Guangming Li

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	WEEE recovery strategies and the WEEE treatment status in China. Journal of Hazardous Materials, 2006, 136, 502-512.	12.4	286
2	Leaching lithium from the anode electrode materials of spent lithium-ion batteries by hydrochloric acid (HCl). Waste Management, 2016, 51, 227-233.	7.4	268
3	Hydrothermal conversion of carbohydrate biomass into formic acid at mild temperatures. Green Chemistry, 2008, 10, 612.	9.0	232
4	Recovery of Co and Li from spent lithium-ion batteries by combination method of acid leaching and chemical precipitation. Transactions of Nonferrous Metals Society of China, 2012, 22, 2274-2281.	4.2	213
5	Anaerobic digestion: An alternative resource treatment option for food waste in China. Science of the Total Environment, 2021, 779, 146397.	8.0	167
6	Application of hydrothermal reaction in resource recovery of organic wastes. Resources, Conservation and Recycling, 2008, 52, 691-699.	10.8	132
7	Effect of operating conditions on separation performance of reactive dye solution with membrane process. Journal of Membrane Science, 2008, 321, 183-189.	8.2	127
8	Evaluation of human thermal comfort near urban waterbody during summer. Building and Environment, 2010, 45, 1072-1080.	6.9	107
9	High-value utilization of waste tires: A review with focus on modified carbon black from pyrolysis. Science of the Total Environment, 2020, 742, 140235.	8.0	104
10	A review on management of spent lithium ion batteries and strategy for resource recycling of all components from them. Waste Management and Research, 2018, 36, 99-112.	3.9	102
11	Hydrothermal catalytic conversion of biomass for lactic acid production. Journal of Chemical Technology and Biotechnology, 2008, 83, 383-388.	3.2	88
12	Cathode ray tube (CRT) recycling: Current capabilities in China and research progress. Waste Management, 2012, 32, 1566-1574.	7.4	85
13	The development of WEEE management and effects of the fund policy for subsidizing WEEE treating in China. Waste Management, 2014, 34, 1705-1714.	7.4	84
14	Hydrothermal decomposition of brominated epoxy resin in waste printed circuit boards. Journal of Analytical and Applied Pyrolysis, 2011, 92, 131-136.	5.5	79
15	Occurrence and risk assessment of emerging contaminants in a water reclamation and ecological reuse project. Science of the Total Environment, 2020, 744, 140977.	8.0	73
16	Sustainable municipal waste management strategies through life cycle assessment method: A review. Journal of Environmental Management, 2021, 287, 112238.	7.8	73
17	Management status of waste lithium-ion batteries in China and a complete closed-circuit recycling process. Science of the Total Environment, 2021, 776, 145913.	8.0	66
18	Comparative life cycle assessment of LFP and NCM batteries including the secondary use and different recycling technologies. Science of the Total Environment, 2022, 819, 153105.	8.0	65

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19	The utilization of lime-dried sludge as resource for producing cement. Journal of Cleaner Production, 2014, 83, 286-293.	9.3	62
20	A review of microwave-assisted advanced oxidation processes for wastewater treatment. Chemosphere, 2022, 287, 131981.	8.2	61
21	Recovery of carbon black from waste tire in continuous commercial rotary kiln pyrolysis reactor. Science of the Total Environment, 2021, 772, 145507.	8.0	53
22	The situation of waste mobile phone management in developed countries and development status in China. Waste Management, 2016, 58, 341-347.	7.4	52
23	Recovery methods and regulation status of waste lithium-ion batteries in China: A mini review. Waste Management and Research, 2019, 37, 1142-1152.	3.9	51
24	Application of CaO2-enhanced peroxone process to adjust waste activated sludge characteristics for dewaterability amelioration: Molecular transformation of dissolved organic matters and realized mechanism of deep-dewatering. Chemical Engineering Journal, 2022, 437, 135306.	12.7	50
25	Process characteristics for microwave assisted hydrothermal carbonization of cellulose. Bioresource Technology, 2018, 259, 91-98.	9.6	49
26	Hydrothermal liquefaction of three kinds of starches into reducing sugars. Journal of Cleaner Production, 2016, 112, 1049-1054.	9.3	45
27	Facile preparation of Cu–Mn/CeO2/SBA-15 catalysts using ceria as an auxiliary for advanced oxidation processes. Journal of Materials Chemistry A, 2014, 2, 10654.	10.3	42
28	Preparing graphene from anode graphite of spent lithium-ion batteries. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	6.0	39
29	Environmental and economic evaluation of cathode ray tube (CRT) funnel glass waste management options in the United States. Resources, Conservation and Recycling, 2013, 78, 92-104.	10.8	38
30	A review on management of waste three-way catalysts and strategies for recovery of platinum group metals from them. Journal of Environmental Management, 2022, 305, 114383.	7.8	35
31	Phenyl-functionalized mesoporous silica materials for the rapid and efficient removal of phthalate esters. Journal of Colloid and Interface Science, 2017, 487, 354-359.	9.4	32
32	Preparing graphene oxide–copper composite material from spent lithium ion batteries and catalytic performance analysis. Research on Chemical Intermediates, 2018, 44, 5075-5089.	2.7	32
33	Upgrading pyrolytic carbon-blacks (CBp) from end-of-life tires: Characteristics and modification methodologies. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	6.0	31
34	Renovation of LiCoO2 crystal structure from spent lithium ion batteries by ultrasonic hydrothermal reaction. Research on Chemical Intermediates, 2015, 41, 3367-3373.	2.7	28
35	Ordered mesoporous silica/polyvinylidene fluoride composite membranes for effective removal of water contaminants. Journal of Materials Chemistry A, 2016, 4, 3850-3857.	10.3	28
36	Generation and management of waste electric vehicle batteries in China. Environmental Science and Pollution Research, 2017, 24, 20825-20830.	5.3	27

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37	Ultrasonic renovation mechanism of spent LCO batteries: A mild condition for cathode materials recycling. Resources, Conservation and Recycling, 2020, 162, 105019.	10.8	25
38	TiO ₂ interpenetrating networks decorated with SnO ₂ nanocrystals: enhanced activity of selective catalytic reduction of NO with NH ₃ . Journal of Materials Chemistry A, 2015, 3, 1405-1409.	10.3	24
39	Acetic acid production from the hydrothermal transformation of organics in waste liquid crystal display panels. Journal of Cleaner Production, 2016, 113, 925-930.	9.3	24
40	Preparation of a mesoporous Cu–Mn/TiO ₂ composite for the degradation of Acid Red 1. Journal of Materials Chemistry A, 2015, 3, 7399-7405.	10.3	23
41	Life cycle assessment of electricity generation from sugarcane bagasse hydrochar produced by microwave assisted hydrothermal carbonization. Journal of Cleaner Production, 2021, 291, 125980.	9.3	23
42	Resource recovery from waste LCD panel by hydrothermal transformation of polarizer into organic acids. Journal of Hazardous Materials, 2015, 299, 103-111.	12.4	21
43	Prediction of Life Cycle Carbon Emissions of Sponge City Projects: A Case Study in Shanghai, China. Sustainability, 2018, 10, 3978.	3.2	21
44	Leaching and purification of indium from waste liquid crystal display panel after hydrothermal pretreatment: Optimum conditions determination and kinetic analysis. Waste Management, 2020, 102, 635-644.	7.4	21
45	Diafiltration and water recovery of Reactive Brilliant Blue KN-R solution by two-stage membrane separation process. Chemical Engineering and Processing: Process Intensification, 2010, 49, 476-483.	3.6	20
46	Ultrasonic renovating and coating modifying spent lithium cobalt oxide from the cathode for the recovery and sustainable utilization of lithium-ion battery. Journal of Cleaner Production, 2020, 257, 120510.	9.3	20
47	Replacing commercial carbon black by pyrolytic residue from waste tire for tire processing: Technically feasible and economically reasonable. Science of the Total Environment, 2021, 793, 148597.	8.0	20
48	Characteristics of ammonia emission during thermal drying of lime sludge for co-combustion in cement kilns. Environmental Technology (United Kingdom), 2015, 36, 226-236.	2.2	19
49	Characteristic comparison of leaching valuable metals from spent power Li-ion batteries for vehicles using the inorganic and organic acid system. Journal of Environmental Chemical Engineering, 2022, 10, 107102.	6.7	18
50	Hydrothermal decomposition of liquid crystal in subcritical water. Journal of Hazardous Materials, 2014, 271, 236-244.	12.4	17
51	Mathematical analysis of the gas–solid fluidized bed separation of metals and nonmetals from waste PCB powders. Powder Technology, 2016, 295, 142-151.	4.2	17
52	The improved treatment of liquid crystals into non-hazardous molecules using a microwave-assisted hydrothermal method. Journal of Hazardous Materials, 2020, 393, 122351.	12.4	17
53	Generation, collection and transportation, disposal and recycling of kitchen waste: A case study in Shanghai. Waste Management and Research, 2014, 32, 245-248.	3.9	16
54	The effect of dielectric exclusion on the rejection performance of inhomogeneously charged polyamide nanofiltration membranes. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	16

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55	Estimating the impact of the home appliances trade-in policy on WEEE management in China. Waste Management and Research, 2012, 30, 1213-1221.	3.9	15
56	The integrated design and optimization of a WEEE collection network in Shanghai, China. Waste Management and Research, 2013, 31, 910-919.	3.9	15
57	Unveiling the recycling characteristics and trends of spent lithium-ion battery: a scientometric study. Environmental Science and Pollution Research, 2022, 29, 9448-9461.	5.3	13
58	Greenhouse gases emissions from solid waste: an analysis of Expo 2010 Shanghai, China. Journal of Material Cycles and Waste Management, 2014, 16, 616-622.	3.0	12
59	Highly Selective Copper and Nickel Separation and Recovery from Electroplating Sludge in Light Industry. Polish Journal of Environmental Studies, 2015, 24, 367-374.	1.2	12
60	Conversion of phoenix tree leaves into hydro-char by microwave-assisted hydrothermal carbonization. Bioresource Technology Reports, 2020, 9, 100353.	2.7	12
61	Diafiltration and concentration of Reactive Brilliant Blue KN-R solution by two-stage ultrafiltration process at pilot scale: Technical and economic feasibility. Desalination, 2011, 279, 235-242.	8.2	11
62	An assessment on Shanghai's energy and environment impacts of using MARKAL model. Journal of Renewable and Sustainable Energy, 2015, 7, 013105.	2.0	11
63	Environmental Impact Assessment on the Recycling of Waste LCD Panels. ACS Sustainable Chemistry and Engineering, 2019, 7, 6360-6368.	6.7	11
64	Micronization of the officinal component baicalin by SEDS-PA process. Crystal Research and Technology, 2007, 42, 631-638.	1.3	10
65	The averaged potential gradient approach to model the rejection of electrolyte solutions using nanofiltration: Model development and assessment for highly concentrated feed solutions. Separation and Purification Technology, 2015, 153, 126-137.	7.9	10
66	Wet compounding with pyrolytic carbon black from waste tyre for manufacture of new tyre – A mini review. Waste Management and Research, 2021, 39, 1440-1450.	3.9	10
67	Membrane technology: Reactive dyes and cleaner production. Filtration and Separation, 2007, 44, 22-24.	0.0	8
68	Facile Preparation of Nanocryptomelane and Its Application in the Treatment of Aqueous Solutions Containing Basic Fuchsin. Industrial & Engineering Chemistry Research, 2012, 51, 16188-16195.	3.7	8
69	Transformation of waste crystalline silicon into submicro Î ² -SiC by multimode microwave sintering with low carbon emissions. Powder Technology, 2017, 322, 290-295.	4.2	8
70	Process evaluation of urban river replenished with reclaimed water from a wastewater treatment plant based on the risk of algal bloom and comprehensive acute toxicity. Journal of Water Reuse and Desalination, 2022, 12, 1-10.	2.3	8
71	Mechanism of dispersing an active component into a polymeric carrier by the SEDS-PA process. Journal of Materials Science, 2010, 45, 467-474.	3.7	7
72	Production of acetic acid from liquid crystal display waste by use of a hydrothermal method. Research on Chemical Intermediates, 2013, 39, 2495-2504.	2.7	7

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73	Synthesis of TiO ₂ and TiO ₂ -Pt and Their Application in Photocatalytic Degradation of Humic Acid. Water Environment Research, 2014, 86, 48-55.	2.7	7
74	The decomposition process and kinetic analysis of benzene-based liquid crystal in hydrothermal system. Chemical Engineering Journal, 2017, 326, 1177-1185.	12.7	7
75	Effects of Municipal Sewage Sludge on Fixation of Cr, Ni, Cu, and Zn during Co-processing of Heavy Metal-containing Waste in Cement Kilns. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 892-900.	1.0	7
76	Degradation process regulation of waste LCD panel to ensure the remain of indium in solid phase by hydrothermal reaction. Journal of Hazardous Materials, 2019, 369, 125-131.	12.4	7
77	Recovering copper from spent lithium ion battery by a mechanical separation process. , 2011, , .		6
78	Utilization of lime-dried sludge for eco-cement clinker production: effects of different feeding points. Water Science and Technology, 2018, 77, 960-970.	2.5	6
79	Tunable dielectric constant of water confined in graphene oxide nanochannels. Journal of Molecular Liquids, 2021, 324, 115139.	4.9	6
80	A Novel Sample Pretreatment Method for the Analysis of Polybrominated Diphenyl Ethers in Polymers of Waste Electrical and Electronic Equipment (WEEE). Chinese Journal of Chemistry, 2010, 28, 1475-1481.	4.9	5
81	Algae separation from urban landscape water using a high density microbubble layer enhanced by micro-flocculation. Water Science and Technology, 2014, 70, 811-818.	2.5	5
82	Use of Ultrasound in the Washing Process of Titania Pigment Production: Water Saving and Process Optimization. Chemical Engineering Communications, 2016, 203, 1207-1215.	2.6	5
83	Research and Demonstration of Dynamic Intelligent Logistics System of the Collection and Transportation Process of Giant Municipal Garbage. Lecture Notes in Electrical Engineering, 2015, , 39-50.	0.4	5
84	Ultrarapid Multimode Microwave Synthesis of Nano/Submicron Î ² -SiC. Materials, 2018, 11, 317.	2.9	4
85	Information Technology Based Municipal Solid Waste Management in Shanghai, China. Advanced Materials Research, 0, 1073-1076, 911-914.	0.3	3
86	Environmental and economic evaluation of cathode ray tube (CRT) funnel glass waste management options in the United States. , 2016, , 309-310.		3
87	Preparation of rare-earth metal complex oxide catalysts for catalytic wet air oxidation. Frontiers of Environmental Science and Engineering in China, 2007, 1, 190-195.	0.8	1
88	Cooxidation of Aqueous Phenol under Hydrothermal and Electrochemical Oxidation Situation with Particles of Mn-Sn-Sb/Gamma-Al2O3. , 2008, , .		1
89	Preparation of a Composite Plate Using Nonmetallic Materials Powder from the Waste Printed Circuit Boards. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
90	Heavy Metal Pollution in the Surface Dust from E-Waste Disposal Place and its Ecological Risk Assessment. Advanced Materials Research, 0, 347-353, 2360-2364.	0.3	1

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91	Study on the Oxidation and Degradation of Phenol Wastewater by Synthetic Cryptomelane. Advanced Materials Research, 0, 347-353, 1358-1361.	0.3	1
92	Study on Kitchen Waste Characteristics of Different Catering Types in Shanghai. Advanced Materials Research, 2014, 878, 427-432.	0.3	1
93	The Research of Resource Utilization of Sludge as Additives for Cement Building Materials. Advanced Materials Research, 2014, 997, 882-885.	0.3	1
94	Hydrothermal Treatment of Liquid Crystal Using a Batch Reactor. Advanced Materials Research, 2014, 878, 563-568.	0.3	1
95	Characteristics of Food Residue in Accordance with Catering Habits. Advanced Materials Research, 2014, 878, 459-465.	0.3	1
96	The Generation and Effects for Recyclable Waste from Households in a Megapolis: A Case Study in Shanghai. Sustainability, 2022, 14, 7854.	3.2	1
97	Assessment of Sustainable Development using Multivariate Statistical Techniques and Ecological Indicators: A Case Study of Wenzhou, China. , 2008, , .		0
98	A Fuzzy Analytic Hierarchy Process Application in Comprehensive Evaluation of Artificial Landscape Water Health. , 2009, , .		0
99	Characteristic and Metabolic pathways of 2,6-Di-tert-butylphenol degradation by Alcaligenes F-3-4. , 2011, , .		0
100	Notice of Retraction: Trimetallic Catalysts for Continuous Catalytic Oxidation of Aqueous Phenol. , 2011, , .		0
101	Shanghai's CO ₂ Emissions and Policy Implication for Low Carbon Construction. Advanced Materials Research, 0, 869-870, 893-897.	0.3	Ο
102	Study on Recovery of Metals from Printed Circuit Board Using a Gas-Liquid Fluidized Bed. Advanced Materials Research, 0, 997, 638-641.	0.3	0
103	World Expo 2010 Promotes the Reduction in Carbon Emissions of Urban Transport. Applied Mechanics and Materials, 2014, 522-524, 1826-1830.	0.2	0
104	Research Review of Recycling of Nonmetal Fraction from Waste Print Circuit Boards Treatment. Advanced Materials Research, 0, 997, 831-834.	0.3	0