Hua Wang

List of Publications by Year
in descending order

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76	2,193	279798	223800
papers	citations	23 h-index	46 g-index

78	78	78	1883
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designed oxygen carriers from macroporous LaFeO3 supported CeO2 for chemical-looping reforming of methane. Applied Catalysis B: Environmental, 2017, 202, 51-63.	20.2	306
2	Exploring the ternary interactions in Cuâ€“ZnOâ€“ZrO2 catalysts for efficient CO2 hydrogenation to methanol. Nature Communications, 2019, 10, 1166.	12.8	258
3	Ceâ€“Fe oxygen carriers for chemical-looping steam methane reforming. International Journal of Hydrogen Energy, 2013, 38, 4492-4501.	7.1	191
4	Syngas production from methane and air via a redox process using Ceâ€“Fe mixed oxides as oxygen carriers. Applied Catalysis B: Environmental, 2010, 97, 361-372.	20.2	183
5	Chemical-Looping Steam Methane Reforming over a CeO₂â€“Fe₂O₃ Oxygen Carrier: Evolution of Its Structure and Reducibility. Energy & Fuels, 2014, 28, 754-760.	5.1	137
6	Density functional theory studies of transition metal carbides and nitrides as electrocatalysts. Chemical Society Reviews, 2021, 50, 12338-12376.	38.1	103
7	Enhanced reducibility and redox stability of Fe₂O₃ in the presence of CeO₂ nanoparticles. RSC Advances, 2014, 4, 47191-47199.	3.6	70
8	Chemical-looping steam methane reforming over macroporous CeO2â€“ZrO2 solid solution: Effect of calcination temperature. International Journal of Hydrogen Energy, 2014, 39, 13361-13368.	7.1	61
9	Ce1-xFexO2-Î´ catalysts for catalytic methane combustion: Role of oxygen vacancy and structural dependence. Catalysis Today, 2018, 318, 73-85.	4.4	55
10	Colored Noise Enhanced Stability in a Tumor Cell Growth System Under Immune Response. Journal of Statistical Physics, 2010, 141, 889-908.	1.2	49
11	Self-enhanced and efficient removal of arsenic from waste acid using magnetite as an in situ iron donator. Water Research, 2019, 157, 269-280.	11.3	46
12	Modification of CeO2 on the redox property of Fe2O3. Materials Letters, 2013, 93, 129-132.	2.6	45
13	Enhanced Activity of CeO₂â€“ZrO₂ Solid Solutions for Chemical-Looping Reforming of Methane via Tuning the Macroporous Structure. Energy & Fuels, 2016, 30, 638-647.	5.1	44
14	Chloridization and Reduction Roasting of High-Magnesium Low-Nickel Oxide Ore Followed by Magnetic Separation to Enrich Ferronickel Concentrate. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 145-153.	2.1	40
15	Carbonâ€Modified CuO/ZnO Catalyst with High Oxygen Vacancy for CO₂ Hydrogenation to Methanol. Energy Technology, 2020, 8, 2000194.	3.8	40
16	Chemical Looping Co-splitting of H₂Oâ€“CO₂ for Efficient Generation of Syngas. ACS Sustainable Chemistry and Engineering, 2019, 7, 15452-15462.	6.7	37
17	A tailored multi-functional catalyst for ultra-efficient styrene production under a cyclic redox scheme. Nature Communications, 2021, 12, 1329.	12.8	35
18	Selective Oxidation of Carbon Using Iron-Modified Cerium Oxide. Journal of Physical Chemistry C, 2009, 113, 15288-15297.	3.1	32

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19	Disposal of high-arsenic waste acid by the stepwise formation of gypsum and scorodite. RSC Advances, 2020, 10, 29-42.	3.6	32
20	Characteristic of macroporous CeO2-ZrO2 oxygen carrier for chemical-looping steam methane reforming. Journal of Rare Earths, 2014, 32, 842-848.	4.8	30
21	Solid-State Metalized Reduction of Magnesium-Rich Low-Nickel Oxide Ores Using Coal as the Reductant Based on Thermodynamic Analysis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2037-2046.	2.1	25
22	Hydrogenation of CO2 to methanol over Auâ€“CuO/SBA-15 catalysts. Journal of Porous Materials, 2017, 24, 591-599.	2.6	25
23	Self-generated Ni nanoparticles/LaFeO3 heterogeneous oxygen carrier for robust CO2 utilization under a cyclic redox scheme. Nano Energy, 2021, 89, 106379.	16.0	25
24	Ultra-Fine CeO₂ Particles Triggered Strong Interaction with LaFeO₃ Framework for Total and Preferential CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 42274-42284.	8.0	24
25	Syngas production from methane over CeO2-Fe2O3 mixed oxides using a chemical-looping method. Kinetics and Catalysis, 2013, 54, 326-333.	1.0	20
26	Effect of Iron Phase Evolution on Copper Separation from Slag Via Coal-Based Reduction. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3086-3096.	2.1	19
27	Moderate-temperature chemical looping splitting of CO2 and H2O for syngas generation. Chemical Engineering Journal, 2020, 397, 125393.	12.7	19
28	Characterization and Recovery of Copper from Converter Copper Slag Via Smelting Separation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2458-2468.	2.1	16
29	Estimation of Kinematic Viscosity of Biodiesel Fuels from Fatty Acid Methyl Ester Composition and Temperature. Journal of Chemical & Engineering Data, 2020, 65, 2476-2485.	1.9	16
30	Cellulose decomposition behavior in hot-compressed aprotic solvents. Science in China Series B: Chemistry, 2008, 51, 479-486.	0.8	15
31	Smelting Oxidation Desulfurization of Copper Slags. Journal of Iron and Steel Research International, 2012, 19, 14-20.	2.8	14
32	Enhanced Performance of Chemical Looping Combustion of CO with CaSO₄-CaO Oxygen Carrier. Energy & Fuels, 2017, 31, 5255-5265.	5.1	14
33	Effect of Sodium Carbonate on Phase Transformation of High-Magnesium Laterite Ore. Materials Transactions, 2017, 58, 790-794.	1.2	14
34	Smelting chlorination method applied to removal of copper from copper slags. Journal of Central South University, 2015, 22, 59-65.	3.0	13
35	Characteristics of CaSâ€“CaO Oxidation for Chemical Looping Combustion with a CaSO₄-Based Oxygen Carrier. Energy & Fuels, 2017, 31, 13842-13851.	5.1	12
36	Mixture of ilmenite and high phosphorus iron ore smelted by oxygen-enriched top-blown smelting reduction. Journal of Central South University, 2012, 19, 2760-2767.	3.0	9

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37	Morphology and activity relationships of macroporous CuOâ€“ZnOâ€“ZrO2 catalysts for methanol synthesis from CO2 hydrogenation. Rare Metals, 2016, 35, 790-796.	7.1	9
38	Highly effective remediation of high-arsenic wastewater using red mud through formation of AlAsO4@silicate precipitate. Environmental Pollution, 2021, 287, 117484.	7.5	9
39	Ilmenite Smelted by Oxygen-Enriched Top-Blown Smelting Reduction. Journal of Iron and Steel Research International, 2011, 18, 7-13.	2.8	8
40	Recovery of Ni from the Acid Leaching Solution of Electroplating Sludge through Preparing Ni-Fe Alloy with the Addition of Saccharin Na First and then Thiourea. Electrochemistry, 2019, 87, 8-13.	1.4	8
41	Qualitative and quantitative analysis of the influence of biodiesel fatty acid methyl esters on iodine value. Environmental Science and Pollution Research, 2022, 29, 2432-2447.	5.3	8
42	Thermochemical liquefaction characteristics of Cyanobacteria in subcritical and supercritical ethanol-water mixture. International Journal of Energy Research, 2017, 41, 1460-1473.	4.5	7
43	Effects of K ions doping on the structure, morphology and optical properties of Cu2FeSnS4 thin films prepared by blade-coating process. Optoelectronics Letters, 2017, 13, 291-294.	0.8	6
44	Study on the performance of NiO/Zn_xZr_{1â^'x} catalysts for CO₂ hydrogenation. RSC Advances, 2020, 10, 42790-42798.	3.6	6
45	A novel method for measuring spatial uniformity of irregular boiling bubbles in a direct contact heat exchanger. International Journal of Energy Research, 2020, 44, 8823-8840.	4.5	6
46	Selective oxidation of methane to syngas using Pr0.7Zr0.3O2â€“Î”: Stability of oxygen carrier. Transactions of Nonferrous Metals Society of China, 2015, 25, 1248-1253.	4.2	5
47	The zone strong coupling two-channel totally asymmetric simple exclusion processes. Open Physics, 2011, 9, 1077-1083.	1.7	4
48	Effect of additives on anode passivation in direct electrolysis process of copperâ€”nickel based alloy scraps. Journal of Central South University, 2018, 25, 754-763.	3.0	4
49	Reduction and Sulfurization Behavior of Tin Phases in Tin-bearing Iron Concentrates with Sulfates in Sulfur-bearing Stone Coal. ISIJ International, 2018, 58, 453-459.	1.4	4
50	Adaptive Vehicle Shadow Detection Algorithm in Highway. , 2012, , .		3
51	Chaotic characterization of macromixing effect in a gasâ€“liquid stirring system using modified 0â€“1 test. Canadian Journal of Chemical Engineering, 2022, 100, 261-275.	1.7	3
52	Simulation model for crane scheduling in workshop of steel-making plant based on MAS. , 2010, , .		2
53	Base Vector Learning Mechanism for Fuzzy Model. , 2010, , .		2
54	The module of prediction of College Entrance Examination aspiration. , 2012, , .		2

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55	Silicon-based Micro Direct Methanol Fuel Cell Stack to Power Portable Devices Using MEMS Technology. Integrated Ferroelectrics, 2014, 153, 133-139.	0.7	2
56	Iron Removal from Copper-based Alloy Scraps through Oxidation Slagging Process. ISIJ International, 2018, 58, 1361-1367.	1.4	2
57	Study on Flame Characteristics during Biodiesel Combustion in Industrial Furnaces. Energy & Fuels, 2019, 33, 9138-9148.	5.1	2
58	Electrodeposition of Cu2+ in presence of Ni2+ in sulfuric acid system. Ionics, 2019, 25, 5045-5056.	2.4	2
59	NUMERICAL SIMULATION OF HEAT TRANSFER IN DIRECTIONAL SOLIDIFICATION PROCESS FOR POLYCRYSTALLINE SILICON. Environmental Engineering and Management Journal, 2011, 10, 733-737.	0.6	2
60	Modeling simulation and optimization study of the mode of “route with one open ladle from BF to BOF” in BF - BOF region based on WITNESS. , 2010, , .		1
61	Effect of the Operation Conditions on Gasification of Municipal Solid Waste. , 2010, , .		1
62	Concentration Prediction of 4-CBA Based on Local Weighted LS-SVM. , 2010, , .		1
63	Notice of Retraction: Study on the strategies of CFD technology application. , 2010, , .		1
64	Fabrication of MEMS-based Micro Direct Methanol Fuel Cell Using Porous Silicon as Catalysts Substrates. Integrated Ferroelectrics, 2014, 153, 79-86.	0.7	1
65	Ferronickel preparation using Ni-Fe co-deposition process. Journal of Central South University, 2016, 23, 3072-3078.	3.0	1
66	Deformation characteristics of the bubble in water-biodiesel immiscible fluids. Thermal Science, 2022, 26, 4355-4365.	1.1	1
67	Instantaneous deformation characteristics of a single bubble in immiscible fluids. Journal of Iron and Steel Research International, 0, , 1.	2.8	1
68	A Multi-Agent Systems model for rolling system based on Petri Nets. , 2010, , .		0
69	Notice of Retraction: Fractal analysis of mixing time in gas-liquid-solid stirred reactor based on CFD and image processing. , 2010, , .		0
70	Notice of Retraction: Pipeline transportation of solid materials intelligent monitoring systems design. , 2010, , .		0
71	Modeling and simulating for the manufacturing process of metallurgy based on System Dynamics. , 2010, , .		0
72	Escape of Brownian particles and stochastic resonance with low-temperature quantum fluctuations. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1388-1393.	5.1	0

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73	Modified Nafion polymer electrolyte membranes by Î³-ray irradiation used in direct methanol fuel cells. Journal of Shanghai Jiaotong University (Science), 2012, 17, 579-585.	0.9	0
74	Optimization of reducing acid of high-acid feedstock of biodiesel based on artificial neural networks. , 2013, , .		0
75	ICOPE-15-C161 Preparation of gallic acid esters and research of their antioxidant properties for biodiesel. The Proceedings of the International Conference on Power Engineering (ICOPE), 2015, 2015.12, _ICOPE-15--_ICOPE-15-.	0.0	0
76	Prediction of biodiesel iodine value from its fatty acids composition using a novel approach. The Proceedings of the International Conference on Power Engineering (ICOPE), 2021, 2021.15, 2021-0243.	0.0	0