Zuotai Zhang

List of Publications by Year in descending order

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44042 79644 6,943 167 48 73 citations h-index g-index papers 172 172 172 5337 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Enhanced catalytic performance by multi-field coupling in KNbO3 nanostructures: Piezo-photocatalytic and ferro-photoelectrochemical effects. Nano Energy, 2019, 58, 695-705.	8.2	240
2	Preparation of glass ceramic foams for thermal insulation applications from coal fly ash and waste glass. Construction and Building Materials, 2016, 112, 398-405.	3.2	211
3	Recent Advances of Ferro-, Piezo-, and Pyroelectric Nanomaterials for Catalytic Applications. ACS Applied Nano Materials, 2020, 3, 1063-1079.	2.4	205
4	Few-layer transition metal dichalcogenides (MoS2, WS2, and WSe2) for water splitting and degradation of organic pollutants: Understanding the piezocatalytic effect. Nano Energy, 2019, 66, 104083.	8.2	181
5	A novel method for screening deep eutectic solvent to recycle the cathode of Li-ion batteries. Green Chemistry, 2020, 22, 4473-4482.	4.6	158
6	Calcium-looping reforming of methane realizes in situ CO ₂ utilization with improved energy efficiency. Science Advances, 2019, 5, eaav5077.	4.7	153
7	Atomically Dispersed Cobalt Sites on Graphene as Efficient Periodate Activators for Selective Organic Pollutant Degradation. Environmental Science & Environmental Science & 2021, 55, 5357-5370.	4.6	149
8	In situ DRIFTS investigation on the SCR of NO with NH3 over V2O5 catalyst supported by activated semi-coke. Applied Surface Science, 2014, 313, 660-669.	3.1	145
9	COVID-19 waste management: Effective and successful measures in Wuhan, China. Resources, Conservation and Recycling, 2020, 163, 105071.	5.3	132
10	Environmental investigation on co-combustion of sewage sludge and coal gangue: SO 2 , NO \times and trace elements emissions. Waste Management, 2016, 50, 213-221.	3.7	108
11	Promoting effect of Nd on the reduction of NO with NH ₃ over CeO ₂ supported by activated semi-coke: an in situ DRIFTS study. Catalysis Science and Technology, 2015, 5, 2251-2259.	2.1	105
12	FTIR, Raman and NMR investigation of CaO–SiO2–P2O5 and CaO–SiO2–TiO2–P2O5 glasses. Journal o Non-Crystalline Solids, 2015, 420, 26-33.	of 1.5	102
13	MOF-Derived Porous ZnO Nanocages/rGO/Carbon Sponge-Based Photocatalytic Microreactor for Efficient Degradation of Water Pollutants and Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2018, 6, 11989-11998.	3.2	101
14	Investigation of the Viscosity and Structural Properties of CaO-SiO2-TiO2 Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1389-1397.	1.0	99
15	Hierarchically Structured Calcium Silicate Hydrate-Based Nanocomposites Derived from Steel Slag for Highly Efficient Heavy Metal Removal from Wastewater. ACS Sustainable Chemistry and Engineering, 2018, 6, 14926-14935.	3.2	94
16	Exclusive enhancement of catalytic activity in Bi _{0.5} Na _{0.5} TiO ₃ nanostructures: new insights into the design of efficient piezocatalysts and piezo-photocatalysts. Journal of Materials Chemistry A, 2020, 8, 16238-16245.	5.2	93
17	Molecular Dynamics Study of the Structural Properties of Calcium Aluminosilicate Slags with Varying Al2O3/SiO2 Ratios. ISIJ International, 2012, 52, 342-349.	0.6	92
18	Effect of Al ₂ O ₃ /SiO ₂ Ratio on the Viscosity and Structure of Slags. ISIJ International, 2012, 52, 753-758.	0.6	90

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19	Recycling of municipal solid waste incineration by-product for cement composites preparation. Construction and Building Materials, 2018, 162, 794-801.	3.2	84
20	The Influence of Al ₂ O ₃ /SiO ₂ Ratio on the Viscosity of Mold Fluxes. ISIJ International, 2008, 48, 739-746.	0.6	83
21	Heat Recovery from High Temperature Slags: A Review of Chemical Methods. Energies, 2015, 8, 1917-1935.	1.6	83
22	Raman spectroscopic study of the structural properties of CaO–MgO–SiO2–TiO2 slags. Journal of Non-Crystalline Solids, 2013, 376, 209-215.	1.5	79
23	Activated Semi-coke in SO ₂ Removal from Flue Gas: Selection of Activation Methodology and Desulfurization Mechanism Study. Energy & Energy & 2013, 27, 3080-3089.	2.5	78
24	Inherent potential of steelmaking to contribute to decarbonisation targets via industrial carbon capture and storage. Nature Communications, 2018, 9, 4422.	5.8	78
25	Sulfur-containing iron nanocomposites confined in S/N co-doped carbon for catalytic peroxymonosulfate oxidation of organic pollutants: Low iron leaching, degradation mechanism and intermediates. Chemical Engineering Journal, 2021, 404, 126499.	6.6	77
26	An all-in-one strategy for the adsorption of heavy metal ions and photodegradation of organic pollutants using steel slag-derived calcium silicate hydrate. Journal of Hazardous Materials, 2020, 382, 121120.	6.5	75
27	Amino-functionalized sewage sludge-derived biochar as sustainable efficient adsorbent for Cu(II) removal. Waste Management, 2019, 90, 17-28.	3.7	72
28	Low-temperature SCR of NO with NH3 over activated semi-coke composite-supported rare earth oxides. Applied Surface Science, 2014, 309, 1-10.	3.1	71
29	In situ DRIFTS studies on MnO nanowires supported by activated semi-coke for low temperature selective catalytic reduction of NO with NH3. Applied Surface Science, 2016, 366, 139-147.	3.1	71
30	Preparation of novel ceramic tiles with high Al2O3 content derived from coal fly ash. Construction and Building Materials, 2016, 114, 888-895.	3.2	69
31	Phosphorus speciation in sewage sludge and the sludge-derived biochar by a combination of experimental methods and theoretical simulation. Water Research, 2018, 140, 90-99.	5.3	69
32	Role of SnS ₂ in 2D–2D SnS ₂ /TiO ₂ Nanosheet Heterojunctions for Photocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2019, 2, 2144-2151.	2.4	69
33	Effect of Al2O3 on the Viscosity and Structure of CaO-SiO2-MgO-Al2O3-FetO Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 537-541.	1.0	65
34	Reduction-ammoniacal leaching to recycle lithium, cobalt, and nickel from spent lithium-ion batteries with a hydrothermal method: Effect of reductants and ammonium salts. Waste Management, 2020, 102, 122-130.	3.7	64
35	Synthesis, characterization and modeling of new building insulation material using ceramic polishing waste residue. Construction and Building Materials, 2015, 85, 119-126.	3.2	63
36	Effect of mineral constituents on temperature-dependent structural characterization of carbon fractions in sewage sludge-derived biochar. Journal of Cleaner Production, 2018, 172, 3342-3350.	4.6	63

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37	Structural Roles of Boron and Silicon in the CaO-SiO2-B2O3 Glasses Using FTIR, Raman, and NMR Spectroscopy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1549-1554.	1.0	62
38	Effect of water-washing on the co-removal of chlorine and heavy metals in air pollution control residue from MSW incineration. Waste Management, 2017, 68, 221-231.	3.7	62
39	Experimental investigation and modeling of cooling processes of high temperature slags. Energy, 2014, 76, 761-767.	4.5	61
40	Crystallization Behavior of Rutile in the Synthesized Ti-bearing Blast Furnace Slag Using Single Hot Thermocouple Technique. ISIJ International, 2011, 51, 1396-1402.	0.6	58
41	The Influence of SiO ₂ on the Extraction of Ti Element from Tiâ€bearing Blast Furnace Slag. Steel Research International, 2011, 82, 607-614.	1.0	55
42	Effect of B2O3 on the Structure and Viscous Behavior of Ti-Bearing Blast Furnace Slags. Jom, 2014, 66, 2168-2175.	0.9	55
43	Recycling of spent lithium-ion batteries: Selective ammonia leaching of valuable metals and simultaneous synthesis of high-purity manganese carbonate. Waste Management, 2020, 114, 253-262.	3.7	54
44	Microwave-assisted hydrothermal assembly of 2D copper-porphyrin metal-organic frameworks for the removal of dyes and antibiotics from water. Environmental Science and Pollution Research, 2020, 27, 39186-39197.	2.7	54
45	Integrated carbon dioxide/sludge gasification using waste heat from hot slags: Syngas production and sulfur dioxide fixation. Bioresource Technology, 2015, 181, 174-182.	4.8	53
46	Effect of inherent minerals on sewage sludge pyrolysis: Product characteristics, kinetics and thermodynamics. Waste Management, 2018, 80, 175-185.	3.7	53
47	Understanding the Relationship Between Structure and Thermophysical Properties of CaO-SiO2-MgO-Al2O3 Molten Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 677-687.	1.0	51
48	Product characteristics and kinetics of sewage sludge pyrolysis driven by alkaline earth metals. Energy, 2018, 153, 921-932.	4.5	51
49	Remarkably enhanced photocatalytic performance of Au/AgNbO3 heterostructures by coupling piezotronic with plasmonic effects. Nano Energy, 2022, 95, 107031.	8.2	51
50	Influence of Basicity and TiO2 Content on the Precipitation Behavior of the Ti-bearing Blast Furnace Slags. ISIJ International, 2013, 53, 1696-1703.	0.6	50
51	Effects of chemistry and mineral on structural evolution and chemical reactivity of coal gangue during calcination: towards efficient utilization. Materials and Structures/Materiaux Et Constructions, 2015, 48, 2779-2793.	1.3	48
52	PAHs and heavy metals in the surrounding soil of a cement plant Co-Processing hazardous waste. Chemosphere, 2018, 210, 247-256.	4.2	47
53	Recycling ground MSWI bottom ash in cement composites: Long-term environmental impacts. Waste Management, 2018, 78, 841-848.	3.7	46
54	Efficient recovery of phosphorus in sewage sludge through hydroxylapatite enhancement formation aided by calcium-based additives. Water Research, 2020, 171, 115450.	5.3	46

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55	Hydrothermal Synthesis of CeO ₂ Nanoparticles on Activated Carbon with Enhanced Desulfurization Activity. Energy & Samp; Fuels, 2012, 26, 5879-5886.	2.5	45
56	Two-stage high temperature sludge gasification using the waste heat from hot blast furnace slags. Bioresource Technology, 2015, 198, 364-371.	4.8	45
57	Enhanced Piezocatalytic Activity of Sr _{0.5} Ba _{0.5} Nb ₂ O ₆ Nanostructures by Engineering Surface Oxygen Vacancies and Self-Generated Heterojunctions. ACS Applied Materials & Districtions and Self-Generated Heterojunctions. ACS Applied Materials & Districtions and Self-Generated Heterojunctions.	4.0	45
58	Template-Free Synthesis of Oxygen-Doped Bundlelike Porous Boron Nitride for Highly Efficient Removal of Heavy Metals from Wastewater. ACS Sustainable Chemistry and Engineering, 2018, 6, 16011-16020.	3.2	43
59	Enhanced and environment-friendly chemical looping gasification of crop straw using red mud as a sinter-resistant oxygen carrier. Waste Management, 2021, 121, 354-364.	3.7	43
60	Multi-Stage Control of Waste Heat Recovery from High Temperature Slags Based on Time Temperature Transformation Curves. Energies, 2014, 7, 1673-1684.	1.6	42
61	Biogas Upgrading via Cyclic CO ₂ Adsorption: Application of Highly Regenerable PEI@nano-Al ₂ O ₃ Adsorbents with Anti-Urea Properties. Environmental Science & Environmen	4.6	42
62	Novel Calcium Oxide-Enhancement Phosphorus Recycling Technique through Sewage Sludge Pyrolysis. ACS Sustainable Chemistry and Engineering, 2018, 6, 9167-9177.	3.2	41
63	PCDD/F levels and phase distributions in a full-scale municipal solid waste incinerator with co-incinerating sewage sludge. Waste Management, 2020, 106, 110-119.	3.7	41
64	Mechanical properties and microstructures of hot-pressed MgAlON–BN composites. Journal of the European Ceramic Society, 2007, 27, 319-326.	2.8	40
65	Preparation of Slag Wool by Integrated Waste-Heat Recovery and Resource Recycling of Molten Blast Furnace Slags: From Fundamental to Industrial Application. Energies, 2014, 7, 3121-3135.	1.6	40
66	The Effect of P2O5 on the Crystallization Behaviors of Ti-Bearing Blast Furnace Slags Using Single Hot Thermocouple Technique. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1446-1455.	1.0	40
67	A field study of polychlorinated dibenzo-p-dioxins and dibenzofurans formation mechanism in a hazardous waste incinerator: Emission reduction strategies. Journal of Cleaner Production, 2019, 232, 1018-1027.	4.6	38
68	Metal–organic framework-derived magnetic carbon for efficient decontamination of organic pollutants via periodate activation: Surface atomic structure and mechanistic considerations. Journal of Hazardous Materials, 2022, 424, 126786.	6.5	38
69	Ionization potential-based design of deep eutectic solvent for recycling of spent lithium ion batteries. Chemical Engineering Journal, 2022, 436, 133200.	6.6	38
70	TiO2/CuS heterostructure nanowire array photoanodes toward water oxidation: The role of CuS. Applied Surface Science, 2019, 463, 829-837.	3.1	37
71	Characteristics of low temperature biomass gasification and syngas release behavior using hot slag. RSC Advances, 2014, 4, 62105-62114.	1.7	36
72	Alkali metal-driven release behaviors of volatiles during sewage sludge pyrolysis. Journal of Cleaner Production, 2018, 203, 860-872.	4.6	34

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73	Defective analcime/geopolymer composite membrane derived from fly ash for ultrafast and highly efficient filtration of organic pollutants. Journal of Hazardous Materials, 2020, 388, 121736.	6.5	34
74	Selective Crystallization Behavior of CaO-SiO2-Al2O3-MgO-FetO-P2O5 Steelmaking Slags Modified through P2O5 and Al2O3. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 2246-2254.	1.0	33
75	Short-range and Medium-range Structural Order in CaO–SiO ₂ –TiO ₂ –B ₂ O _{ Glasses. ISIJ International, 2016, 56, 752-758.}	&l t ;/eub&{	gt;32
76	Co-combustion and emission characteristics of coal gangue and low-quality coal. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1883-1892.	2.0	31
77	Effect of Calcium Hydroxide on the Pyrolysis Behavior of Sewage Sludge: Reaction Characteristics and Kinetics. Energy &	2.5	30
78	Ce-based heterogeneous catalysts by partial thermal decomposition of Ce-MOFs in activation of peroxymonosulfate for the removal of organic pollutants under visible light. Chemosphere, 2021, 280, 130637.	4.2	30
79	Trace element partitioning behavior of coal gangue-fired CFB plant: experimental and equilibrium calculation. Environmental Science and Pollution Research, 2015, 22, 15469-15478.	2.7	29
80	Application of washed MSWI fly ash in cement composites: long-term environmental impacts. Environmental Science and Pollution Research, 2018, 25, 12127-12138.	2.7	29
81	General roles of sludge ash, CaO and Al2O3 on the sludge pyrolysis toward clean utilizations. Applied Energy, 2019, 233-234, 412-423.	5.1	29
82	Investigation on Viscosity and Nonisothermal Crystallization Behavior of P-Bearing Steelmaking Slags with Varying TiO2 Content. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 527-537.	1.0	28
83	Biomass gasification using the waste heat from high temperature slags in a mixture of CO2 and H2O. Energy, 2019, 167, 688-697.	4.5	28
84	Cobaltâ€Enhanced Mass Transfer and Catalytic Production of Sulfate Radicals in MOFâ€Derived CeO ₂ • Co ₃ O ₄ Nanoflowers for Efficient Degradation of Antibiotics. Small, 2021, 17, e2101393.	5.2	28
85	Pyrite transformation and sulfur dioxide release during calcination of coal gangue. RSC Advances, 2014, 4, 42506-42513.	1.7	27
86	Achieving waste to energy through sewage sludge gasification using hot slags: syngas production. Scientific Reports, 2015, 5, 11436.	1.6	27
87	Enhancement of Scattering and Near Field of TiO ₂ –Au Nanohybrids Using a Silver Resonator for Efficient Plasmonic Photocatalysis. ACS Applied Materials & Diterfaces, 2021, 13, 34714-34723.	4.0	27
88	Luffa sponge-derived hierarchical meso/macroporous boron nitride fibers as superior sorbents for heavy metal sequestration. Journal of Hazardous Materials, 2019, 378, 120669.	6.5	26
89	Decarbonising the iron and steel sector for a 2 °C target using inherent waste streams. Nature Communications, 2022, 13, 297.	5.8	26
90	Co-modification and Crystalline-control of Ti-bearing Blast Furnace Slags. ISIJ International, 2015, 55, 158-165.	0.6	25

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91	Self-templated microwave-assisted hydrothermal synthesis of two-dimensional holey hydroxyapatite nanosheets for efficient heavy metal removal. Environmental Science and Pollution Research, 2019, 26, 30076-30086.	2.7	25
92	Evolution of trace elements and polluting gases toward clean co-combustion of coal and sewage sludge. Fuel, 2020, 280, 118685.	3.4	25
93	Integration of biomass/steam gasification with heat recovery from hot slags: Thermodynamic characteristics. International Journal of Hydrogen Energy, 2016, 41, 5916-5926.	3.8	24
94	Highly efficient and stable PEI@Al2O3 adsorbents derived from coal fly ash for biogas upgrading. Chemical Engineering Journal, 2021, 409, 128117.	6.6	24
95	Effect of P2O5 Addition on the Viscosity and Structure of Titanium Bearing Blast Furnace Slags. ISIJ International, 2014, 54, 1491-1497.	0.6	23
96	Fuel nitrogen conversion and release of nitrogen oxides during coal gangue calcination. Environmental Science and Pollution Research, 2015, 22, 7139-7146.	2.7	23
97	Simulating the effects of anchors on the thermal performance of building insulation systems. Energy and Buildings, 2017, 140, 501-507.	3.1	23
98	Integrating biomass pyrolysis with waste heat recovery from hot slags via extending the C-loops: Product yields and roles of slags. Energy, 2018, 149, 792-803.	4.5	23
99	Pollution emission characteristics, distribution of heavy metals, and particle morphologies in a hazardous waste incinerator processing phenolic waste. Journal of Hazardous Materials, 2020, 388, 121751.	6.5	23
100	Synergic removal of tetracycline using hydrophilic three-dimensional nitrogen-doped porous carbon embedded with copper oxide nanoparticles by coupling adsorption and photocatalytic oxidation processes. Journal of Colloid and Interface Science, 2021, 581, 350-361.	5.0	23
101	Development of the random simulation model for estimating the effective thermal conductivity of insulation materials. Building and Environment, 2014, 80, 221-227.	3.0	21
102	Effect of Al2O3 Addition on the Precipitated Phase Transformation in Ti-Bearing Blast Furnace Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1390-1399.	1.0	21
103	Structural Investigation of Phosphorus in CaO-SiO2-P2O5 Ternary Glass. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1139-1148.	1.0	21
104	Role of steel slags on biomass/carbon dioxide gasification integrated with recovery of high temperature heat. Bioresource Technology, 2017, 223, 1-9.	4.8	21
105	Rational design of a novel quaternary ZnO@ZnS/Ag@Ag ₂ S nanojunction system for enhanced photocatalytic H ₂ production. Inorganic Chemistry Frontiers, 2018, 5, 3074-3081.	3.0	21
106	Novel Recovered Compound Phosphate Fertilizer Produced from Sewage Sludge and Its Incinerated Ash. ACS Sustainable Chemistry and Engineering, 2020, 8, 6611-6621.	3.2	21
107	Investigation on slag fiber characteristics: Mechanical property and anti-corrosion performance. Ceramics International, 2015, 41, 5677-5687.	2.3	20
108	Performance and mechanism of mold-pressing alkali-activated material from MSWI fly ash for its heavy metals solidification. Waste Management, 2021, 126, 747-753.	3.7	20

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109	Regulation of electronic structures of MOF-derived carbon via ligand adjustment for enhanced Fenton-like reactions. Science of the Total Environment, 2021, 799, 149497.	3.9	20
110	Bowknot-like Zr/La bimetallic organic frameworks for enhanced arsenate and phosphate removal: Combined experimental and DFT studies. Journal of Colloid and Interface Science, 2022, 614, 47-57.	5.0	20
111	Harvesting mechanical energy for hydrogen generation by piezoelectric metal–organic frameworks. Materials Horizons, 2022, 9, 1978-1983.	6.4	20
112	Integration of coal gasification and waste heat recovery from high temperature steel slags: an emerging strategy to emission reduction. Scientific Reports, 2015, 5, 16591.	1.6	19
113	Surface-disorder-engineered Zn2SnO4/SnO2 hollow microboxes with enhanced solar-driven photocatalytic activity. Applied Surface Science, 2019, 463, 474-480.	3.1	19
114	Characterization of PM10 surrounding a cement plant with integrated facilities for co-processing of hazardous wastes. Journal of Cleaner Production, 2018, 186, 831-839.	4.6	18
115	All-inorganic dual-phase halide perovskite nanorings. Nano Research, 2020, 13, 2994-3000.	5.8	18
116	Amine-functionalized nano-Al2O3 adsorbent for CO2 separation from biogas: Efficient CO2 uptake and high anti-urea stability. Journal of Cleaner Production, 2022, 332, 130078.	4.6	18
117	Facile and economical synthesis of porous activated semi-cokes for highly efficient and fast removal of microcystin-LR. Journal of Hazardous Materials, 2015, 299, 325-332.	6.5	17
118	Integrated Utilization of Sewage Sludge and Coal Gangue for Cement Clinker Products: Promoting Tricalcium Silicate Formation and Trace Elements Immobilization. Materials, 2016, 9, 275.	1.3	17
119	Integrated biomass gasification using the waste heat from hot slags: Control of syngas and polluting gas releases. Energy, 2016, 114, 165-176.	4.5	17
120	Investigation of formation mechanism of particulate matter in a laboratory-scale simulated cement kiln co-processing municipal sewage sludge. Journal of Cleaner Production, 2019, 234, 822-831.	4.6	15
121	Levels, spatial distribution, and source identification of airborne environmentally persistent free radicals from tree leaves. Environmental Pollution, 2020, 257, 113353.	3.7	15
122	Colloidal Co single-atom catalyst: a facile synthesis strategy and high catalytic activity for hydrogen generation. Green Chemistry, 2020, 22, 1269-1274.	4.6	15
123	Emission levels and phase distributions of PCDD/Fs in a full-scale municipal solid waste incinerator: The impact of wet scrubber system. Journal of Cleaner Production, 2022, 337, 130468.	4.6	14
124	Morphology-tunable tellurium nanomaterials produced by the tellurite-reducing bacterium Lysinibacillus sp. ZYM-1. Environmental Science and Pollution Research, 2018, 25, 20756-20768.	2.7	13
125	Environmental mitigation of sludge combustion via two opposite modifying strategies: Kinetics and stabilization effect. Fuel, 2018, 227, 346-354.	3.4	13
126	A green synthesis of PEI@nano-SiO ₂ adsorbent from coal fly ash: selective and efficient CO ₂ adsorption from biogas. Sustainable Energy and Fuels, 2021, 5, 1014-1025.	2.5	13

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127	Future trend of terminal energy conservation in steelmaking plant: Integration of molten slag heat recovery-combustible gas preparation from waste plastics and CO2 emission reduction. Energy, 2022, 239, 122543.	4.5	13
128	Kinetic studies of oxidation of γ-AlON–TiN composites. Journal of Alloys and Compounds, 2005, 387, 74-81.	2.8	12
129	A Novel Kinematic Model for Molten Slag Fiberization: Prediction of Slag Fiber Properties. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 993-1001.	1.0	12
130	Viscous Flow and Crystallization Behaviors of P-bearing Steelmaking Slags with Varying Fluorine Content. ISIJ International, 2016, 56, 546-553.	0.6	12
131	Oxidation behavior of \hat{l}^2 -SiAlON powders fabricated by combustion synthesis. Ceramics International, 2016, 42, 7290-7299.	2.3	12
132	Efficient conversion of carbohydrates and biomass into furan compounds by chitin/Ag co-modified H3PW12O40 catalysts. Journal of Cleaner Production, 2021, 316, 128243.	4.6	12
133	Fabrication of Pd/CeO ₂ nanocubes as highly efficient catalysts for degradation of formaldehyde at room temperature. Catalysis Science and Technology, 2021, 11, 6732-6741.	2.1	12
134	In situ synthesis of Tree-branch-like Copper-manganese oxides nanoarrays supported on copper foam as a superior efficiency Fenton-like catalyst for enhanced degradation of 4-chlorophenol. Applied Surface Science, 2022, 593, 153241.	3.1	12
135	Cellular and compositional insight into the sludge dewatering process using enzyme treatment. Environmental Science and Pollution Research, 2018, 25, 28942-28953.	2.7	11
136	Remediation of Cu-polluted soil with analcime synthesized from engineering abandoned soils through green chemistry approaches. Journal of Hazardous Materials, 2021, 406, 124673.	6.5	11
137	Preparation and modeling of energy-saving building materials by using industrial solid waste. Energy and Buildings, 2015, 97, 6-12.	3.1	10
138	Distributional and compositional insight into the polluting materials during sludge combustion: Roles of ash. Fuel, 2018, 220, 318-329.	3.4	10
139	Electric potential-determined redox intermediates for effective recycling of spent lithium-ion batteries. Green Chemistry, 2022, 24, 3723-3735.	4.6	10
140	Facile and Economical Preparation of SiAlON-Based Composites Using Coal Gangue: From Fundamental to Industrial Application. Energies, 2015, 8, 7428-7440.	1.6	9
141	Efficient one-pot synthesis of ethyl levulinate from carbohydrates catalyzed by Wells-Dawson heteropolyacid supported on Ce–Si pillared montmorillonite. Journal of Cleaner Production, 2021, 324, 129276.	4.6	9
142	The effect of soil amendment derived from P-enhanced sludge pyrochar on ryegrass growth and soil microbial diversity. Science of the Total Environment, 2022, 813, 152526.	3.9	9
143	Feasibility Evaluation of the Terminated Waste Energy In Situ Conversion Strategy toward Carbon Neutralization in Metallurgical Processes. ACS Sustainable Chemistry and Engineering, 2021, 9, 14079-14089.	3.2	8
144	Enhancement of Rutile Formation by ZrO ₂ Addition in Ti-bearing Blast Furnace Slags. ISIJ International, 2015, 55, 1384-1389.	0.6	7

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145	The partitioning behavior of trace element and its distribution in the surrounding soil of a cement plant integrated utilization of hazardous wastes. Environmental Science and Pollution Research, 2016, 23, 13943-13953.	2.7	7
146	A Fe-C-Ca big cycle in modern carbon-intensive industries: toward emission reduction and resource utilization. Scientific Reports, 2016, 6, 22323.	1.6	6
147	Utilization of High-Temperature Slags From Metallurgy Based on Crystallization Behaviors. Jom, 2018, 70, 1274-1281.	0.9	6
148	Epitaxial patterned Bi ₂ FeCrO ₆ nanoisland arrays with room temperature multiferroic properties. Nanoscale Advances, 2019, 1, 2139-2145.	2.2	6
149	Copper-nanoparticle-dispersed amorphous BaTiO ₃ thin films as hole-trapping centers: enhanced photocatalytic activity and stability. RSC Advances, 2019, 9, 5045-5052.	1.7	6
150	Thermodynamic modeling of electrolyte solutions by a hybrid ion-interaction and solvation (HIS) model. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 48, 79-88.	0.7	5
151	Data processing to support explication about effect of mineral constituents on temperature-dependent structural characterization of carbon fractions in sewage sludge-derived biochar. Data in Brief, 2018, 17, 1304-1306.	0.5	5
152	Long-term leaching behaviours of cement composites prepared by hazardous wastes. RSC Advances, 2018, 8, 27602-27609.	1.7	5
153	Coordination-Directed Assembly of Luminescent Semiconducting Oligomers and Weak Interaction-Induced Morphology Transformation. ACS Omega, 2019, 4, 14294-14300.	1.6	5
154	Modification of the Structure of Ti-Bearing Mold Flux by the Simultaneous Addition of B2O3 and Na2O. Metallurgical and Materials Transactions E, 2016, 3, 28-36.	0.5	4
155	Cross-sectoral synergy between municipal wastewater treatment, cement manufacture and petrochemical synthesis via clean transformation of sewage sludge. Sustainable Energy and Fuels, 2020, 4, 6274-6282.	2.5	4
156	Synthesis and characterization of MgAlON–BN composites. International Journal of Materials Research, 2007, 98, 64-71.	0.1	3
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