

# 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  
g-index

172  
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172  
docs citations

172  
times ranked

5337  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Future trend of terminal energy conservation in steelmaking plant: Integration of molten slag heat recovery-combustible gas preparation from waste plastics and CO <sub>2</sub> emission reduction. <i>Energy</i> , 2022, 239, 122543.	8.8	13
4	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
5	The effect of soil amendment derived from P-enhanced sludge pyrochar on ryegrass growth and soil microbial diversity. <i>Science of the Total Environment</i> , 2022, 813, 152526.	8.0	9
6	Amine-functionalized nano-Al <sub>2</sub> O <sub>3</sub> adsorbent for CO <sub>2</sub> separation from biogas: Efficient CO <sub>2</sub> uptake and high anti-urea stability. <i>Journal of Cleaner Production</i> , 2022, 332, 130078.	9.3	18
7	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
8	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
9	Remarkably enhanced photocatalytic performance of Au/AgNbO <sub>3</sub> heterostructures by coupling piezotronic with plasmonic effects. <i>Nano Energy</i> , 2022, 95, 107031.	16.0	51
10	Electric potential-determined redox intermediates for effective recycling of spent lithium-ion batteries. <i>Green Chemistry</i> , 2022, 24, 3723-3735.	9.0	10
11	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
12	Harvesting mechanical energy for hydrogen generation by piezoelectric metal-organic frameworks. <i>Materials Horizons</i> , 2022, 9, 1978-1983.	12.2	20
13	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
14	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
15	Highly efficient and stable PEI@Al <sub>2</sub> O <sub>3</sub> adsorbents derived from coal fly ash for biogas upgrading. <i>Chemical Engineering Journal</i> , 2021, 409, 128117.	12.7	24
16	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
17	Enhanced Piezocatalytic Activity of Sr <sub>0.5</sub> Ba <sub>0.5</sub> Nb <sub>2</sub> O <sub>6</sub> Nanostructures by Engineering Surface Oxygen Vacancies and Self-Generated Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 7259-7267.	8.0	45
18	Biogas Upgrading via Cyclic CO <sub>2</sub> Adsorption: Application of Highly Regenerable PEI@nano-Al <sub>2</sub> O <sub>3</sub> Adsorbents with Anti-Urea Properties. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5236-5247.	10.0	42

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19	Remediation of Cu-polluted soil with analcime synthesized from engineering abandoned soils through green chemistry approaches. <i>Journal of Hazardous Materials</i> , 2021, 406, 124673.	12.4	11
20	Atomically Dispersed Cobalt Sites on Graphene as Efficient Periodate Activators for Selective Organic Pollutant Degradation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5357-5370.	10.0	149
21	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
22	Cobalt-Enhanced Mass Transfer and Catalytic Production of Sulfate Radicals in MOF-Derived CeO <sub>2</sub> -Co <sub>3</sub> O <sub>4</sub> Nanoflowers for Efficient Degradation of Antibiotics. <i>Small</i> , 2021, 17, e2101393.	10.0	28
23	Enhancement of Scattering and Near Field of TiO <sub>2</sub> -Au Nanohybrids Using a Silver Resonator for Efficient Plasmonic Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34714-34723.	8.0	27
24	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
25	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
26	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
27	A green synthesis of PEI@nano-SiO <sub>2</sub> adsorbent from coal fly ash: selective and efficient CO <sub>2</sub> adsorption from biogas. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1014-1025.	4.9	13
28	Fabrication of Pd/CeO <sub>2</sub> 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
29	Feasibility Evaluation of the Terminated Waste Energy In Situ Conversion Strategy toward Carbon Neutralization in Metallurgical Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14079-14089.	6.7	8
30	Efficient one-pot synthesis of ethyl levulinate from carbohydrates catalyzed by Wells-Dawson heteropolyacid supported on Ce-Si pillared montmorillonite. <i>Journal of Cleaner Production</i> , 2021, 324, 129276.	9.3	9
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	All-inorganic dual-phase halide perovskite nanorings. <i>Nano Research</i> , 2020, 13, 2994-3000.	10.4	18
39	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
40	COVID-19 waste management: Effective and successful measures in Wuhan, China. <i>Resources, Conservation and Recycling</i> , 2020, 163, 105071.	10.8	132
41	Cross-sectoral synergy between municipal wastewater treatment, cement manufacture and petrochemical synthesis via clean transformation of sewage sludge. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6274-6282.	4.9	4
42	Exclusive enhancement of catalytic activity in Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> 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
43	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
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	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
46	Recent Advances of Ferro-, Piezo-, and Pyroelectric Nanomaterials for Catalytic Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 1063-1079.	5.0	205
47	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
48	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
49	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
50	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
51	Epitaxial patterned Bi <sub>2</sub> FeCrO <sub>6</sub> nanosland arrays with room temperature multiferroic properties. <i>Nanoscale Advances</i> , 2019, 1, 2139-2145.	4.6	6
52	Coordination-Directed Assembly of Luminescent Semiconducting Oligomers and Weak Interaction-Induced Morphology Transformation. <i>ACS Omega</i> , 2019, 4, 14294-14300.	3.5	5
53	Few-layer transition metal dichalcogenides (MoS <sub>2</sub> , WS <sub>2</sub> , and WSe <sub>2</sub> ) for water splitting and degradation of organic pollutants: Understanding the piezocatalytic effect. <i>Nano Energy</i> , 2019, 66, 104083.	16.0	181
54	Enhanced catalytic performance by multi-field coupling in KNbO <sub>3</sub> nanostructures: Piezo-photocatalytic and ferro-photoelectrochemical effects. <i>Nano Energy</i> , 2019, 58, 695-705.	16.0	240

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55	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
56	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
57	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
58	Role of SnS <sub>2</sub> in 2D SnS <sub>2</sub> /TiO <sub>2</sub> Nanosheet Heterojunctions for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2019, 2, 2144-2151.	5.0	69
59	Calcium-looping reforming of methane realizes in situ CO <sub>2</sub> utilization with improved energy efficiency. <i>Science Advances</i> , 2019, 5, eaav5077.	10.3	153
60	In Situ Study on the Transformation Behavior of Ti-Bearing Slags in the Oxidation Atmosphere. <i>Minerals, Metals and Materials Series</i> , 2019, , 51-59.	0.4	0
61	Copper-nanoparticle-dispersed amorphous BaTiO <sub>3</sub> thin films as hole-trapping centers: enhanced photocatalytic activity and stability. <i>RSC Advances</i> , 2019, 9, 5045-5052.	3.6	6
62	Surface-disorder-engineered Zn <sub>2</sub> SnO <sub>4</sub> /SnO <sub>2</sub> hollow microboxes with enhanced solar-driven photocatalytic activity. <i>Applied Surface Science</i> , 2019, 463, 474-480.	6.1	19
63	TiO <sub>2</sub> /CuS heterostructure nanowire array photoanodes toward water oxidation: The role of CuS. <i>Applied Surface Science</i> , 2019, 463, 829-837.	6.1	37
64	Biomass gasification using the waste heat from high temperature slags in a mixture of CO <sub>2</sub> and H <sub>2</sub> O. <i>Energy</i> , 2019, 167, 688-697.	8.8	28
65	General roles of sludge ash, CaO and Al <sub>2</sub> O <sub>3</sub> on the sludge pyrolysis toward clean utilizations. <i>Applied Energy</i> , 2019, 233-234, 412-423.	10.1	29
66	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
67	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
68	Distributional and compositional insight into the polluting materials during sludge combustion: Roles of ash. <i>Fuel</i> , 2018, 220, 318-329.	6.4	10
69	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
70	Understanding the Relationship Between Structure and Thermophysical Properties of CaO-SiO <sub>2</sub> -MgO-Al <sub>2</sub> O <sub>3</sub> Molten Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 677-687.	2.1	51
71	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
72	Data processing to support explication about effect of mineral constituents on temperature-dependent structural characterization of carbon fractions in sewage sludge-derived biochar. <i>Data in Brief</i> , 2018, 17, 1304-1306.	1.0	5

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73	Utilization of High-Temperature Slags From Metallurgy Based on Crystallization Behaviors. <i>Jom</i> , 2018, 70, 1274-1281.	1.9	6
74	Product characteristics and kinetics of sewage sludge pyrolysis driven by alkaline earth metals. <i>Energy</i> , 2018, 153, 921-932.	8.8	51
75	Characterization of PM10 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
76	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
77	Rational design of a novel quaternary ZnO@ZnS/Ag@Ag <sub>2</sub> S nanojunction system for enhanced photocatalytic H <sub>2</sub> production. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 3074-3081.	6.0	21
78	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
79	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
80	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
81	Effect of inherent minerals on sewage sludge pyrolysis: Product characteristics, kinetics and thermodynamics. <i>Waste Management</i> , 2018, 80, 175-185.	7.4	53
82	Alkali metal-driven release behaviors of volatiles during sewage sludge pyrolysis. <i>Journal of Cleaner Production</i> , 2018, 203, 860-872.	9.3	34
83	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
84	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
85	Recycling ground MSWI bottom ash in cement composites: Long-term environmental impacts. <i>Waste Management</i> , 2018, 78, 841-848.	7.4	46
86	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
87	Long-term leaching behaviours of cement composites prepared by hazardous wastes. <i>RSC Advances</i> , 2018, 8, 27602-27609.	3.6	5
88	Cellular and compositional insight into the sludge dewatering process using enzyme treatment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28942-28953.	5.3	11
89	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
90	Environmental mitigation of sludge combustion via two opposite modifying strategies: Kinetics and stabilization effect. <i>Fuel</i> , 2018, 227, 346-354.	6.4	13

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91	Structural Investigation of Phosphorus in CaO-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> Ternary Glass. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1139-1148.	2.1	21
92	Integrated Utilization of Sewage Sludge for the Cement Clinker Production. Minerals, Metals and Materials Series, 2017, , 95-102.	0.4	1
93	Effect of Calcium Hydroxide on the Pyrolysis Behavior of Sewage Sludge: Reaction Characteristics and Kinetics. Energy & Fuels, 2017, 31, 5079-5087.	5.1	30
94	Simulating the effects of anchors on the thermal performance of building insulation systems. Energy and Buildings, 2017, 140, 501-507.	6.7	23
95	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.	7.4	62
96	Investigation on Viscosity and Nonisothermal Crystallization Behavior of P-Bearing Steelmaking Slags with Varying TiO <sub>2</sub> Content. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 527-537.	2.1	28
97	Energy Saving and Emission Reduction from the Steel Industry: Heat Recovery from High Temperature Slags. Lecture Notes in Energy, 2017, , 249-280.	0.3	1
98	Role of steel slags on biomass/carbon dioxide gasification integrated with recovery of high temperature heat. Bioresource Technology, 2017, 223, 1-9.	9.6	21
99	Effect of TiO <sub>2</sub> on Thermophysical Properties and Structure of P-Bearing Steelmaking Slags. Minerals, Metals and Materials Series, 2017, , 411-418.	0.4	1
100	Short-range and Medium-range Structural Order in CaO-SiO <sub>2</sub> -TiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> Glasses. ISIJ International, 2016, 56, 752-758.		
101	Viscous Flow and Crystallization Behaviors of P-bearing Steelmaking Slags with Varying Fluorine Content. ISIJ International, 2016, 56, 546-553.	1.4	12
102	Integrated Utilization of Sewage Sludge and Coal Gangue for Cement Clinker Products: Promoting Tricalcium Silicate Formation and Trace Elements Immobilization. Materials, 2016, 9, 275.	2.9	17
103	Preparation of novel ceramic tiles with high Al <sub>2</sub> O <sub>3</sub> content derived from coal fly ash. Construction and Building Materials, 2016, 114, 888-895.	7.2	69
104	Integrated biomass gasification using the waste heat from hot slags: Control of syngas and polluting gas releases. Energy, 2016, 114, 165-176.	8.8	17
105	A Fe-C-Ca big cycle in modern carbon-intensive industries: toward emission reduction and resource utilization. Scientific Reports, 2016, 6, 22323.	3.3	6
106	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.	5.3	7
107	Integration of biomass/steam gasification with heat recovery from hot slags: Thermodynamic characteristics. International Journal of Hydrogen Energy, 2016, 41, 5916-5926.	7.1	24
108	Modification of the Structure of Ti-Bearing Mold Flux by the Simultaneous Addition of B <sub>2</sub> O <sub>3</sub> and Na <sub>2</sub> O. Metallurgical and Materials Transactions E, 2016, 3, 28-36.	0.5	4

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109	Disposal of High-Temperature Slags: A Review of Integration of Heat Recovery and Material Recycling. Metallurgical and Materials Transactions E, 2016, 3, 114-122.	0.5	3
110	Effect of Al <sub>2</sub> O <sub>3</sub> 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.	2.1	21
111	In situ DRIFTS studies on MnO nanowires supported by activated semi-coke for low temperature selective catalytic reduction of NO with NH <sub>3</sub> . Applied Surface Science, 2016, 366, 139-147.	6.1	71
112	Environmental investigation on co-combustion of sewage sludge and coal gangue: SO <sub>2</sub> , NO <sub>x</sub> and trace elements emissions. Waste Management, 2016, 50, 213-221.	7.4	108
113	Oxidation behavior of $\hat{I}^2$ -SiAlON powders fabricated by combustion synthesis. Ceramics International, 2016, 42, 7290-7299.	4.8	12
114	Preparation of glass ceramic foams for thermal insulation applications from coal fly ash and waste glass. Construction and Building Materials, 2016, 112, 398-405.	7.2	211
115	Heat Recovery from High Temperature Slags: Chemical Methods. , 2016, , 41-48.		2
116	Viscous and Crystallization Characteristics of CaO-SiO <sub>2</sub> -MgO-Al <sub>2</sub> O <sub>3</sub> -FeO-P <sub>2</sub> O <sub>5</sub> -(CaF <sub>2</sub> ) Steelmaking Slags. , 2016, , 495-500.		0
117	Integration of coal gasification and waste heat recovery from high temperature steel slags: an emerging strategy to emission reduction. Scientific Reports, 2015, 5, 16591.	3.3	19
118	Oxidation of Ca- $\hat{I}^{\pm}$ -SiAlON Powders Prepared by Combustion Synthesis. Materials, 2015, 8, 7549-7562.	2.9	2
119	Facile and Economical Preparation of SiAlON-Based Composites Using Coal Gangue: From Fundamental to Industrial Application. Energies, 2015, 8, 7428-7440.	3.1	9
120	Co-modification and Crystalline-control of Ti-bearing Blast Furnace Slags. ISIJ International, 2015, 55, 158-165.	1.4	25
121	Enhancement of Rutile Formation by ZrO <sub>2</sub> Addition in Ti-bearing Blast Furnace Slags. ISIJ International, 2015, 55, 1384-1389.	1.4	7
122	Preparation and modeling of energy-saving building materials by using industrial solid waste. Energy and Buildings, 2015, 97, 6-12.	6.7	10
123	Integrated carbon dioxide/sludge gasification using waste heat from hot slags: Syngas production and sulfur dioxide fixation. Bioresource Technology, 2015, 181, 174-182.	9.6	53
124	Investigation on slag fiber characteristics: Mechanical property and anti-corrosion performance. Ceramics International, 2015, 41, 5677-5687.	4.8	20
125	Promoting effect of Nd on the reduction of NO with NH <sub>3</sub> over CeO <sub>2</sub> supported by activated semi-coke: an in situ DRIFTS study. Catalysis Science and Technology, 2015, 5, 2251-2259.	4.1	105
126	Co-combustion and emission characteristics of coal gangue and low-quality coal. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1883-1892.	3.6	31



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127	Effect of Al <sub>2</sub> O <sub>3</sub> on the Viscosity and Structure of CaO-SiO <sub>2</sub> -MgO-Al <sub>2</sub> O <sub>3</sub> -FeO Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 537-541.	2.1	65
128	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.	2.1	12
129	Selective Crystallization Behavior of CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -MgO-FeO-P <sub>2</sub> O <sub>5</sub> Steelmaking Slags Modified through P <sub>2</sub> O <sub>5</sub> and Al <sub>2</sub> O <sub>3</sub> . Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 2246-2254.	2.1	33
130	Achieving waste to energy through sewage sludge gasification using hot slags: syngas production. Scientific Reports, 2015, 5, 11436.	3.3	27
131	Heat Recovery from High Temperature Slags: A Review of Chemical Methods. Energies, 2015, 8, 1917-1935.	3.1	83
132	Synthesis, characterization and modeling of new building insulation material using ceramic polishing waste residue. Construction and Building Materials, 2015, 85, 119-126.	7.2	63
133	Fuel nitrogen conversion and release of nitrogen oxides during coal gangue calcination. Environmental Science and Pollution Research, 2015, 22, 7139-7146.	5.3	23
134	FTIR, Raman and NMR investigation of CaO-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> and CaO-SiO <sub>2</sub> -TiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> glasses. Journal of Non-Crystalline Solids, 2015, 420, 26-33.	3.1	102
135	Facile and economical synthesis of porous activated semi-coke for highly efficient and fast removal of microcystin-LR. Journal of Hazardous Materials, 2015, 299, 325-332.	12.4	17
136	Trace element partitioning behavior of coal gangue-fired CFB plant: experimental and equilibrium calculation. Environmental Science and Pollution Research, 2015, 22, 15469-15478.	5.3	29
137	Structural Roles of Boron and Silicon in the CaO-SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> Glasses Using FTIR, Raman, and NMR Spectroscopy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1549-1554.	2.1	62
138	Two-stage high temperature sludge gasification using the waste heat from hot blast furnace slags. Bioresource Technology, 2015, 198, 364-371.	9.6	45
139	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.	1.6	5
140	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.	3.1	48
141	Thermophysical Properties of Modified Ti-bearing Blast Furnace Slags. , 2015, , 703-709.		0
142	Effect of P <sub>2</sub> O <sub>5</sub> Addition on the Viscosity and Structure of Titanium Bearing Blast Furnace Slags. ISIJ International, 2014, 54, 1491-1497.	1.4	23
143	Effect of B <sub>2</sub> O <sub>3</sub> on the Structure and Viscous Behavior of Ti-Bearing Blast Furnace Slags. Jom, 2014, 66, 2168-2175.	1.9	55
144	Multi-Stage Control of Waste Heat Recovery from High Temperature Slags Based on Time Temperature Transformation Curves. Energies, 2014, 7, 1673-1684.	3.1	42

#	ARTICLE	IF	CITATIONS
145	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
146	Characteristics of low temperature biomass gasification and syngas release behavior using hot slag. <i>RSC Advances</i> , 2014, 4, 62105-62114.	3.6	36
147	Pyrite transformation and sulfur dioxide release during calcination of coal gangue. <i>RSC Advances</i> , 2014, 4, 42506-42513.	3.6	27
148	Experimental investigation and modeling of cooling processes of high temperature slags. <i>Energy</i> , 2014, 76, 761-767.	8.8	61
149	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
150	In situ DRIFTS investigation on the SCR of NO with NH <sub>3</sub> over V <sub>2</sub> O <sub>5</sub> catalyst supported by activated semi-coke. <i>Applied Surface Science</i> , 2014, 313, 660-669.	6.1	145
151	Investigation of the Viscosity and Structural Properties of CaO-SiO <sub>2</sub> -TiO <sub>2</sub> Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 1389-1397.	2.1	99
152	The Effect of P <sub>2</sub> O <sub>5</sub> 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
153	Low-temperature SCR of NO with NH <sub>3</sub> over activated semi-coke composite-supported rare earth oxides. <i>Applied Surface Science</i> , 2014, 309, 1-10.	6.1	71
154	Oxidation kinetics of magnesium aluminum oxynitride-boron nitride (MgAlON-BN) composites. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 829-834.	1.1	0
155	Raman spectroscopic study of the structural properties of CaO-MgO-SiO <sub>2</sub> -TiO <sub>2</sub> slags. <i>Journal of Non-Crystalline Solids</i> , 2013, 376, 209-215.	3.1	79
156	Activated Semi-coke in SO <sub>2</sub> Removal from Flue Gas: Selection of Activation Methodology and Desulfurization Mechanism Study. <i>Energy &amp; Fuels</i> , 2013, 27, 3080-3089.	5.1	78
157	Influence of Basicity and TiO <sub>2</sub> Content on the Precipitation Behavior of the Ti-bearing Blast Furnace Slags. <i>ISIJ International</i> , 2013, 53, 1696-1703.	1.4	50
158	Molecular Dynamics Study of the Structural Properties of Calcium Aluminosilicate Slags with Varying Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Ratios. <i>ISIJ International</i> , 2012, 52, 342-349.	1.4	92
159	Hydrothermal Synthesis of CeO <sub>2</sub> Nanoparticles on Activated Carbon with Enhanced Desulfurization Activity. <i>Energy &amp; Fuels</i> , 2012, 26, 5879-5886.	5.1	45
160	Effect of Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Ratio on the Viscosity and Structure of Slags. <i>ISIJ International</i> , 2012, 52, 753-758.	1.4	90
161	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
162	The Influence of SiO <sub>2</sub> on the Extraction of Ti Element from Ti-bearing Blast Furnace Slag. <i>Steel Research International</i> , 2011, 82, 607-614.	1.8	55

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163	Thermal Expansion of Magnesium Aluminum Oxynitride (Mg <sub>0.1</sub> Al <sub>1.6</sub> O <sub>2.2</sub> N <sub>0.2</sub> ). High Temperature Materials and Processes, 2008, 27, .	1.4	2
164	The Influence of Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Ratio on the Viscosity of Mold Fluxes. ISIJ International, 2008, 48, 739-746.	1.4	83
165	Synthesis and characterization of MgAlON-BN composites. International Journal of Materials Research, 2007, 98, 64-71.	0.3	3
166	Mechanical properties and microstructures of hot-pressed MgAlON-BN composites. Journal of the European Ceramic Society, 2007, 27, 319-326.	5.7	40
167	Kinetic studies of oxidation of $\hat{1}^3$ -AlON-TiN composites. Journal of Alloys and Compounds, 2005, 387, 74-81.	5.5	12