

Bo Liu

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,242
citations

236925

25
h-index

223800

46
g-index

52
all docs

52
docs citations

52
times ranked

1869
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of precious metals from electronic waste and spent catalysts: A review. Resources, Conservation and Recycling, 2019, 141, 284-298.	10.8	275
2	Supply and demand of some critical metals and present status of their recycling in WEEE. Waste Management, 2017, 65, 113-127.	7.4	198
3	The mechanisms of heavy metal immobilization by cementitious material treatments and thermal treatments: A review. Journal of Environmental Management, 2017, 193, 410-422.	7.8	189
4	A review of Mn-containing oxide catalysts for low temperature selective catalytic reduction of NO _x with NH ₃ : reaction mechanism and catalyst deactivation. RSC Advances, 2017, 7, 26226-26242.	3.6	135
5	Degradation technologies and mechanisms of dioxins in municipal solid waste incineration fly ash: A review. Journal of Cleaner Production, 2020, 250, 119507.	9.3	111
6	Immobilization mechanism of Pb in fly ash-based geopolymer. Construction and Building Materials, 2017, 134, 123-130.	7.2	102
7	The Advancement of 7XXX Series Aluminum Alloys for Aircraft Structures: A Review. Metals, 2021, 11, 718.	2.3	96
8	A review of glass ceramic foams prepared from solid wastes: Processing, heavy-metal solidification and volatilization, applications. Science of the Total Environment, 2021, 781, 146727.	8.0	70
9	Challenges in legislation, recycling system and technical system of waste electrical and electronic equipment in China. Waste Management, 2015, 45, 361-373.	7.4	64
10	Highly efficient recovery of platinum, palladium, and rhodium from spent automotive catalysts via iron melting collection. Resources, Conservation and Recycling, 2020, 155, 104644.	10.8	64
11	Study on glass-ceramics made from MSWI fly ash, pickling sludge and waste glass by one-step process. Journal of Cleaner Production, 2020, 271, 122674.	9.3	62
12	Effect of oxygen vacancies on ceria catalyst for selective catalytic reduction of NO with NH ₃ . Applied Surface Science, 2020, 529, 147068.	6.1	60
13	Preparation and characterization of glass ceramic foams based on municipal solid waste incineration ashes using secondary aluminum ash as foaming agent. Construction and Building Materials, 2020, 262, 120781.	7.2	58
14	Separation and purification of platinum group metals from aqueous solution: Recent developments and industrial applications. Resources, Conservation and Recycling, 2021, 167, 105417.	10.8	50
15	Microstructure evolution of recycled 7075 aluminum alloy and its mechanical and corrosion properties. Journal of Alloys and Compounds, 2021, 879, 160407.	5.5	40
16	An Efficient Leaching of Palladium from Spent Catalysts through Oxidation with Fe(III). Materials, 2019, 12, 1205.	2.9	39
17	Suppression of N ₂ O formation by H ₂ O and SO ₂ in the selective catalytic reduction of NO with NH ₃ over a Mn/Ti-Si catalyst. Catalysis Science and Technology, 2019, 9, 4759-4770.	4.1	37
18	Integrated process for recycling copper anode slime from electronic waste smelting. Journal of Cleaner Production, 2017, 165, 48-56.	9.3	36

#	ARTICLE	IF	CITATIONS
19	Production of glass-ceramics using Municipal solid waste incineration fly ash. <i>Rare Metals</i> , 2019, 38, 245-251.	7.1	36
20	Recovery of Platinum from Spent Petroleum Catalysts: Optimization Using Response Surface Methodology. <i>Metals</i> , 2019, 9, 354.	2.3	33
21	Integrated utilization of municipal solid waste incineration fly ash and bottom ash for preparation of foam glass-ceramics. <i>Rare Metals</i> , 2019, 38, 914-921.	7.1	32
22	Crystallization mechanism of glass-ceramics prepared from stainless steel slag. <i>Rare Metals</i> , 2018, 37, 413-420.	7.1	28
23	High N_2 selectivity in selective catalytic reduction of NO with NH_3 over Mn/Ti-Zr catalysts. <i>RSC Advances</i> , 2018, 8, 12733-12741.	3.6	28
24	Microstructure evolution and properties of 7075 aluminum alloy recycled from scrap aircraft aluminum alloys. <i>Journal of Materials Research and Technology</i> , 2022, 19, 354-367.	5.8	28
25	Treatment method of hazardous pickling sludge by reusing as glass-ceramics nucleation agent. <i>Rare Metals</i> , 2016, 35, 269-274.	7.1	27
26	Highly porous ceramics production using slags from smelting of spent automotive catalysts. <i>Resources, Conservation and Recycling</i> , 2021, 166, 105373.	10.8	26
27	Migration, transformation and solidification/stabilization mechanisms of heavy metals in glass-ceramics made from MSWI fly ash and pickling sludge. <i>Ceramics International</i> , 2021, 47, 21599-21609.	4.8	25
28	Glass-ceramics one-step crystallization accomplished by building Ca^{2+} and Mg^{2+} fast diffusion layer around diopside crystal. <i>Journal of Alloys and Compounds</i> , 2016, 688, 709-714.	5.5	24
29	Selective catalytic reduction of NO _x with NH ₃ over Mn-Zr-Ti mixed oxide catalysts. <i>Journal of Materials Science</i> , 2019, 54, 6943-6960.	3.7	21
30	Emerging pollutants—Part II: Treatment. <i>Water Environment Research</i> , 2019, 91, 1390-1401.	2.7	20
31	Synergistic effect of cobalt and niobium in Co ₃ -Nb-Ox on performance of selective catalytic reduction of NO with NH ₃ . <i>Rare Metals</i> , 2022, 41, 166-178.	7.1	19
32	Synthesis and Characterization of Micaceous Iron Oxide Pigment from Oily Cold Rolling Mill Sludge. <i>Procedia Environmental Sciences</i> , 2016, 31, 653-661.	1.4	17
33	Preparation of glass-ceramics from high-chlorine MSWI fly ash by one-step process. <i>Rare Metals</i> , 2021, 40, 3316-3328.	7.1	17
34	A novel approach for preparing glass ceramic foams from MSWI fly ash: foaming characteristics and hierarchical pore formation mechanism. <i>Journal of Materials Research and Technology</i> , 2022, 18, 731-744.	5.8	17
35	Phase evolution and properties of glass ceramic foams prepared by bottom ash, fly ash and pickling sludge. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 563-573.	4.9	16
36	Recycling of extracted titanium slag and gold tailings for preparation of self-glazed ceramic foams. <i>Ceramics International</i> , 2022, 48, 23415-23427.	4.8	14

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37	Strontium ferrite powders prepared from oily cold rolling mill sludge by solid-state reaction method. <i>Rare Metals</i> , 2013, 32, 518-523.	7.1	13
38	Emerging pollutantsâ€™ Part II: Treatment. <i>Water Environment Research</i> , 2020, 92, 1603-1617.	2.7	12
39	Homogeneous reduction for heavy metals from pickling sludge with aluminum nitride from secondary aluminum dross in aluminosilicate melt â€™solutionâ€™™ environment. <i>Journal of Cleaner Production</i> , 2022, 362, 132358.	9.3	11
40	Process and mechanism of electrolytic enrichment of PGMs from Fe-PGMs alloy. <i>Journal of Cleaner Production</i> , 2020, 271, 122829.	9.3	10
41	Phase transition during nucleation process in calcium aluminate glass-ceramics manufactured from secondary aluminum dross. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165010.	5.5	10
42	Hierarchically porous glassâ€™ceramics by alkaline activation and crystallization from municipal solid waste incineration ashes. <i>Journal of Cleaner Production</i> , 2022, 364, 132693.	9.3	10
43	Controlling the Composition and Magnetic Properties of Nano-SrFe ₁₂ O ₁₉ Powder Synthesized from Oily Cold Mill Sludge by the Citrate Precursor Method. <i>Materials</i> , 2019, 12, 1250.	2.9	9
44	Promotion effect of niobium on ceria catalyst for selective catalytic reduction of NO with NH ₃ . <i>Journal of Rare Earths</i> , 2022, 40, 1535-1545.	4.8	9
45	Theoretical and experimental on the thermodynamic, kinetic and phase evolution characteristics of secondary aluminum ash. <i>Journal of Materials Research and Technology</i> , 2022, 19, 3857-3866.	5.8	8
46	Using coal fly ash-based geopolymer to immobilize Cd from lead fuming furnace slag. <i>Rare Metals</i> , 2023, 42, 1056-1060.	7.1	7
47	Bonded cylindrical Terfenol-D-epoxy/PZT magnetoelectric composites prepared by the one-step compression molding. <i>AIP Advances</i> , 2015, 5, .	1.3	6
48	Preparation and formation mechanism of monodisperse micaceous iron oxide from iron chromium grinding waste. <i>Powder Technology</i> , 2018, 329, 401-408.	4.2	6
49	Recovery of Fe, Cr and Ni in pickling sludge with aluminum nitride in secondary aluminum dross. <i>Minerals Engineering</i> , 2022, 184, 107659.	4.3	6
50	Comparative study on transition element doped Mnâ€™Zrâ€™Ti-oxides catalysts for the low-temperature selective catalytic reduction of NO with NH ₃ . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 127, 637-652.	1.7	5
51	Polymer content and particle size effects on polymer-bonded Terfenol-D/PZT magnetoelectric composites. <i>Materials Letters</i> , 2016, 175, 93-95.	2.6	3
52	Tar induced deactivation and regeneration of a commercial V ₂ O ₅ -MoO ₃ /TiO ₂ catalyst during selective catalytic reduction of NO with NH ₃ . <i>Fuel</i> , 2022, 316, 123324.	6.4	3