Wenting Hu

List of Publications by Year
in descending order

20 papers	567 citations	759055 12 h-index	839398 18 g-index
20 all docs	20 docs citations	20 times ranked	634 citing authors

#	Article	IF	Citations
1	Inhibiting the interaction between FeO and Al₂O₃ during chemical looping production of hydrogen. RSC Advances, 2015, 5, 1759-1771.	1.7	72
2	Large scale in silico screening of materials for carbon capture through chemical looping. Energy and Environmental Science, 2017, 10, 818-831.	15.6	67
3	The use of strontium ferrite in chemical looping systems. Applied Energy, 2018, 223, 369-382.	5.1	65
4	The interaction between CuO and Al₂O₃ and the reactivity of copper aluminates below 1000ÂÂ°C and their implication on the use of the Cuâ€“Alâ€“O system for oxygen storage and production. RSC Advances, 2016, 6, 113016-113024.	1.7	55
5	Overcoming chemical equilibrium limitations using a thermodynamically reversible chemical reactor. Nature Chemistry, 2019, 11, 638-643.	6.6	53
6	Kinetics of oxygen uncoupling of a copper based oxygen carrier. Applied Energy, 2016, 161, 92-100.	5.1	50
7	Simultaneous Separation of Inorganic Cations and Anions by Ion Chromatography Using a Single Column Coated with Weak/Strong-Charged Zwitterionic Bile Salt Micelles. Analytical Chemistry, 1994, 66, 765-767.	3.2	33
8	Phase interactions in Ni-Cu-Al2O3 mixed oxide oxygen carriers for chemical looping applications. Applied Energy, 2019, 236, 635-647.	5.1	33
9	Exploration of the material property space for chemical looping air separation applied to carbon capture and storage. Applied Energy, 2018, 212, 478-488.	5.1	26
10	Characteristics of Copper-based Oxygen Carriers Supported on Calcium Aluminates for Chemical-Looping Combustion with Oxygen Uncoupling (CLOU). Industrial & Engineering Chemistry Research, 2015, 54, 6713-6723.	1.8	22
11	Production of high purity H2 through chemical-looping waterâ€“gas shift at reforming temperatures â€“ The importance of non-stoichiometric oxygen carriers. Chemical Engineering Journal, 2021, 423, 130174.	6.6	16
12	Dendritic silver self-assembly in molten-carbonate membranes for efficient carbon dioxide capture. Energy and Environmental Science, 2020, 13, 1766-1775.	15.6	15
13	H2 production from partial oxidation of CH4 by Fe2O3-supported Ni-based catalysts in a plasma-assisted packed bed reactor. Proceedings of the Combustion Institute, 2019, 37, 5481-5488.	2.4	13
14	Pyrolysis of wood pellets in the presence of oxygen carriers in a fluidised bed coupled with a DBD reactor for tar quantification. Chemical Engineering Journal, 2019, 355, 858-870.	6.6	13
15	The combustion of solid paraffin wax and of liquid glycerol in a fluidised bed. Fuel, 2017, 199, 447-455.	3.4	11
16	A thermogravimetric method for the measurement of CO/CO2 ratio at the surface of carbon during combustion. Proceedings of the Combustion Institute, 2019, 37, 2987-2993.	2.4	9
17	Revisiting the thermal and chemical expansion and stability of La0.6Sr0.4FeO3â^'. Journal of Solid State Chemistry, 2021, 293, 121838.	1.4	7
18	Impact of Gasâ€“Solid Reaction Thermodynamics on the Performance of a Chemical Looping Ammonia Synthesis Process. Energy & Fuels, 0, , .	2.5	4

#	Article	IF	Citations
19	Use of a Chemicalâ€Looping Reaction to Determine the Residence Time Distribution of Solids in a Circulating Fluidized Bed. Energy Technology, 2016, 4, 1230-1236.	1.8	2
20	An investigation into the stability and use of non-stoichiometric YBaCo4O7+Î´ for oxygen enrichment processes. Solid State Ionics, 2018, 320, 292-296.	1.3	1