

# Guangming Li

## List of Publications by Year in descending order

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104  
papers

3,742  
citations

168829

31  
h-index

156644

58  
g-index

109  
all docs

109  
docs citations

109  
times ranked

4149  
citing authors

#	ARTICLE	IF	CITATIONS
1	WEEE recovery strategies and the WEEE treatment status in China. <i>Journal of Hazardous Materials</i> , 2006, 136, 502-512.	6.5	286
2	Leaching lithium from the anode electrode materials of spent lithium-ion batteries by hydrochloric acid (HCl). <i>Waste Management</i> , 2016, 51, 227-233.	3.7	268
3	Hydrothermal conversion of carbohydrate biomass into formic acid at mild temperatures. <i>Green Chemistry</i> , 2008, 10, 612.	4.6	232
4	Recovery of Co and Li from spent lithium-ion batteries by combination method of acid leaching and chemical precipitation. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 2274-2281.	1.7	213
5	Anaerobic digestion: An alternative resource treatment option for food waste in China. <i>Science of the Total Environment</i> , 2021, 779, 146397.	3.9	167
6	Application of hydrothermal reaction in resource recovery of organic wastes. <i>Resources, Conservation and Recycling</i> , 2008, 52, 691-699.	5.3	132
7	Effect of operating conditions on separation performance of reactive dye solution with membrane process. <i>Journal of Membrane Science</i> , 2008, 321, 183-189.	4.1	127
8	Evaluation of human thermal comfort near urban waterbody during summer. <i>Building and Environment</i> , 2010, 45, 1072-1080.	3.0	107
9	High-value utilization of waste tires: A review with focus on modified carbon black from pyrolysis. <i>Science of the Total Environment</i> , 2020, 742, 140235.	3.9	104
10	A review on management of spent lithium ion batteries and strategy for resource recycling of all components from them. <i>Waste Management and Research</i> , 2018, 36, 99-112.	2.2	102
11	Hydrothermal catalytic conversion of biomass for lactic acid production. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 383-388.	1.6	88
12	Cathode ray tube (CRT) recycling: Current capabilities in China and research progress. <i>Waste Management</i> , 2012, 32, 1566-1574.	3.7	85
13	The development of WEEE management and effects of the fund policy for subsidizing WEEE treating in China. <i>Waste Management</i> , 2014, 34, 1705-1714.	3.7	84
14	Hydrothermal decomposition of brominated epoxy resin in waste printed circuit boards. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 92, 131-136.	2.6	79
15	Occurrence and risk assessment of emerging contaminants in a water reclamation and ecological reuse project. <i>Science of the Total Environment</i> , 2020, 744, 140977.	3.9	73
16	Sustainable municipal waste management strategies through life cycle assessment method: A review. <i>Journal of Environmental Management</i> , 2021, 287, 112238.	3.8	73
17	Management status of waste lithium-ion batteries in China and a complete closed-circuit recycling process. <i>Science of the Total Environment</i> , 2021, 776, 145913.	3.9	66
18	Comparative life cycle assessment of LFP and NCM batteries including the secondary use and different recycling technologies. <i>Science of the Total Environment</i> , 2022, 819, 153105.	3.9	65

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19	The utilization of lime-dried sludge as resource for producing cement. <i>Journal of Cleaner Production</i> , 2014, 83, 286-293.	4.6	62
20	A review of microwave-assisted advanced oxidation processes for wastewater treatment. <i>Chemosphere</i> , 2022, 287, 131981.	4.2	61
21	Recovery of carbon black from waste tire in continuous commercial rotary kiln pyrolysis reactor. <i>Science of the Total Environment</i> , 2021, 772, 145507.	3.9	53
22	The situation of waste mobile phone management in developed countries and development status in China. <i>Waste Management</i> , 2016, 58, 341-347.	3.7	52
23	Recovery methods and regulation status of waste lithium-ion batteries in China: A mini review. <i>Waste Management and Research</i> , 2019, 37, 1142-1152.	2.2	51
24	Application of CaO <sub>2</sub> -enhanced peroxone process to adjust waste activated sludge characteristics for dewaterability amelioration: Molecular transformation of dissolved organic matters and realized mechanism of deep-dewatering. <i>Chemical Engineering Journal</i> , 2022, 437, 135306.	6.6	50
25	Process characteristics for microwave assisted hydrothermal carbonization of cellulose. <i>Bioresource Technology</i> , 2018, 259, 91-98.	4.8	49
26	Hydrothermal liquefaction of three kinds of starches into reducing sugars. <i>Journal of Cleaner Production</i> , 2016, 112, 1049-1054.	4.6	45
27	Facile preparation of Cu-Mn/CeO <sub>2</sub> /SBA-15 catalysts using ceria as an auxiliary for advanced oxidation processes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10654.	5.2	42
28	Preparing graphene from anode graphite of spent lithium-ion batteries. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	3.3	39
29	Environmental and economic evaluation of cathode ray tube (CRT) funnel glass waste management options in the United States. <i>Resources, Conservation and Recycling</i> , 2013, 78, 92-104.	5.3	38
30	A review on management of waste three-way catalysts and strategies for recovery of platinum group metals from them. <i>Journal of Environmental Management</i> , 2022, 305, 114383.	3.8	35
31	Phenyl-functionalized mesoporous silica materials for the rapid and efficient removal of phthalate esters. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 354-359.	5.0	32
32	Preparing graphene oxide-copper composite material from spent lithium ion batteries and catalytic performance analysis. <i>Research on Chemical Intermediates</i> , 2018, 44, 5075-5089.	1.3	32
33	Upgrading pyrolytic carbon-blacks (CBp) from end-of-life tires: Characteristics and modification methodologies. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	3.3	31
34	Renovation of LiCoO <sub>2</sub> crystal structure from spent lithium ion batteries by ultrasonic hydrothermal reaction. <i>Research on Chemical Intermediates</i> , 2015, 41, 3367-3373.	1.3	28
35	Ordered mesoporous silica/polyvinylidene fluoride composite membranes for effective removal of water contaminants. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3850-3857.	5.2	28
36	Generation and management of waste electric vehicle batteries in China. <i>Environmental Science and Pollution Research</i> , 2017, 24, 20825-20830.	2.7	27

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37	Ultrasonic renovation mechanism of spent LCO batteries: A mild condition for cathode materials recycling. <i>Resources, Conservation and Recycling</i> , 2020, 162, 105019.	5.3	25
38	TiO <sub>2</sub> interpenetrating networks decorated with SnO <sub>2</sub> nanocrystals: enhanced activity of selective catalytic reduction of NO with NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , 2015, 3, 1405-1409.	5.2	24
39	Acetic acid production from the hydrothermal transformation of organics in waste liquid crystal display panels. <i>Journal of Cleaner Production</i> , 2016, 113, 925-930.	4.6	24
40	Preparation of a mesoporous Cu-Mn/TiO <sub>2</sub> composite for the degradation of Acid Red 1. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7399-7405.	5.2	23
41	Life cycle assessment of electricity generation from sugarcane bagasse hydrochar produced by microwave assisted hydrothermal carbonization. <i>Journal of Cleaner Production</i> , 2021, 291, 125980.	4.6	23
42	Resource recovery from waste LCD panel by hydrothermal transformation of polarizer into organic acids. <i>Journal of Hazardous Materials</i> , 2015, 299, 103-111.	6.5	21
43	Prediction of Life Cycle Carbon Emissions of Sponge City Projects: A Case Study in Shanghai, China. <i>Sustainability</i> , 2018, 10, 3978.	1.6	21
44	Leaching and purification of indium from waste liquid crystal display panel after hydrothermal pretreatment: Optimum conditions determination and kinetic analysis. <i>Waste Management</i> , 2020, 102, 635-644.	3.7	21
45	Diafiltration and water recovery of Reactive Brilliant Blue KN-R solution by two-stage membrane separation process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 476-483.	1.8	20
46	Ultrasonic renovating and coating modifying spent lithium cobalt oxide from the cathode for the recovery and sustainable utilization of lithium-ion battery. <i>Journal of Cleaner Production</i> , 2020, 257, 120510.	4.6	20
47	Replacing commercial carbon black by pyrolytic residue from waste tire for tire processing: Technically feasible and economically reasonable. <i>Science of the Total Environment</i> , 2021, 793, 148597.	3.9	20
48	Characteristics of ammonia emission during thermal drying of lime sludge for co-combustion in cement kilns. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 226-236.	1.2	19
49	Characteristic comparison of leaching valuable metals from spent power Li-ion batteries for vehicles using the inorganic and organic acid system. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107102.	3.3	18
50	Hydrothermal decomposition of liquid crystal in subcritical water. <i>Journal of Hazardous Materials</i> , 2014, 271, 236-244.	6.5	17
51	Mathematical analysis of the gas-solid fluidized bed separation of metals and nonmetals from waste PCB powders. <i>Powder Technology</i> , 2016, 295, 142-151.	2.1	17
52	The improved treatment of liquid crystals into non-hazardous molecules using a microwave-assisted hydrothermal method. <i>Journal of Hazardous Materials</i> , 2020, 393, 122351.	6.5	17
53	Generation, collection and transportation, disposal and recycling of kitchen waste: A case study in Shanghai. <i>Waste Management and Research</i> , 2014, 32, 245-248.	2.2	16
54	The effect of dielectric exclusion on the rejection performance of inhomogeneously charged polyamide nanofiltration membranes. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	16

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55	Estimating the impact of the home appliances trade-in policy on WEEE management in China. <i>Waste Management and Research</i> , 2012, 30, 1213-1221.	2.2	15
56	The integrated design and optimization of a WEEE collection network in Shanghai, China. <i>Waste Management and Research</i> , 2013, 31, 910-919.	2.2	15
57	Unveiling the recycling characteristics and trends of spent lithium-ion battery: a scientometric study. <i>Environmental Science and Pollution Research</i> , 2022, 29, 9448-9461.	2.7	13
58	Greenhouse gases emissions from solid waste: an analysis of Expo 2010 Shanghai, China. <i>Journal of Material Cycles and Waste Management</i> , 2014, 16, 616-622.	1.6	12
59	Highly Selective Copper and Nickel Separation and Recovery from Electroplating Sludge in Light Industry. <i>Polish Journal of Environmental Studies</i> , 2015, 24, 367-374.	0.6	12
60	Conversion of phoenix tree leaves into hydro-char by microwave-assisted hydrothermal carbonization. <i>Bioresource Technology Reports</i> , 2020, 9, 100353.	1.5	12
61	Diafiltration and concentration of Reactive Brilliant Blue KN-R solution by two-stage ultrafiltration process at pilot scale: Technical and economic feasibility. <i>Desalination</i> , 2011, 279, 235-242.	4.0	11
62	An assessment on Shanghai's energy and environment impacts of using MARKAL model. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, 013105.	0.8	11
63	Environmental Impact Assessment on the Recycling of Waste LCD Panels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6360-6368.	3.2	11
64	Micronization of the officinal component baicalin by SEDS-PA process. <i>Crystal Research and Technology</i> , 2007, 42, 631-638.	0.6	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. <i>Separation and Purification Technology</i> , 2015, 153, 126-137.	3.9	10
66	Wet compounding with pyrolytic carbon black from waste tyre for manufacture of new tyre – A mini review. <i>Waste Management and Research</i> , 2021, 39, 1440-1450.	2.2	10
67	Membrane technology: Reactive dyes and cleaner production. <i>Filtration and Separation</i> , 2007, 44, 22-24.	0.2	8
68	Facile Preparation of Nanocryptomelane and Its Application in the Treatment of Aqueous Solutions Containing Basic Fuchsin. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 16188-16195.	1.8	8
69	Transformation of waste crystalline silicon into submicro $\beta$ -SiC by multimode microwave sintering with low carbon emissions. <i>Powder Technology</i> , 2017, 322, 290-295.	2.1	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. <i>Journal of Water Reuse and Desalination</i> , 2022, 12, 1-10.	1.2	8
71	Mechanism of dispersing an active component into a polymeric carrier by the SEDS-PA process. <i>Journal of Materials Science</i> , 2010, 45, 467-474.	1.7	7
72	Production of acetic acid from liquid crystal display waste by use of a hydrothermal method. <i>Research on Chemical Intermediates</i> , 2013, 39, 2495-2504.	1.3	7

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73	Synthesis of TiO <sub>2</sub> and TiO <sub>2</sub> -Pt and Their Application in Photocatalytic Degradation of Humic Acid. <i>Water Environment Research</i> , 2014, 86, 48-55.	1.3	7
74	The decomposition process and kinetic analysis of benzene-based liquid crystal in hydrothermal system. <i>Chemical Engineering Journal</i> , 2017, 326, 1177-1185.	6.6	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. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 892-900.	0.4	7
76	Degradation process regulation of waste LCD panel to ensure the remain of indium in solid phase by hydrothermal reaction. <i>Journal of Hazardous Materials</i> , 2019, 369, 125-131.	6.5	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. <i>Water Science and Technology</i> , 2018, 77, 960-970.	1.2	6
79	Tunable dielectric constant of water confined in graphene oxide nanochannels. <i>Journal of Molecular Liquids</i> , 2021, 324, 115139.	2.3	6
80	A Novel Sample Pretreatment Method for the Analysis of Polybrominated Diphenyl Ethers in Polymers of Waste Electrical and Electronic Equipment (WEEE). <i>Chinese Journal of Chemistry</i> , 2010, 28, 1475-1481.	2.6	5
81	Algae separation from urban landscape water using a high density microbubble layer enhanced by micro-flocculation. <i>Water Science and Technology</i> , 2014, 70, 811-818.	1.2	5
82	Use of Ultrasound in the Washing Process of Titania Pigment Production: Water Saving and Process Optimization. <i>Chemical Engineering Communications</i> , 2016, 203, 1207-1215.	1.5	5
83	Research and Demonstration of Dynamic Intelligent Logistics System of the Collection and Transportation Process of Giant Municipal Garbage. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 39-50.	0.3	5
84	Ultrarapid Multimode Microwave Synthesis of Nano/Submicron $\hat{I}^2$ -SiC. <i>Materials</i> , 2018, 11, 317.	1.3	4
85	Information Technology Based Municipal Solid Waste Management in Shanghai, China. <i>Advanced Materials Research</i> , 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. <i>Frontiers of Environmental Science and Engineering in China</i> , 2007, 1, 190-195.	0.8	1
88	Cooxidation of Aqueous Phenol under Hydrothermal and Electrochemical Oxidation Situation with Particles of Mn-Sn-Sb/ $\Gamma$ -Al <sub>2</sub> O <sub>3</sub> . , 2008, , .		1
89	Preparation of a Composite Plate Using Nonmetallic Materials Powder from the Waste Printed Circuit Boards. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	1
90	Heavy Metal Pollution in the Surface Dust from E-Waste Disposal Place and its Ecological Risk Assessment. <i>Advanced Materials Research</i> , 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.	1.6	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 <sub>2</sub> Emissions and Policy Implication for Low Carbon Construction. Advanced Materials Research, 0, 869-870, 893-897.	0.3	0
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