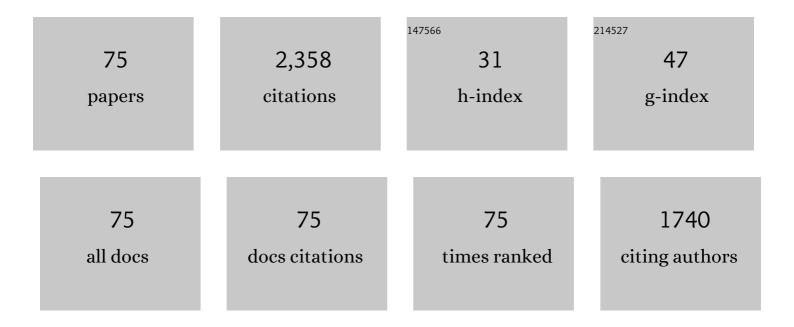
Wenguo Xiang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Oxygen vacancy induced performance enhancement of toluene catalytic oxidation using LaFeO3 perovskite oxides. Chemical Engineering Journal, 2020, 387, 124101.	6.6	121
2	Ca2Fe2O5: A promising oxygen carrier for CO/CH4 conversion and almost-pure H2 production with inherent CO2 capture over a two-step chemical looping hydrogen generation process. Applied Energy, 2018, 211, 431-442.	5.1	119
3	Experimental investigation of chemical-looping hydrogen generation using Al 2 O 3 or TiO 2 -supported iron oxides in a batch fluidized bed. International Journal of Hydrogen Energy, 2011, 36, 8915-8926.	3.8	101
4	Investigation of coal gasification hydrogen and electricity co-production plantÂwith three-reactors chemical looping process. International Journal of Hydrogen Energy, 2010, 35, 8580-8591.	3.8	96
5	Coal gasification integration with solid oxide fuel cell and chemical looping combustion for high-efficiency power generation with inherent CO2 capture. Applied Energy, 2015, 146, 298-312.	5.1	92
6	Improvement of H2-rich gas production with tar abatement from pine wood conversion over bi-functional Ca2Fe2O5 catalyst: Investigation of inner-looping redox reaction and promoting mechanisms. Applied Energy, 2018, 212, 931-943.	5.1	89
7	Effects of Zr doping on Fe2O3/CeO2 oxygen carrier in chemical looping hydrogen generation. Chemical Engineering Journal, 2018, 346, 712-725.	6.6	71
8	Chemical looping dry reforming of methane with hydrogen generation on Fe2O3/Al2O3 oxygen carrier. Chemical Engineering Journal, 2019, 368, 812-823.	6.6	67
9	Effects of CeO ₂ , ZrO ₂ , and Al ₂ O ₃ Supports on Iron Oxygen Carrier for Chemical Looping Hydrogen Generation. Energy & Fuels, 2017, 31, 8001-8013.	2.5	63
10	Hydrogen rich syngas production from biomass gasification using synthesized Fe/CaO active catalysts. Journal of the Energy Institute, 2018, 91, 805-816.	2.7	63
11	Effects of supports on hydrogen production and carbon deposition of Fe-based oxygen carriers in chemical looping hydrogen generation. International Journal of Hydrogen Energy, 2017, 42, 11006-11016.	3.8	60
12	Incorporating IGCC and CaO sorption-enhanced process for power generation with CO2 capture. Applied Energy, 2012, 95, 285-294.	5.1	59
13	Carbon formation on iron-based oxygen carriers during CH 4 reduction period in Chemical Looping Hydrogen Generation process. Chemical Engineering Journal, 2017, 325, 322-331.	6.6	59
14	Thermogravimetric and kinetics investigation of pine wood pyrolysis catalyzed with alkali-treated CaO/ZSM-5. Energy Conversion and Management, 2017, 146, 182-194.	4.4	57
15	Chemical looping oxidative steam reforming of methanol: A new pathway for auto-thermal conversion. Applied Catalysis B: Environmental, 2020, 269, 118758.	10.8	57
16	Calcium looping gasification for high-concentration hydrogen production with CO2 capture in a novel compact fluidized bed: Simulation and operation requirements. International Journal of Hydrogen Energy, 2011, 36, 4887-4899.	3.8	54
17	Enhanced sintering resistance of Fe2O3/CeO2 oxygen carrier for chemical looping hydrogen generation using core-shell structure. International Journal of Hydrogen Energy, 2019, 44, 6491-6504.	3.8	53
18	Steam gasification of sewage sludge with CaO as CO 2 sorbent for hydrogen-rich syngas production. Biomass and Bioenergy, 2017, 107, 52-62.	2.9	52

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19	Thermodynamic assessment and optimization of a pressurized fluidized bed oxy-fuel combustion power plant with CO2 capture. Energy, 2019, 175, 445-455.	4.5	47
20	Characterization of Fe 2 O 3 /CeO 2 oxygen carriers for chemical looping hydrogen generation. International Journal of Hydrogen Energy, 2018, 43, 3154-3164.	3.8	44
21	Effects of supports on reduction activity and carbon deposition of iron oxide for methane chemical looping hydrogen generation. Applied Energy, 2018, 225, 912-921.	5.1	43
22	Synergistic enhancement of chemical looping-based CO ₂ splitting with biomass cascade utilization using cyclic stabilized Ca ₂ Fe ₂ O ₅ aerogel. Journal of Materials Chemistry A, 2019, 7, 1216-1226.	5.2	43
23	An integrated system combining chemical looping hydrogen generation process and solid oxide fuel cell/gas turbine cycle for power production with CO2 capture. Journal of Power Sources, 2012, 215, 89-98.	4.0	42
24	Ni, Co and Cu-promoted iron-based oxygen carriers in methane-fueled chemical looping hydrogen generation process. Fuel Processing Technology, 2021, 221, 106917.	3.7	40
25	Experimental investigation of chemical looping hydrogen generation using iron oxides in a batch fluidized bed. Proceedings of the Combustion Institute, 2011, 33, 2691-2699.	2.4	39
26	Hydrogen-rich syngas production via sorption-enhanced steam gasification of sewage sludge. Biomass and Bioenergy, 2020, 138, 105607.	2.9	38
27	Integration of chemical looping combustion and supercritical CO2 cycle for combined heat and power generation with CO2 capture. Energy Conversion and Management, 2018, 167, 113-124.	4.4	36
28	Investigation of synergistic effects and high performance of La-Co composite oxides for toluene catalytic oxidation at low temperature. Environmental Science and Pollution Research, 2019, 26, 12123-12135.	2.7	36
29	Investigation of Gasification Chemical Looping Combustion Combined Cycle Performance. Energy & & amp; Fuels, 2008, 22, 961-966.	2.5	35
30	Biomass pyrolysis-gasification over Zr promoted CaO-HZSM-5 catalysts for hydrogen and bio-oil co-production with CO2 capture. International Journal of Hydrogen Energy, 2017, 42, 16031-16044.	3.8	33
31	Fe–O terminated LaFeO3 perovskite oxide surface for low temperature toluene oxidation. Journal of Cleaner Production, 2020, 277, 123224.	4.6	32
32	Sintering and agglomeration of Fe2O3-MgAl2O4 oxygen carriers with different Fe2O3 loadings in chemical looping processes. Fuel, 2020, 265, 116983.	3.4	32
33	Robust Constrained Fuzzy Affine Model Predictive Control With Application to a Fluidized Bed Combustion Plant. IEEE Transactions on Control Systems Technology, 2008, 16, 1047-1056.	3.2	29
34	Performance improvement of combined cycle power plant based on the optimization of the bottom cycle and heat recuperation. Journal of Thermal Science, 2007, 16, 84-89.	0.9	27
35	Energy and exergy analysis of a new hydrogen-fueled power plant based on calcium looping process. International Journal of Hydrogen Energy, 2013, 38, 5389-5400.	3.8	26
36	Highly efficient methane decomposition to H2 and CO2 reduction to CO via redox looping of Ca2FexAl2-xO5 supported NiyFe3-yO4 nanoparticles. Applied Catalysis B: Environmental, 2020, 271, 118938.	10.8	24

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37	Hydrogen and electricity co-production plant integrating steam-iron process and chemical looping combustion. International Journal of Hydrogen Energy, 2012, 37, 8204-8216.	3.8	23
38	Sorption enhanced coal gasification for hydrogen production using a synthesized CaOMgO-molecular sieve sorbent. International Journal of Hydrogen Energy, 2016, 41, 17323-17333.	3.8	23
39	Design and Fluid Dynamic Analysis of a Three-Fluidized-Bed Reactor System for Chemical-Looping Hydrogen Generation. Industrial & Engineering Chemistry Research, 2012, 51, 4267-4278.	1.8	22
40	Enhanced Hydrogen Generation for Fe ₂ O ₃ /CeO ₂ Oxygen Carrier via Rare-Earth (Y, Sm, and La) Doping in Chemical Looping Process. Energy & Fuels, 2018, 32, 11362-11374.	2.5	22
41	Simulation of the calcium looping process (CLP) for hydrogen, carbon monoxide and acetylene poly-generation with CO2 capture and COS reduction. Applied Energy, 2016, 169, 642-651.	5.1	21
42	Synergistic Effects of the Zr and Sm Co-doped Fe ₂ O ₃ /CeO ₂ Oxygen Carrier for Chemical Looping Hydrogen Generation. Energy & Fuels, 2020, 34, 10256-10267.	2.5	21
43	Process integration of coal fueled chemical looping hydrogen generation with SOFC for power production and CO2 capture. International Journal of Hydrogen Energy, 2017, 42, 28732-28746.	3.8	19
44	Solar–Wind–Bio Ecosystem for Biomass Cascade Utilization with Multigeneration of Formic Acid, Hydrogen, and Graphene. ACS Sustainable Chemistry and Engineering, 2019, 7, 2558-2568.	3.2	19
45	Experimental study on catalytic steam gasification of natural coke in a fluidized bed. Fuel Processing Technology, 2010, 91, 805-809.	3.7	18
46	Improvements of CaO-based sorbents for cyclic CO 2 capture using a wet mixing process. Chemical Engineering Journal, 2016, 286, 320-328.	6.6	18
47	Application of chemical looping air separation for MILD oxy-combustion: Identifying a suitable operational region. Applied Thermal Engineering, 2018, 132, 8-17.	3.0	17
48	Elucidation of syngas composition from catalytic steam gasification of lignin, cellulose, actual and simulated biomasses. Biomass and Bioenergy, 2018, 115, 210-222.	2.9	16
49	Investigation of coal fueled chemical looping combustion using Fe3O4 as oxygen carrier: Influence of variables. Journal of Thermal Science, 2010, 19, 266-275.	0.9	15
50	Thermodynamic analysis of oxy-fuel combustion integrated with the sCO2 Brayton cycle for combined heat and power production. Energy Conversion and Management, 2021, 232, 113869.	4.4	15
51	Boosting the surface oxygen activity for high performance Iron-based perovskite oxide. Science of the Total Environment, 2021, 795, 148904.	3.9	11
52	Investigation of a dual cold-flow fluidized bed for calcium looping gasification process. Powder Technology, 2019, 353, 10-19.	2.1	10
53	Application of incremental support vector regression based on optimal training subset and improved particle swarm optimization algorithm in real-time sensor fault diagnosis. Applied Intelligence, 2021, 51, 3323-3338.	3.3	9
54	Model predictive control for nonlinear boiler-turbine system based on fuzzy gain scheduling. , 2008, ,		8

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55	Investigations on fluid dynamics of binary particles in a dual fluidized bed reactor system for enhanced calcium looping gasification process. Powder Technology, 2020, 361, 803-811.	2.1	8
56	Classification and prediction of gas turbine gas path degradation based on deep neural networks. International Journal of Energy Research, 2021, 45, 10513-10526.	2.2	8
57	Enhanced Fe ₂ O ₃ /Al ₂ O ₃ Oxygen Carriers for Chemical Looping Steam Reforming of Methane with Different Mg Ratios. Industrial & Engineering Chemistry Research, 2022, 61, 1022-1031.	1.8	8
58	Application of chemical looping air separation for MILD oxyâ€combustion in the supercritical power plant with CO ₂ capture. Energy Science and Engineering, 2018, 6, 490-505.	1.9	6
59	Improved iron oxide oxygen carriers for chemical looping hydrogen generation using colloidal crystal templated method. International Journal of Hydrogen Energy, 2019, 44, 13175-13184.	3.8	6
60	Modification of Metal (Fe, Al) Doping on Reaction Properties of a NiO Oxygen Carrier with CO during Chemical Looping Combustion. ACS Omega, 2022, 7, 4381-4388.	1.6	5
61	Integration of molten carbonate fuel cell and chemical looping air separation for high-efficient power generation and CO2 capture. Energy, 2022, 254, 124184.	4.5	5
62	Promoting effect of ZrO2/CeO2 addition on Fe/CaO catalyst for hydrogen gas production in the gasification process. Biomass and Bioenergy, 2020, 142, 105712.	2.9	4
63	Chemometric modelling on element compositions and product distributions of cellulose and lignin. Biomass Conversion and Biorefinery, 2021, 11, 2233-2246.	2.9	4
64	Online coal quality analyzer-based decentralized PID control for the ALSTOM gasifier. , 2009, , .		3
65	Nonlinear system identification with modified differential evolution and RBF networks. , 2012, , .		3
66	Fuzzy dynamic modeling and predictive load following control of a solid oxide fuel cell power system. , 2008, , .		2
67	Gaisfier Following-Based Coordinated Control for the IGCC Power Plant. , 2009, , .		2
68	On-line identification of thermal process using a modified ts-type neuro-fuzzy system. , 2011, , .		2
69	Thermodynamic Analysis and Optimization of an Oxyfuel Fluidized Bed Combustion Power Plant for CO ₂ Capture. Industrial & Engineering Chemistry Research, 0, , .	1.8	2
70	Evolution of Smâ€Đoped Fe ₂ O ₃ /CeO ₂ Oxygen Carriers in Chemical Looping Hydrogen Generation. Energy Technology, 2021, 9, 2100535.	1.8	2
71	Dynamic modeling and control of the air separation unit in an IGCC power plant. , 2009, , .		1
72	Hydrodynamic Analysis of a Three-Fluidized Bed Reactor Cold Flow Model for Chemical Looping Hydrogen Generation: Pressure Characteristics. , 2013, , 1351-1359.		1

#	Article	IF	CITATIONS
73	Modeling and Simulation of the Low-Pressure Rectification Column in an IGCC Power Plant. , 2009, , .		0
74	A new neuro-fuzzy approach for nonlinear system identification based on differential evolution. , 2012, , .		0
75	Reduction Behavior of Iron Oxide for Chemical-Looping Hydrogen Generation in a Compact Fluidized Fuel Reactor. , 2014, , .		0