

Feng He

List of Publications by Year in descending order

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73
papers

1,946
citations

236925

25
h-index

276875

41
g-index

73
all docs

73
docs citations

73
times ranked

1545
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of MnO species and Mn valence states in MnO /TiO ₂ catalysts for low temperature SCR. Chemical Engineering Journal, 2015, 271, 23-30.	12.7	154
2	Calibration of Binding Energy Positions with C1s for XPS Results. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 711-718.	1.0	140
3	IR and Raman Spectra Properties of Bi ₂ O ₃ -ZnO-B ₂ O ₃ Quaternary Glass System. American Journal of Analytical Chemistry, 2014, 05, 1142-1150.		
4	Effect of CuMn ₂ O ₄ spinel in Cu-Mn oxide catalysts on selective catalytic reduction of NO _x with NH ₃ at low temperature. RSC Advances, 2014, 4, 25540.	3.6	90
5	Effect of Bi ₂ O ₃ on structure and wetting studies of Bi ₂ O ₃ -ZnO-B ₂ O ₃ glasses. Journal of Alloys and Compounds, 2011, 509, 6332-6336.	5.5	88
6	Performance and mechanism about MnO _x species included in MnO _x /TiO ₂ catalysts for SCR at low temperature. Catalysis Communications, 2012, 28, 77-81.	3.3	82
7	Preparation of high strength glass ceramic foams from waste cathode ray tube and germanium tailings. Construction and Building Materials, 2016, 111, 105-110.	7.2	67
8	Effects of surface physicochemical properties on NH ₃ -SCR activity of MnO ₂ catalysts with different crystal structures. Chinese Journal of Catalysis, 2017, 38, 1925-1934.	14.0	62
9	Low temperature NH ₃ -SCR of NO over an unexpected Mn-based catalyst: Promotional effect of Mg doping. Applied Surface Science, 2018, 427, 45-55.	6.1	56
10	Fabrication and characterization of glass-ceramics materials developed from steel slag waste. Materials & Design, 2012, 42, 198-203.	5.1	55
11	Low Li ₂ O content study in Li ₂ O-Al ₂ O ₃ -SiO ₂ glass-ceramics. Journal of the European Ceramic Society, 2019, 39, 4988-4995.	5.7	55
12	Crystallization mechanism and properties of glass ceramics from modified molten blast furnace slag. Journal of Non-Crystalline Solids, 2018, 502, 164-171.	3.1	51
13	Structure of Bi ₂ O ₃ -ZnO-B ₂ O ₃ system low-melting sealing glass. Central South University, 2010, 17, 257-262.	0.5	45
14	Enhancement of the NH ₃ -SCR property of Ce-Zr-Ti by surface and structure modification with P. Applied Surface Science, 2020, 505, 144641.	6.1	44
15	Preparation and characterization of CaO-Al ₂ O ₃ -SiO ₂ glass-ceramics from molybdenum tailings. Materials Chemistry and Physics, 2017, 197, 57-64.	4.0	43
16	Thermodynamic calculation for the activity and mechanism of Mn/TiO ₂ catalyst doped transition metals for SCR at low temperature. Catalysis Communications, 2014, 52, 45-48.	3.3	36
17	Experimental and DFT study of the adsorption and activation of NH ₃ and NO on Mn-based spinels supported on TiO ₂ catalysts for SCR of NO _x . Computational Materials Science, 2019, 160, 374-381.	3.0	36
18	Novel heterogeneous denitrification catalyst over a wide temperature range: Synergy between CeO ₂ , ZrO ₂ and TiO ₂ . Chemical Engineering Journal, 2019, 356, 598-608.	12.7	35

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19	Effects of Na ₂ O/BaO ratio on the structure and the physical properties of low-temperature glass-ceramic vitrified bonds. <i>Ceramics International</i> , 2018, 44, 10871-10877.	4.8	32
20	First principles and experimental study of NH ₃ adsorptions on MnO _x surface. <i>Applied Surface Science</i> , 2013, 285, 215-219.	6.1	31
21	Performance enhancement mechanism of Mn-based catalysts prepared under N ₂ for NO _x removal: Evidence of the poor crystallization and oxidation of MnO _x . <i>Chinese Journal of Catalysis</i> , 2017, 38, 845-851.	14.0	31
22	Characterization of low sintering temperature and high strength SiO ₂ -B ₂ O ₃ -CaO vitrified bonds for diamond abrasive tools. <i>Ceramics International</i> , 2015, 41, 3449-3455.	4.8	30
23	Effects of Al/Na and heat treatment on the structure and properties of glass ceramics from molten blast furnace slag. <i>Ceramics International</i> , 2019, 45, 13692-13700.	4.8	29
24	Mechanistic study of Ce-modified MnO _x /TiO ₂ catalysts with high NH ₃ -SCR performance and SO ₂ resistance at low temperatures. <i>Research on Chemical Intermediates</i> , 2017, 43, 5413-5432.	2.7	28
25	Effects of precursors and preparation methods on the potassium deactivation of MnO _x /TiO ₂ catalysts for NO removal. <i>Fuel Processing Technology</i> , 2015, 134, 465-472.	7.2	27
26	Characterization and performance of common alkali metals and alkaline earth metals loaded Mn/TiO ₂ catalysts for NO _x removal with NH ₃ . <i>Journal of the Energy Institute</i> , 2019, 92, 319-331.	5.3	26
27	Excellent sulfur tolerance performance over Fe-SO ₄ /TiO ₂ catalysts for NH ₃ -SCR: Influence of sulfation and Fe-based sulfates. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107038.	6.7	26
28	Preparation and properties of sintered glass-ceramics containing Au-Cu tailing waste. <i>Materials and Design</i> , 2015, 86, 782-787.	7.0	24
29	Effect of heat treatments on the Li ₂ O-Al ₂ O ₃ -SiO ₂ -B ₂ O ₃ -BaO glass-ceramic bond and the glass-ceramic bond cBN grinding tools. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 78, 201-209.	3.8	24
30	Effects of fluoride content on structure and properties of steel slag glass-ceramics. <i>Materials Chemistry and Physics</i> , 2020, 242, 122531.	4.0	22
31	Structure, crystallization mechanism, and properties of glass ceramics from molten blast furnace slag with different B ₂ O ₃ /Al ₂ O ₃ . <i>Materials Chemistry and Physics</i> , 2020, 243, 122664.	4.0	19
32	Influence of Al ₂ O ₃ on the structure and the physical properties of low-temperature ceramic vitrified bond. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 587-594.	5.6	18
33	Kinetic analysis of crystallization in Li ₂ O-Al ₂ O ₃ -SiO ₂ -B ₂ O ₃ -BaO glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2018, 491, 106-113.	3.1	18
34	Evaluating the Intermetallic Interaction of Fe or Cu Doped Mn/TiO ₂ Catalysts: SCR Activity and Sulfur Tolerance. <i>Catalysis Letters</i> , 2019, 149, 788-797.	2.6	18
35	Effect of WO ₃ on the structure and properties of low sintering temperature and high strength vitrified bonds. <i>Journal of Alloys and Compounds</i> , 2016, 679, 54-58.	5.5	17
36	Facile large-scale synthesis of Ce-Mn composites by redox-precipitation and its superior low-temperature performance for NO removal. <i>Powder Technology</i> , 2018, 338, 774-782.	4.2	17

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37	Exploring the influences of Li ₂ O/SiO ₂ ratio on Li ₂ O–Al ₂ O ₃ –SiO ₂ –B ₂ O ₃ –BaO glass-ceramic bonds for vitrified cBN abrasives. <i>Ceramics International</i> , 2019, 45, 15358-15365.	4.8	17
38	Viscosity and Structure of Lithium Sodium Borosilicate Glasses. <i>Physics Procedia</i> , 2013, 48, 73-80.	1.2	16
39	Mn ₅ O ₈ nanoflowers prepared via a solvothermal route as efficient denitration catalysts. <i>Materials Chemistry and Physics</i> , 2018, 209, 10-15.	4.0	16
40	Influences of Al ₂ O ₃ content on crystallization and physical properties of LAS glass-ceramics prepared from spodumene. <i>Journal of Non-Crystalline Solids</i> , 2022, 576, 121256.	3.1	16
41	Insight into highly efficient FeO _x catalysts for the selective catalytic reduction of NO _x by NH ₃ : Experimental and DFT study. <i>Applied Surface Science</i> , 2022, 599, 153998.	6.1	16
42	Effects of atmospheres and precursors on MnO _x /TiO ₂ catalysts for NH ₃ -SCR at low temperature. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 888-892.	1.0	15
43	Effect of SiO ₂ /BaO ratio on sintering behavior, crystallization behavior, and properties of SrO–BaO–B ₂ O ₃ –SiO ₂ glass-ceramics. <i>Ceramics International</i> , 2021, 47, 19043-19051.	4.8	15
44	Elucidate the promotional effects of Sn on Ce-Ti catalysts for NH ₃ -SCR activity. <i>Journal of the Energy Institute</i> , 2020, 93, 1053-1063.	5.3	14
45	Effect of Al/Si ratio on the crystallization properties and structure of mold flux. <i>Construction and Building Materials</i> , 2019, 216, 19-28.	7.2	13
46	Structure, viscosity, and crystallization of glass melt from molten blast furnace slag. <i>International Journal of Applied Glass Science</i> , 2020, 11, 676-684.	2.0	13
47	Melting, sintering and wetting properties of ZnO–Bi ₂ O ₃ –B ₂ O ₃ sealing glass. <i>Journal of Central South University</i> , 2016, 23, 1541-1547.	3.0	8
48	Effect of BaO on the structure and properties of bismuth-based low-melting glasses. <i>Advances in Applied Ceramics</i> , 2020, 119, 439-447.	1.1	8
49	Preparation and properties of CaO-Al ₂ O ₃ -SiO ₂ glass-ceramics by sintered frits particle from mining wastes. <i>Science of Sintering</i> , 2014, 46, 353-363.	1.4	8
50	Structure and sintering behavior of BaO–SrO–B ₂ O ₃ –SiO ₂ sealing glass for Al ₂ O ₃ ceramic substrates. <i>Ceramics International</i> , 2022, 48, 27718-27730.	4.8	8
51	Structure and luminescent properties of Sm ³⁺ doped SrO-MgO-SiO ₂ glass ceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 282-287.	1.0	7
52	Effect of acid treatment on surfaces of activated carbon supported catalysts for NO and SO ₂ removal. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2022, 30, 297-305.	2.1	7
53	Performance regulation of Mn/TiO ₂ catalysts by surfactants for the selective catalytic reduction of NO with NH ₃ at low temperatures. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018, 125, 647-661.	1.7	6
54	Influence of sodium on MnO _x /TiO ₂ catalysts for SCR of NO with NH ₃ at low temperature. <i>Materials Research Innovations</i> , 2014, 18, S4-45-S4-49.	2.3	5

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55	Effect of cobalt oxides on heat transfer property of peritectic steel mould flux. Ironmaking and Steelmaking, 2015, 42, 126-131.	2.1	5
56	Influence of deposition pressure on properties of ZnO: Al films fabricated by RF magnetron sputtering. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 1235-1239.	1.0	5
57	Effect of aluminum addition on microstructure and properties of SiO ₂ -B ₂ O ₃ -Al ₂ O ₃ -CaO vitrified bond. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 1267-1271.	1.0	5
58	The utilization of fly ash-MnO _x /FA catalysts for NO _x removal. Materials Research Express, 2018, 5, 065526.	1.6	5
59	Preparation and characterization of vitrified CeO ₂ coated cBN composites. Ceramics International, 2019, 45, 19704-19709.	4.8	5
60	Cu, Co, or Ni species in exchanged Y zeolite catalysts and their denitration performance for selective catalytic reduction by ammonia. Applied Surface Science, 2022, 600, 154075.	6.1	5
61	Influence of ZrO ₂ on sintering and crystallization of CaO-Al ₂ O ₃ -SiO ₂ glass-ceramics. Central South University, 2005, 12, 511-514.	0.5	4
62	Preparation and microstructure of glass-ceramics and ceramic composite materials. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 562-565.	1.0	4
63	Study on novel and promising NH ₃ -SCR catalysts on glass fiber cloth for industrial applications. Materials Research Express, 2017, 4, 055503.	1.6	4
64	The superior performance of hydrothermal method made CeZrTi catalyst for selective catalytic reduction of NO with NH ₃ . Materials Research Express, 2018, 5, 115514.	1.6	2
65	NH ₃ -SCR Performance and Applicability of Mn-Based Spinel over TiO ₂ Catalyst. Materials Science Forum, 2018, 921, 29-34.	0.3	2
66	Pyrolysis characteristics and mechanism of hydrocarbon compounds for RDF. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 13-20.	2.1	2
67	Study on sintered glass ceramics from Nb-Ta tailings. Glass Physics and Chemistry, 2012, 38, 109-115.	0.7	1
68	The effect of Bi ₂ O ₃ on the structure and properties of float glass. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 898-901.	1.0	1
69	Microstructure and mechanical properties of ceramics prepared under simulated oxygen-enriched or oxy-fuel atmosphere. Ceramics International, 2015, 41, 2779-2784.	4.8	1
70	Effect of the cool system on internal stress of CaO-Al ₂ O ₃ -SiO ₂ glass-ceramic system. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 760-763.	1.0	0
71	Effect of glass colour agent on the heat transfer property of peritectic steel mould flux. Materials Research Innovations, 2015, 19, S8-665-S8-669.	2.3	0
72	Effect of Calcination Temperature on the SCR Activity of Fe ²⁺ /TiO ₂ Catalysts. Springer Proceedings in Energy, 2018, , 929-935.	0.3	0

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73	Effect of Reaction Temperature on CeO ₂ -Coated cBN Particles for Vitrified cBN Abrasive Tools. Springer Proceedings in Physics, 2019, , 9-16.	0.2	0