

Zuotai Zhang

List of Publications by Year in descending order

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167
papers

6,943
citations

44069

48
h-index

79698

73
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172
all docs

172
docs citations

172
times ranked

5337
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced catalytic performance by multi-field coupling in KNbO ₃ nanostructures: Piezo-photocatalytic and ferro-photoelectrochemical effects. <i>Nano Energy</i> , 2019, 58, 695-705.	16.0	240
2	Preparation of glass ceramic foams for thermal insulation applications from coal fly ash and waste glass. <i>Construction and Building Materials</i> , 2016, 112, 398-405.	7.2	211
3	Recent Advances of Ferro-, Piezo-, and Pyroelectric Nanomaterials for Catalytic Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 1063-1079.	5.0	205
4	Few-layer transition metal dichalcogenides (MoS ₂ , WS ₂ , and WSe ₂) for water splitting and degradation of organic pollutants: Understanding the piezocatalytic effect. <i>Nano Energy</i> , 2019, 66, 104083.	16.0	181
5	A novel method for screening deep eutectic solvent to recycle the cathode of Li-ion batteries. <i>Green Chemistry</i> , 2020, 22, 4473-4482.	9.0	158
6	Calcium-looping reforming of methane realizes in situ CO ₂ utilization with improved energy efficiency. <i>Science Advances</i> , 2019, 5, eaav5077.	10.3	153
7	Atomically Dispersed Cobalt Sites on Graphene as Efficient Periodate Activators for Selective Organic Pollutant Degradation. <i>Environmental Science & Technology</i> , 2021, 55, 5357-5370.	10.0	149
8	In situ DRIFTS investigation on the SCR of NO with NH ₃ over V ₂ O ₅ catalyst supported by activated semi-coke. <i>Applied Surface Science</i> , 2014, 313, 660-669.	6.1	145
9	COVID-19 waste management: Effective and successful measures in Wuhan, China. <i>Resources, Conservation and Recycling</i> , 2020, 163, 105071.	10.8	132
10	Environmental investigation on co-combustion of sewage sludge and coal gangue: SO ₂ , NO _x and trace elements emissions. <i>Waste Management</i> , 2016, 50, 213-221.	7.4	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. <i>Catalysis Science and Technology</i> , 2015, 5, 2251-2259.	4.1	105
12	FTIR, Raman and NMR investigation of CaO-SiO ₂ -P ₂ O ₅ and CaO-SiO ₂ -TiO ₂ -P ₂ O ₅ glasses. <i>Journal of Non-Crystalline Solids</i> , 2015, 420, 26-33.	3.1	102
13	MOF-Derived Porous ZnO Nanocages/rGO/Carbon Sponge-Based Photocatalytic Microreactor for Efficient Degradation of Water Pollutants and Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11989-11998.	6.7	101
14	Investigation of the Viscosity and Structural Properties of CaO-SiO ₂ -TiO ₂ Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 1389-1397.	2.1	99
15	Hierarchically Structured Calcium Silicate Hydrate-Based Nanocomposites Derived from Steel Slag for Highly Efficient Heavy Metal Removal from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14926-14935.	6.7	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. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16238-16245.	10.3	93
17	Molecular Dynamics Study of the Structural Properties of Calcium Aluminosilicate Slags with Varying Al ₂ O ₃ /SiO ₂ Ratios. <i>ISIJ International</i> , 2012, 52, 342-349.	1.4	92
18	Effect of Al ₂ O ₃ /SiO ₂ Ratio on the Viscosity and Structure of Slags. <i>ISIJ International</i> , 2012, 52, 753-758.	1.4	90

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19	Recycling of municipal solid waste incineration by-product for cement composites preparation. <i>Construction and Building Materials</i> , 2018, 162, 794-801.	7.2	84
20	The Influence of Al ₂ O ₃ /SiO ₂ Ratio on the Viscosity of Mold Fluxes. <i>ISIJ International</i> , 2008, 48, 739-746.	1.4	83
21	Heat Recovery from High Temperature Slags: A Review of Chemical Methods. <i>Energies</i> , 2015, 8, 1917-1935.	3.1	83
22	Raman spectroscopic study of the structural properties of CaO-MgO-SiO ₂ -TiO ₂ slags. <i>Journal of Non-Crystalline Solids</i> , 2013, 376, 209-215.	3.1	79
23	Activated Semi-coke in SO ₂ Removal from Flue Gas: Selection of Activation Methodology and Desulfurization Mechanism Study. <i>Energy & Fuels</i> , 2013, 27, 3080-3089.	5.1	78
24	Inherent potential of steelmaking to contribute to decarbonisation targets via industrial carbon capture and storage. <i>Nature Communications</i> , 2018, 9, 4422.	12.8	78
25	Sulfur-containing iron nanocomposites confined in S/N co-doped carbon for catalytic peroxydisulfate oxidation of organic pollutants: Low iron leaching, degradation mechanism and intermediates. <i>Chemical Engineering Journal</i> , 2021, 404, 126499.	12.7	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. <i>Journal of Hazardous Materials</i> , 2020, 382, 121120.	12.4	75
27	Amino-functionalized sewage sludge-derived biochar as sustainable efficient adsorbent for Cu(II) removal. <i>Waste Management</i> , 2019, 90, 17-28.	7.4	72
28	Low-temperature SCR of NO with NH ₃ over activated semi-coke composite-supported rare earth oxides. <i>Applied Surface Science</i> , 2014, 309, 1-10.	6.1	71
29	In situ DRIFTS studies on MnO nanowires supported by activated semi-coke for low temperature selective catalytic reduction of NO with NH ₃ . <i>Applied Surface Science</i> , 2016, 366, 139-147.	6.1	71
30	Preparation of novel ceramic tiles with high Al ₂ O ₃ content derived from coal fly ash. <i>Construction and Building Materials</i> , 2016, 114, 888-895.	7.2	69
31	Phosphorus speciation in sewage sludge and the sludge-derived biochar by a combination of experimental methods and theoretical simulation. <i>Water Research</i> , 2018, 140, 90-99.	11.3	69
32	Role of SnS ₂ in 2D SnS ₂ /TiO ₂ Nanosheet Heterojunctions for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2019, 2, 2144-2151.	5.0	69
33	Effect of Al ₂ O ₃ on the Viscosity and Structure of CaO-SiO ₂ -MgO-Al ₂ O ₃ -FeO Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 537-541.	2.1	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. <i>Waste Management</i> , 2020, 102, 122-130.	7.4	64
35	Synthesis, characterization and modeling of new building insulation material using ceramic polishing waste residue. <i>Construction and Building Materials</i> , 2015, 85, 119-126.	7.2	63
36	Effect of mineral constituents on temperature-dependent structural characterization of carbon fractions in sewage sludge-derived biochar. <i>Journal of Cleaner Production</i> , 2018, 172, 3342-3350.	9.3	63

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37	Structural Roles of Boron and Silicon in the CaO-SiO ₂ -B ₂ O ₃ Glasses Using FTIR, Raman, and NMR Spectroscopy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1549-1554.	2.1	62
38	Effect of water-washing on the co-removal of chlorine and heavy metals in air pollution control residue from MSW incineration. <i>Waste Management</i> , 2017, 68, 221-231.	7.4	62
39	Experimental investigation and modeling of cooling processes of high temperature slags. <i>Energy</i> , 2014, 76, 761-767.	8.8	61
40	Crystallization Behavior of Rutile in the Synthesized Ti-bearing Blast Furnace Slag Using Single Hot Thermocouple Technique. <i>ISIJ International</i> , 2011, 51, 1396-1402.	1.4	58
41	The Influence of SiO ₂ on the Extraction of Ti Element from Ti-bearing Blast Furnace Slag. <i>Steel Research International</i> , 2011, 82, 607-614.	1.8	55
42	Effect of B ₂ O ₃ on the Structure and Viscous Behavior of Ti-Bearing Blast Furnace Slags. <i>Jom</i> , 2014, 66, 2168-2175.	1.9	55
43	Recycling of spent lithium-ion batteries: Selective ammonia leaching of valuable metals and simultaneous synthesis of high-purity manganese carbonate. <i>Waste Management</i> , 2020, 114, 253-262.	7.4	54
44	Microwave-assisted hydrothermal assembly of 2D copper-porphyrin metal-organic frameworks for the removal of dyes and antibiotics from water. <i>Environmental Science and Pollution Research</i> , 2020, 27, 39186-39197.	5.3	54
45	Integrated carbon dioxide/sludge gasification using waste heat from hot slags: Syngas production and sulfur dioxide fixation. <i>Bioresource Technology</i> , 2015, 181, 174-182.	9.6	53
46	Effect of inherent minerals on sewage sludge pyrolysis: Product characteristics, kinetics and thermodynamics. <i>Waste Management</i> , 2018, 80, 175-185.	7.4	53
47	Understanding the Relationship Between Structure and Thermophysical Properties of CaO-SiO ₂ -MgO-Al ₂ O ₃ Molten Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 677-687.	2.1	51
48	Product characteristics and kinetics of sewage sludge pyrolysis driven by alkaline earth metals. <i>Energy</i> , 2018, 153, 921-932.	8.8	51
49	Remarkably enhanced photocatalytic performance of Au/AgNbO ₃ heterostructures by coupling piezotronic with plasmonic effects. <i>Nano Energy</i> , 2022, 95, 107031.	16.0	51
50	Influence of Basicity and TiO ₂ Content on the Precipitation Behavior of the Ti-bearing Blast Furnace Slags. <i>ISIJ International</i> , 2013, 53, 1696-1703.	1.4	50
51	Effects of chemistry and mineral on structural evolution and chemical reactivity of coal gangue during calcination: towards efficient utilization. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 2779-2793.	3.1	48
52	PAHs and heavy metals in the surrounding soil of a cement plant Co-Processing hazardous waste. <i>Chemosphere</i> , 2018, 210, 247-256.	8.2	47
53	Recycling ground MSWI bottom ash in cement composites: Long-term environmental impacts. <i>Waste Management</i> , 2018, 78, 841-848.	7.4	46
54	Efficient recovery of phosphorus in sewage sludge through hydroxylapatite enhancement formation aided by calcium-based additives. <i>Water Research</i> , 2020, 171, 115450.	11.3	46

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55	Hydrothermal Synthesis of CeO ₂ Nanoparticles on Activated Carbon with Enhanced Desulfurization Activity. <i>Energy & Fuels</i> , 2012, 26, 5879-5886.	5.1	45
56	Two-stage high temperature sludge gasification using the waste heat from hot blast furnace slags. <i>Bioresource Technology</i> , 2015, 198, 364-371.	9.6	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. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7259-7267.	8.0	45
58	Template-Free Synthesis of Oxygen-Doped Bundlelike Porous Boron Nitride for Highly Efficient Removal of Heavy Metals from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16011-16020.	6.7	43
59	Enhanced and environment-friendly chemical looping gasification of crop straw using red mud as a sinter-resistant oxygen carrier. <i>Waste Management</i> , 2021, 121, 354-364.	7.4	43
60	Multi-Stage Control of Waste Heat Recovery from High Temperature Slags Based on Time Temperature Transformation Curves. <i>Energies</i> , 2014, 7, 1673-1684.	3.1	42
61	Biogas Upgrading via Cyclic CO ₂ Adsorption: Application of Highly Regenerable PEI@nano-Al ₂ O ₃ Adsorbents with Anti-Urea Properties. <i>Environmental Science & Technology</i> , 2021, 55, 5236-5247.	10.0	42
62	Novel Calcium Oxide-Enhancement Phosphorus Recycling Technique through Sewage Sludge Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9167-9177.	6.7	41
63	PCDD/F levels and phase distributions in a full-scale municipal solid waste incinerator with co-incinerating sewage sludge. <i>Waste Management</i> , 2020, 106, 110-119.	7.4	41
64	Mechanical properties and microstructures of hot-pressed MgAlON-BN composites. <i>Journal of the European Ceramic Society</i> , 2007, 27, 319-326.	5.7	40
65	Preparation of Slag Wool by Integrated Waste-Heat Recovery and Resource Recycling of Molten Blast Furnace Slags: From Fundamental to Industrial Application. <i>Energies</i> , 2014, 7, 3121-3135.	3.1	40
66	The Effect of P ₂ O ₅ on the Crystallization Behaviors of Ti-Bearing Blast Furnace Slags Using Single Hot Thermocouple Technique. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 1446-1455.	2.1	40
67	A field study of polychlorinated dibenzo-p-dioxins and dibenzofurans formation mechanism in a hazardous waste incinerator: Emission reduction strategies. <i>Journal of Cleaner Production</i> , 2019, 232, 1018-1027.	9.3	38
68	Metal-organic framework-derived magnetic carbon for efficient decontamination of organic pollutants via periodate activation: Surface atomic structure and mechanistic considerations. <i>Journal of Hazardous Materials</i> , 2022, 424, 126786.	12.4	38
69	Ionization potential-based design of deep eutectic solvent for recycling of spent lithium ion batteries. <i>Chemical Engineering Journal</i> , 2022, 436, 133200.	12.7	38
70	TiO ₂ /CuS heterostructure nanowire array photoanodes toward water oxidation: The role of CuS. <i>Applied Surface Science</i> , 2019, 463, 829-837.	6.1	37
71	Characteristics of low temperature biomass gasification and syngas release behavior using hot slag. <i>RSC Advances</i> , 2014, 4, 62105-62114.	3.6	36
72	Alkali metal-driven release behaviors of volatiles during sewage sludge pyrolysis. <i>Journal of Cleaner Production</i> , 2018, 203, 860-872.	9.3	34

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73	Defective analcime/geopolymer composite membrane derived from fly ash for ultrafast and highly efficient filtration of organic pollutants. <i>Journal of Hazardous Materials</i> , 2020, 388, 121736.	12.4	34
74	Selective Crystallization Behavior of CaO-SiO ₂ -Al ₂ O ₃ -MgO-Fe ₂ O ₃ -P ₂ O ₅ Steelmaking Slags Modified through P ₂ O ₅ and Al ₂ O ₃ . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 2246-2254.	2.1	33
75	Short-range and Medium-range Structural Order in CaO-SiO ₂ -TiO ₂ -B ₂ O ₃ Glasses. <i>ISIJ International</i> , 2016, 56, 752-758.		
76	Co-combustion and emission characteristics of coal gangue and low-quality coal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1883-1892.	3.6	31
77	Effect of Calcium Hydroxide on the Pyrolysis Behavior of Sewage Sludge: Reaction Characteristics and Kinetics. <i>Energy & Fuels</i> , 2017, 31, 5079-5087.	5.1	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. <i>Chemosphere</i> , 2021, 280, 130637.	8.2	30
79	Trace element partitioning behavior of coal gangue-fired CFB plant: experimental and equilibrium calculation. <i>Environmental Science and Pollution Research</i> , 2015, 22, 15469-15478.	5.3	29
80	Application of washed MSWI fly ash in cement composites: long-term environmental impacts. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12127-12138.	5.3	29
81	General roles of sludge ash, CaO and Al ₂ O ₃ on the sludge pyrolysis toward clean utilizations. <i>Applied Energy</i> , 2019, 233-234, 412-423.	10.1	29
82	Investigation on Viscosity and Nonisothermal Crystallization Behavior of P-Bearing Steelmaking Slags with Varying TiO ₂ Content. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 527-537.	2.1	28
83	Biomass gasification using the waste heat from high temperature slags in a mixture of CO ₂ and H ₂ O. <i>Energy</i> , 2019, 167, 688-697.	8.8	28
84	Cobalt-Enhanced Mass Transfer and Catalytic Production of Sulfate Radicals in MOF-Derived CeO ₂ -Co ₃ O ₄ Nanoflowers for Efficient Degradation of Antibiotics. <i>Small</i> , 2021, 17, e2101393.	10.0	28
85	Pyrite transformation and sulfur dioxide release during calcination of coal gangue. <i>RSC Advances</i> , 2014, 4, 42506-42513.	3.6	27
86	Achieving waste to energy through sewage sludge gasification using hot slags: syngas production. <i>Scientific Reports</i> , 2015, 5, 11436.	3.3	27
87	Enhancement of Scattering and Near Field of TiO ₂ -Au Nanohybrids Using a Silver Resonator for Efficient Plasmonic Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34714-34723.	8.0	27
88	Luffa sponge-derived hierarchical meso/macroporous boron nitride fibers as superior sorbents for heavy metal sequestration. <i>Journal of Hazardous Materials</i> , 2019, 378, 120669.	12.4	26
89	Decarbonising the iron and steel sector for a 2°C target using inherent waste streams. <i>Nature Communications</i> , 2022, 13, 297.	12.8	26
90	Co-modification and Crystalline-control of Ti-bearing Blast Furnace Slags. <i>ISIJ International</i> , 2015, 55, 158-165.	1.4	25

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91	Self-templated microwave-assisted hydrothermal synthesis of two-dimensional holey hydroxyapatite nanosheets for efficient heavy metal removal. <i>Environmental Science and Pollution Research</i> , 2019, 26, 30076-30086.	5.3	25
92	Evolution of trace elements and polluting gases toward clean co-combustion of coal and sewage sludge. <i>Fuel</i> , 2020, 280, 118685.	6.4	25
93	Integration of biomass/steam gasification with heat recovery from hot slags: Thermodynamic characteristics. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5916-5926.	7.1	24
94	Highly efficient and stable PEI@Al ₂ O ₃ adsorbents derived from coal fly ash for biogas upgrading. <i>Chemical Engineering Journal</i> , 2021, 409, 128117.	12.7	24
95	Effect of P ₂ O ₅ Addition on the Viscosity and Structure of Titanium Bearing Blast Furnace Slags. <i>ISIJ International</i> , 2014, 54, 1491-1497.	1.4	23
96	Fuel nitrogen conversion and release of nitrogen oxides during coal gangue calcination. <i>Environmental Science and Pollution Research</i> , 2015, 22, 7139-7146.	5.3	23
97	Simulating the effects of anchors on the thermal performance of building insulation systems. <i>Energy and Buildings</i> , 2017, 140, 501-507.	6.7	23
98	Integrating biomass pyrolysis with waste heat recovery from hot slags via extending the C-loops: Product yields and roles of slags. <i>Energy</i> , 2018, 149, 792-803.	8.8	23
99	Pollution emission characteristics, distribution of heavy metals, and particle morphologies in a hazardous waste incinerator processing phenolic waste. <i>Journal of Hazardous Materials</i> , 2020, 388, 121751.	12.4	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. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 350-361.	9.4	23
101	Development of the random simulation model for estimating the effective thermal conductivity of insulation materials. <i>Building and Environment</i> , 2014, 80, 221-227.	6.9	21
102	Effect of Al ₂ O ₃ Addition on the Precipitated Phase Transformation in Ti-Bearing Blast Furnace Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 1390-1399.	2.1	21
103	Structural Investigation of Phosphorus in CaO-SiO ₂ -P ₂ O ₅ Ternary Glass. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 1139-1148.	2.1	21
104	Role of steel slags on biomass/carbon dioxide gasification integrated with recovery of high temperature heat. <i>Bioresource Technology</i> , 2017, 223, 1-9.	9.6	21
105	Rational design of a novel quaternary ZnO@ZnS/Ag@Ag ₂ S nanojunction system for enhanced photocatalytic H ₂ production. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 3074-3081.	6.0	21
106	Novel Recovered Compound Phosphate Fertilizer Produced from Sewage Sludge and Its Incinerated Ash. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6611-6621.	6.7	21
107	Investigation on slag fiber characteristics: Mechanical property and anti-corrosion performance. <i>Ceramics International</i> , 2015, 41, 5677-5687.	4.8	20
108	Performance and mechanism of mold-pressing alkali-activated material from MSWI fly ash for its heavy metals solidification. <i>Waste Management</i> , 2021, 126, 747-753.	7.4	20

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109	Regulation of electronic structures of MOF-derived carbon via ligand adjustment for enhanced Fenton-like reactions. <i>Science of the Total Environment</i> , 2021, 799, 149497.	8.0	20
110	Bowknot-like Zr/La bimetallic organic frameworks for enhanced arsenate and phosphate removal: Combined experimental and DFT studies. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 47-57.	9.4	20
111	Harvesting mechanical energy for hydrogen generation by piezoelectric metal-organic frameworks. <i>Materials Horizons</i> , 2022, 9, 1978-1983.	12.2	20
112	Integration of coal gasification and waste heat recovery from high temperature steel slags: an emerging strategy to emission reduction. <i>Scientific Reports</i> , 2015, 5, 16591.	3.3	19
113	Surface-disorder-engineered Zn ₂ SnO ₄ /SnO ₂ hollow microboxes with enhanced solar-driven photocatalytic activity. <i>Applied Surface Science</i> , 2019, 463, 474-480.	6.1	19
114	Characterization of PM ₁₀ surrounding a cement plant with integrated facilities for co-processing of hazardous wastes. <i>Journal of Cleaner Production</i> , 2018, 186, 831-839.	9.3	18
115	All-inorganic dual-phase halide perovskite nanorings. <i>Nano Research</i> , 2020, 13, 2994-3000.	10.4	18
116	Amine-functionalized nano-Al ₂ O ₃ adsorbent for CO ₂ separation from biogas: Efficient CO ₂ uptake and high anti-urea stability. <i>Journal of Cleaner Production</i> , 2022, 332, 130078.	9.3	18
117	Facile and economical synthesis of porous activated semi-cokes for highly efficient and fast removal of microcystin-LR. <i>Journal of Hazardous Materials</i> , 2015, 299, 325-332.	12.4	17
118	Integrated Utilization of Sewage Sludge and Coal Gangue for Cement Clinker Products: Promoting Tricalcium Silicate Formation and Trace Elements Immobilization. <i>Materials</i> , 2016, 9, 275.	2.9	17
119	Integrated biomass gasification using the waste heat from hot slags: Control of syngas and polluting gas releases. <i>Energy</i> , 2016, 114, 165-176.	8.8	17
120	Investigation of formation mechanism of particulate matter in a laboratory-scale simulated cement kiln co-processing municipal sewage sludge. <i>Journal of Cleaner Production</i> , 2019, 234, 822-831.	9.3	15
121	Levels, spatial distribution, and source identification of airborne environmentally persistent free radicals from tree leaves. <i>Environmental Pollution</i> , 2020, 257, 113353.	7.5	15
122	Colloidal Co single-atom catalyst: a facile synthesis strategy and high catalytic activity for hydrogen generation. <i>Green Chemistry</i> , 2020, 22, 1269-1274.	9.0	15
123	Emission levels and phase distributions of PCDD/Fs in a full-scale municipal solid waste incinerator: The impact of wet scrubber system. <i>Journal of Cleaner Production</i> , 2022, 337, 130468.	9.3	14
124	Morphology-tunable tellurium nanomaterials produced by the tellurite-reducing bacterium <i>Lysinibacillus</i> sp. ZYM-1. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20756-20768.	5.3	13
125	Environmental mitigation of sludge combustion via two opposite modifying strategies: Kinetics and stabilization effect. <i>Fuel</i> , 2018, 227, 346-354.	6.4	13
126	A green synthesis of PEI@nano-SiO ₂ adsorbent from coal fly ash: selective and efficient CO ₂ adsorption from biogas. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1014-1025.	4.9	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 CO ₂ emission reduction. <i>Energy</i> , 2022, 239, 122543.	8.8	13
128	Kinetic studies of oxidation of $\hat{1}^3$ -AlON \hat{e} TiN composites. <i>Journal of Alloys and Compounds</i> , 2005, 387, 74-81.	5.5	12
129	A Novel Kinematic Model for Molten Slag Fiberization: Prediction of Slag Fiber Properties. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 993-1001.	2.1	12
130	Viscous Flow and Crystallization Behaviors of P-bearing Steelmaking Slags with Varying Fluorine Content. <i>ISIJ International</i> , 2016, 56, 546-553.	1.4	12
131	Oxidation behavior of $\hat{1}^2$ -SiAlON powders fabricated by combustion synthesis. <i>Ceramics International</i> , 2016, 42, 7290-7299.	4.8	12
132	Efficient conversion of carbohydrates and biomass into furan compounds by chitin/Ag co-modified H3PW12O40 catalysts. <i>Journal of Cleaner Production</i> , 2021, 316, 128243.	9.3	12
133	Fabrication of Pd/CeO ₂ nanocubes as highly efficient catalysts for degradation of formaldehyde at room temperature. <i>Catalysis Science and Technology</i> , 2021, 11, 6732-6741.	4.1	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. <i>Applied Surface Science</i> , 2022, 593, 153241.	6.1	12
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