

Shuai Zhang

List of Publications by Year in descending order

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186265

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1286
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Pressurized chemical-looping combustion of coal with an iron ore-based oxygen carrier. <i>Combustion and Flame</i> , 2010, 157, 1140-1153. | 5.2 | 141 |
| 2 | Enhanced hydrogen production performance through controllable redox exsolution within CoFeAlO spinel oxygen carrier materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11306-11316. | 10.3 | 140 |
| 3 | Pressurized chemical-looping combustion of coal using an iron ore as oxygen carrier in a pilot-scale unit. <i>International Journal of Greenhouse Gas Control</i> , 2012, 10, 363-373. | 4.6 | 130 |
| 4 | An optimization model for carbon capture utilization and storage supply chain: A case study in Northeastern China. <i>Applied Energy</i> , 2018, 231, 194-206. | 10.1 | 80 |
| 5 | Pressurized Chemical-Looping Combustion of Chinese Bituminous Coal: Cyclic Performance and Characterization of Iron Ore-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2010, 24, 1449-1463. | 5.1 | 73 |
| 6 | Insights into the relationship between microstructural evolution and deactivation of Al_2O_3 supported Fe_2O_3 oxygen carrier in chemical looping combustion. <i>Energy Conversion and Management</i> , 2019, 188, 429-437. | 9.2 | 66 |
| 7 | Performance of CeO_2 -Modified Iron-Based Oxygen Carrier in the Chemical Looping Hydrogen Generation Process. <i>Energy & Fuels</i> , 2015, 29, 7612-7621. | 5.1 | 65 |
| 8 | Use of heavy fraction of bio-oil as fuel for hydrogen production in iron-based chemical looping process. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19955-19969. | 7.1 | 59 |
| 9 | Identifying iron-based oxygen carrier reduction during biomass chemical looping gasification on a thermogravimetric fixed-bed reactor. <i>Applied Energy</i> , 2018, 229, 404-412. | 10.1 | 59 |
| 10 | Use of Fe_2O_3 -Containing Industrial Wastes As the Oxygen Carrier for Chemical-Looping Combustion of Coal: Effects of Pressure and Cycles. <i>Energy & Fuels</i> , 2011, 25, 4357-4366. | 5.1 | 54 |
| 11 | Performance of $\text{Fe}_2\text{O}_3/\text{CaSO}_4$ composite oxygen carrier on inhibition of sulfur release in calcium-based chemical looping combustion. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 1-12. | 4.6 | 44 |
| 12 | Comparative study between fluidized-bed and fixed-bed operation modes in pressurized chemical looping combustion of coal. <i>Applied Energy</i> , 2014, 130, 181-189. | 10.1 | 44 |
| 13 | Bio-oil heavy fraction for hydrogen production by iron-based oxygen carrier redox cycle. <i>Fuel Processing Technology</i> , 2015, 139, 1-7. | 7.2 | 44 |
| 14 | Efficient CO_2 to CO conversion at moderate temperatures enabled by the cobalt and copper co-doped ferrite oxygen carrier. <i>Journal of Energy Chemistry</i> , 2020, 46, 123-132. | 12.9 | 44 |
| 15 | Multi-objective optimization for the deployment of carbon capture utilization and storage supply chain considering economic and environmental performance. <i>Journal of Cleaner Production</i> , 2020, 270, 122481. | 9.3 | 44 |
| 16 | A Review of the Resource and Test Production of Natural Gas Hydrates in China. <i>Energy & Fuels</i> , 2021, 35, 9137-9150. | 5.1 | 42 |
| 17 | Optimization-based approach for CO_2 utilization in carbon capture, utilization and storage supply chain. <i>Computers and Chemical Engineering</i> , 2020, 139, 106885. | 3.8 | 39 |
| 18 | Copper and cobalt co-doped ferrites as effective agents for chemical looping CO_2 splitting. <i>Chemical Engineering Journal</i> , 2020, 387, 124150. | 12.7 | 38 |

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|----|--|------|-----------|
| 19 | Enhanced hydrogen production performance at intermediate temperatures through the synergistic effects of binary oxygen carriers. <i>Applied Energy</i> , 2019, 252, 113454. | 10.1 | 37 |
| 20 | Use of Pyrite Cinder as an Iron-Based Oxygen Carrier in Coal-Fueled Chemical Looping Combustion. <i>Energy & Fuels</i> , 2015, 29, 2645-2655. | 5.1 | 35 |
| 21 | Nanostructured Fe ₂ O ₃ /MgAl ₂ O ₄ material prepared by colloidal crystal templated sol-gel method for chemical looping with hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22711-22721. | 7.1 | 34 |
| 22 | Multi-function of oxygen carrier for in-situ tar removal in chemical looping gasification: Naphthalene as a model compound. <i>Applied Energy</i> , 2019, 253, 113502. | 10.1 | 34 |
| 23 | Spatially controlled oxygen storage materials improved the syngas selectivity on chemical looping methane conversion. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119472. | 20.2 | 34 |
| 24 | Gas hydrate stability zone migration occurred in the Qilian mountain permafrost, Qinghai, Northwest China: Evidences from pyrite morphology and pyrite sulfur isotope. <i>Cold Regions Science and Technology</i> , 2014, 98, 8-17. | 3.5 | 33 |
| 25 | Phenol and/or Zn ²⁺ adsorption by single- or dual-cation organomontmorillonites. <i>Applied Clay Science</i> , 2017, 140, 1-9. | 5.2 | 33 |
| 26 | Iron oxides with gadolinium-doped cerium oxides as active supports for chemical looping hydrogen production. <i>Chemical Engineering Journal</i> , 2020, 396, 125153. | 12.7 | 33 |
| 27 | Redox performance of pyrite cinder in methane chemical looping combustion. <i>Chemical Engineering Journal</i> , 2020, 395, 125097. | 12.7 | 33 |
| 28 | Synergistic effects of binary oxygen carriers during chemical looping hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21290-21302. | 7.1 | 31 |
| 29 | Tuning the Support Properties toward Higher CO ₂ Conversion during a Chemical Looping Scheme. <i>Environmental Science & Technology</i> , 2020, 54, 12467-12475. | 10.0 | 30 |
| 30 | Risk management optimization framework for the optimal deployment of carbon capture and storage system under uncertainty. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109280. | 16.4 | 27 |
| 31 | Activation Mechanism of Fe ₂ O ₃ -Al ₂ O ₃ Oxygen Carrier in Chemical Looping Combustion. <i>Energy & Fuels</i> , 2020, 34, 16350-16355. | 5.1 | 27 |
| 32 | Mn-Fe-Al-O mixed spinel oxides as oxygen carrier for chemical looping hydrogen production with CO ₂ capture. <i>Fuel</i> , 2020, 274, 117854. | 6.4 | 27 |
| 33 | Inhibited Phase Segregation to Enhance the Redox Performance of NiFe ₂ O ₄ via CeO ₂ Modification in the Chemical Looping Process. <i>Energy & Fuels</i> , 2020, 34, 6178-6185. | 5.1 | 26 |
| 34 | A high-performance oxygen carrier with high oxygen transport capacity and redox stability for chemical looping combustion. <i>Energy Conversion and Management</i> , 2019, 202, 112209. | 9.2 | 25 |
| 35 | Spinel-Structured Ternary Ferrites as Effective Agents for Chemical Looping CO ₂ Splitting. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6924-6930. | 3.7 | 24 |
| 36 | Chemical Looping Combustion (CLC) of two Victorian brown coals – Part 2: Assessment of interaction between CuO and minerals inherent in coals during multi cycle experiments. <i>Fuel</i> , 2012, 96, 335-347. | 6.4 | 22 |

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|----|---|-----|-----------|
| 37 | Phase segregation mechanism of NiFe_2O_4 oxygen carrier in chemical looping process. <i>International Journal of Energy Research</i> , 2021, 45, 3305-3314. | 4.5 | 22 |
| 38 | Ternary Mixed Spinel Oxides as Oxygen Carriers for Chemical Looping Hydrogen Production Operating at 550 °C. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44223-44232. | 8.0 | 21 |
| 39 | Test Operation of a Separated-Gasification Chemical Looping Combustion System for Coal. <i>Energy & Fuels</i> , 2018, 32, 11411-11420. | 5.1 | 20 |
| 40 | Geochemical dynamics of the gas hydrate system in the Qilian Mountain Permafrost, Qinghai, Northwest China. <i>Marine and Petroleum Geology</i> , 2015, 59, 72-90. | 3.3 | 19 |
| 41 | Effect of Supports on the Redox Performance of NiFe_2O_4 in a Chemical Looping Process. <i>Energy Technology</i> , 2019, 7, 1900374. | 3.8 | 19 |
| 42 | Performance of Oxygen Carriers with Different Porosities in Chemical Looping Water-Splitting. <i>Energy Technology</i> , 2018, 6, 1723-1731. | 3.8 | 18 |
| 43 | Comparison of pyrite cinder with synthetic and natural iron-based oxygen carriers in coal-fueled chemical-looping combustion. , 2018, 8, 106-119. | | 16 |
| 44 | Cu-Fe-Al-O mixed spinel oxides as oxygen carrier for chemical looping hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11908-11915. | 7.1 | 16 |
| 45 | Simultaneous removal of Zn^{2+} and p-nitrophenol from wastewater using nanocomposites of montmorillonite with alkyl-ammonium and complexant. <i>Environmental Research</i> , 2021, 201, 111496. | 7.5 | 16 |
| 46 | Efficient hydrogen production through the chemical looping redox cycle of YSZ supported iron oxides. <i>Green Energy and Environment</i> , 2021, 6, 875-883. | 8.7 | 15 |
| 47 | Effect of permafrost properties on gas hydrate petroleum system in the Qilian Mountains, Qinghai, Northwest China. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2711-2720. | 3.5 | 14 |
| 48 | A mixed spinel oxygen carrier with both high reduction degree and redox stability for chemical looping H_2 production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1444-1452. | 7.1 | 14 |
| 49 | Earth abundant spinel for hydrogen production in a chemical looping scheme at 550 °C. <i>Green Energy and Environment</i> , 2021, 6, 780-789. | 8.7 | 13 |
| 50 | Evaluating tar production via the release of volatile matters for H_2 -rich syngas production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 3712-3720. | 7.1 | 12 |
| 51 | The use of ferrites as highly active oxygen storage materials for chemical looping hydrogen production under intermediate temperature. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28638-28648. | 7.1 | 11 |
| 52 | Performance of iron ore oxygen carrier modified by biomass ashes in coal-fueled chemical looping combustion. , 2016, 6, 695-709. | | 10 |
| 53 | Effect of calcination condition on the performance of iron ore in chemical-looping combustion. <i>Fuel Processing Technology</i> , 2020, 203, 106395. | 7.2 | 10 |
| 54 | Evaluation of pyrite cinders from sulfuric acid production as oxygen carrier for chemical looping combustion. <i>Energy</i> , 2021, 233, 121079. | 8.8 | 10 |

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|----|--|-----|-----------|
| 55 | A high-performance ternary ferrite-spinel material for hydrogen storage via chemical looping redox cycles. International Journal of Hydrogen Energy, 2020, 45, 2034-2043. | 7.1 | 9 |
| 56 | Chemical looping hydrogen storage and production: use of binary ferrite-spinel as oxygen carrier materials. Sustainable Energy and Fuels, 2020, 4, 1665-1673. | 4.9 | 9 |
| 57 | Anonymous authentication-oriented vehicular privacy protection technology research in VANET. , 2011, , . | | 8 |
| 58 | Effect of supports on the redox performance of pyrite cinder in chemical looping combustion. Chinese Journal of Chemical Engineering, 2021, 37, 168-174. | 3.5 | 6 |
| 59 | Synthesis and Characterization of a Dual-Cation Organomontmorillonite Nanocomposite. Materials, 2018, 11, 2320. | 2.9 | 4 |
| 60 | Modification of traditionally impregnated $\text{Fe}_2\text{O}_3/\text{Al}_2\text{O}_3$ oxygen carriers by ultrasonic method and their performance in chemical looping combustion. , 2017, 7, 65-77. | | 3 |
| 61 | Bio-Oil Heavy Fraction as a Feedstock for Hydrogen Generation via Chemical Looping Process: Reactor Design and Hydrodynamic Analysis. International Journal of Chemical Reactor Engineering, 2017, 15, . | 1.1 | 2 |
| 62 | Carbon Isotopic Evidence for Gas Hydrate Release and Its Significance on Seasonal Wetland Methane Emission in the Muli Permafrost of the Qinghai-Tibet Plateau. International Journal of Environmental Research and Public Health, 2022, 19, 2437. | 2.6 | 2 |