. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2012</b> , 47, 711-7	2.3	2
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28	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> , <b>2020</b> , 5, 1805-1813	4.9	2
27	Continuous treatment of abandoned mine wastewater containing As and Fe using Mg/Al layered double hydroxides with flocculation. <i>International Journal of Environmental Science and Technology</i> , <b>2021</b> , 18, 4037	3.3	2
26	Quantification of Cellulose Pyrolyzates via a Tube Reactor and a Pyrolyzer-Gas Chromatograph/Flame Ionization Detector-Based System. <i>ACS Omega</i> , <b>2021</b> , 6, 12022-12026	3.9	2
25	Regeneration of carbonate-intercalated Mg/Al layered double hydroxides (CO <sub>3</sub> /Mg/Al LDHs) by CO <sub>2</sub> -induced desorption of anions (X) from X/Mg/Al LDH (X = Cl, SO <sub>4</sub> , or NO <sub>3</sub> ): A kinetic study. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 165, 207-213	5.5	2
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22	Equilibrium studies of the uptake of aromatic compounds from an aqueous solution by montmorillonite modified with tetraphenylphosphonium and amytriphenylphosphonium. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 625, 8-12	5.7	1
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20	Effect of the specific surface area of MgO on the treatment of boron and fluorine. <i>Applied Water Science</i> , <b>2020</b> , 10, 1	5	1
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18	Sodium hydroxide-assisted dechlorination of a poly(vinylidene chloride)-containing wrapping film in ethylene glycol solution. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 2663-2665	4.7	1
17	Combined Experiment, Simulation, and Ex-ante LCA Approach for Sustainable Cl Recovery from NaCl/Ethylene Glycol by Electrodialysis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 20112-20122	3.9	1
16	Current Issues and Future Prospects in Plastic Recycling. <i>Material Cycles and Waste Management Research</i> , <b>2018</b> , 29, 152-162	0	1
15	Preparation of Zn/Al layered double hydroxide intercalated with carboxymethyl-β-cyclodextrin by anion exchange method and its Ni <sup>2+</sup> adsorption property. <i>Soft Materials</i> , <b>2021</b> , 19, 139-147	1.7	1
14	Lactate adsorption by layered double hydroxides in aqueous solution and cell culture medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 612, 125975	5.1	1
13	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> , <b>2021</b> , 327, 337-344	1.5	1
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11	Removal of sulfate from wastewater via synthetic Mg-Al layered double hydroxide: An adsorption, kinetics, and thermodynamic study. <i>Journal of the Indian Chemical Society</i> , <b>2021</b> , 100185		1
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8	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> , <b>2021</b> , 9, 14112-14123	8.3	0
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1	Thermal decomposition behavior of MnO <sub>2</sub> /Mg-Al layered double hydroxide after removal and recovery of acid gas. <i>Results in Chemistry</i> , <b>2022</b> , 4, 100310	2.1	