

Hua Wang

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,193
citations

279798

23
h-index

223800

46
g-index

78
all docs

78
docs citations

78
times ranked

1883
citing authors

#	ARTICLE	IF	CITATIONS
1	Chaotic characterization of macromixing effect in a gas-liquid stirring system using modified 1 test. Canadian Journal of Chemical Engineering, 2022, 100, 261-275.	1.7	3
2	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
3	Deformation characteristics of the bubble in water-biodiesel immiscible fluids. Thermal Science, 2022, 26, 4355-4365.	1.1	1
4	A tailored multi-functional catalyst for ultra-efficient styrene production under a cyclic redox scheme. Nature Communications, 2021, 12, 1329.	12.8	35
5	Highly effective remediation of high-arsenic wastewater using red mud through formation of AlAsO ₄ @silicate precipitate. Environmental Pollution, 2021, 287, 117484.	7.5	9
6	Self-generated Ni nanoparticles/LaFeO ₃ heterogeneous oxygen carrier for robust CO ₂ utilization under a cyclic redox scheme. Nano Energy, 2021, 89, 106379.	16.0	25
7	Density functional theory studies of transition metal carbides and nitrides as electrocatalysts. Chemical Society Reviews, 2021, 50, 12338-12376.	38.1	103
8	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
9	Disposal of high-arsenic waste acid by the stepwise formation of gypsum and scorodite. RSC Advances, 2020, 10, 29-42.	3.6	32
10	Study on the performance of NiO/Zn _x Zr _{1-x} catalysts for CO ₂ hydrogenation. RSC Advances, 2020, 10, 42790-42798.	3.6	6
11	Ultra-Fine CeO ₂ Particles Triggered Strong Interaction with LaFeO ₃ Framework for Total and Preferential CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 42274-42284.	8.0	24
12	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
13	Moderate-temperature chemical looping splitting of CO ₂ and H ₂ O for syngas generation. Chemical Engineering Journal, 2020, 397, 125393.	12.7	19
14	Carbon-Modified CuO/ZnO Catalyst with High Oxygen Vacancy for CO ₂ Hydrogenation to Methanol. Energy Technology, 2020, 8, 2000194.	3.8	40
15	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
16	Study on Flame Characteristics during Biodiesel Combustion in Industrial Furnaces. Energy & Fuels, 2019, 33, 9138-9148.	5.1	2
17	Chemical Looping Co-splitting of H ₂ and CO ₂ for Efficient Generation of Syngas. ACS Sustainable Chemistry and Engineering, 2019, 7, 15452-15462.	6.7	37
18	Electrodeposition of Cu ²⁺ in presence of Ni ²⁺ in sulfuric acid system. Ionics, 2019, 25, 5045-5056.	2.4	2

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19	Exploring the ternary interactions in Cu-ZnO-ZrO ₂ catalysts for efficient CO ₂ hydrogenation to methanol. <i>Nature Communications</i> , 2019, 10, 1166.	12.8	258
20	Self-enhanced and efficient removal of arsenic from waste acid using magnetite as an in situ iron donator. <i>Water Research</i> , 2019, 157, 269-280.	11.3	46
21	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. <i>Electrochemistry</i> , 2019, 87, 8-13.	1.4	8
22	Effect of additives on anode passivation in direct electrolysis process of copper-nickel based alloy scraps. <i>Journal of Central South University</i> , 2018, 25, 754-763.	3.0	4
23	Ce _{1-x} Fe _x O _{2-δ} catalysts for catalytic methane combustion: Role of oxygen vacancy and structural dependence. <i>Catalysis Today</i> , 2018, 318, 73-85.	4.4	55
24	Reduction and Sulfurization Behavior of Tin Phases in Tin-bearing Iron Concentrates with Sulfates in Sulfur-bearing Stone Coal. <i>ISIJ International</i> , 2018, 58, 453-459.	1.4	4
25	Characterization and Recovery of Copper from Converter Copper Slag Via Smelting Separation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 2458-2468.	2.1	16
26	Iron Removal from Copper-based Alloy Scraps through Oxidation Slagging Process. <i>ISIJ International</i> , 2018, 58, 1361-1367.	1.4	2
27	Effect of Iron Phase Evolution on Copper Separation from Slag Via Coal-Based Reduction. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3086-3096.	2.1	19
28	Thermochemical liquefaction characteristics of Cyanobacteria in subcritical and supercritical ethanol-water mixture. <i>International Journal of Energy Research</i> , 2017, 41, 1460-1473.	4.5	7
29	Enhanced Performance of Chemical Looping Combustion of CO with CaSO ₄ -CaO Oxygen Carrier. <i>Energy & Fuels</i> , 2017, 31, 5255-5265.	5.1	14
30	Effects of K ions doping on the structure, morphology and optical properties of Cu ₂ FeSnS ₄ thin films prepared by blade-coating process. <i>Optoelectronics Letters</i> , 2017, 13, 291-294.	0.8	6
31	Characteristics of Ca-CaO Oxidation for Chemical Looping Combustion with a CaSO ₄ -Based Oxygen Carrier. <i>Energy & Fuels</i> , 2017, 31, 13842-13851.	5.1	12
32	Solid-State Metalized Reduction of Magnesium-Rich Low-Nickel Oxide Ores Using Coal as the Reductant Based on Thermodynamic Analysis. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2037-2046.	2.1	25
33	Hydrogenation of CO ₂ to methanol over Au-CuO/SBA-15 catalysts. <i>Journal of Porous Materials</i> , 2017, 24, 591-599.	2.6	25
34	Designed oxygen carriers from macroporous LaFeO ₃ supported CeO ₂ for chemical-looping reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 51-63.	20.2	306
35	Effect of Sodium Carbonate on Phase Transformation of High-Magnesium Laterite Ore. <i>Materials Transactions</i> , 2017, 58, 790-794.	1.2	14
36	Ferronickel preparation using Ni-Fe co-deposition process. <i>Journal of Central South University</i> , 2016, 23, 3072-3078.	3.0	1

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37	Enhanced Activity of CeO ₂ –ZrO ₂ Solid Solutions for Chemical-Looping Reforming of Methane via Tuning the Macroporous Structure. <i>Energy & Fuels</i> , 2016, 30, 638-647.	5.1	44
38	Chloridization and Reduction Roasting of High-Magnesium Low-Nickel Oxide Ore Followed by Magnetic Separation to Enrich Ferronickel Concentrate. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 145-153.	2.1	40
39	Morphology and activity relationships of macroporous CuO–ZnO–ZrO ₂ catalysts for methanol synthesis from CO ₂ hydrogenation. <i>Rare Metals</i> , 2016, 35, 790-796.	7.1	9
40	Smelting chlorination method applied to removal of copper from copper slags. <i>Journal of Central South University</i> , 2015, 22, 59-65.	3.0	13
41	Selective oxidation of methane to syngas using Pr _{0.7} Zr _{0.3} O ₂ – γ : Stability of oxygen carrier. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 1248-1253.	4.2	5
42	ICOPE-15-C161 Preparation of gallic acid esters and research of their antioxidant properties for biodiesel. <i>The Proceedings of the International Conference on Power Engineering (ICOPE)</i> , 2015, 2015.12, _ICOPE-15--_ICOPE-15-.	0.0	0
43	Fabrication of MEMS-based Micro Direct Methanol Fuel Cell Using Porous Silicon as Catalysts Substrates. <i>Integrated Ferroelectrics</i> , 2014, 153, 79-86.	0.7	1
44	Silicon-based Micro Direct Methanol Fuel Cell Stack to Power Portable Devices Using MEMS Technology. <i>Integrated Ferroelectrics</i> , 2014, 153, 133-139.	0.7	2
45	Enhanced reducibility and redox stability of Fe ₂ O ₃ in the presence of CeO ₂ nanoparticles. <i>RSC Advances</i> , 2014, 4, 47191-47199.	3.6	70
46	Characteristic of macroporous CeO ₂ -ZrO ₂ oxygen carrier for chemical-looping steam methane reforming. <i>Journal of Rare Earths</i> , 2014, 32, 842-848.	4.8	30
47	Chemical-Looping Steam Methane Reforming over a CeO ₂ –Fe ₂ O ₃ Oxygen Carrier: Evolution of Its Structure and Reducibility. <i>Energy & Fuels</i> , 2014, 28, 754-760.	5.1	137
48	Chemical-looping steam methane reforming over macroporous CeO ₂ –ZrO ₂ solid solution: Effect of calcination temperature. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13361-13368.	7.1	61
49	Syngas production from methane over CeO ₂ -Fe ₂ O ₃ mixed oxides using a chemical-looping method. <i>Kinetics and Catalysis</i> , 2013, 54, 326-333.	1.0	20
50	Ce–Fe oxygen carriers for chemical-looping steam methane reforming. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4492-4501.	7.1	191
51	Modification of CeO ₂ on the redox property of Fe ₂ O ₃ . <i>Materials Letters</i> , 2013, 93, 129-132.	2.6	45
52	Optimization of reducing acid of high-acid feedstock of biodiesel based on artificial neural networks. , 2013, , .		0
53	The module of prediction of College Entrance Examination aspiration. , 2012, , .		2
54	Modified Nafion polymer electrolyte membranes by γ -ray irradiation used in direct methanol fuel cells. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2012, 17, 579-585.	0.9	0

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55	Adaptive Vehicle Shadow Detection Algorithm in Highway. , 2012, , .		3
56	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
57	Smelting Oxidation Desulfurization of Copper Slags. Journal of Iron and Steel Research International, 2012, 19, 14-20.	2.8	14
58	Ilmenite Smelted by Oxygen-Enriched Top-Blown Smelting Reduction. Journal of Iron and Steel Research International, 2011, 18, 7-13.	2.8	8
59	The zone strong coupling two-channel totally asymmetric simple exclusion processes. Open Physics, 2011, 9, 1077-1083.	1.7	4
60	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
61	NUMERICAL SIMULATION OF HEAT TRANSFER IN DIRECTIONAL SOLIDIFICATION PROCESS FOR POLYCRYSTALLINE SILICON. Environmental Engineering and Management Journal, 2011, 10, 733-737.	0.6	2
62	A Multi-Agent Systems model for rolling system based on Petri Nets. , 2010, , .		0
63	Notice of Retraction: Fractal analysis of mixing time in gas-liquid-solid stirred reactor based on CFD and image processing. , 2010, , .		0
64	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
65	Colored Noise Enhanced Stability in a Tumor Cell Growth System Under Immune Response. Journal of Statistical Physics, 2010, 141, 889-908.	1.2	49
66	Syngas production from methane and air via a redox process using Ce–Fe mixed oxides as oxygen carriers. Applied Catalysis B: Environmental, 2010, 97, 361-372.	20.2	183
67	Simulation model for crane scheduling in workshop of steel-making plant based on MAS. , 2010, , .		2
68	Effect of the Operation Conditions on Gasification of Municipal Solid Waste. , 2010, , .		1
69	Notice of Retraction: Pipeline transportation of solid materials intelligent monitoring systems design. , 2010, , .		0
70	Modeling and simulating for the manufacturing process of metallurgy based on System Dynamics. , 2010, , .		0
71	Concentration Prediction of 4-CBA Based on Local Weighted LS-SVM. , 2010, , .		1
72	Base Vector Learning Mechanism for Fuzzy Model. , 2010, , .		2

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73	Notice of Retraction: Study on the strategies of CFD technology application. , 2010, , .		1
74	Selective Oxidation of Carbon Using Iron-Modified Cerium Oxide. Journal of Physical Chemistry C, 2009, 113, 15288-15297.	3.1	32
75	Cellulose decomposition behavior in hot-compressed aprotic solvents. Science in China Series B: Chemistry, 2008, 51, 479-486.	0.8	15
76	Instantaneous deformation characteristics of a single bubble in immiscible fluids. Journal of Iron and Steel Research International, 0, , 1.	2.8	1