

Chemical-looping combustion (CLC) for inherent CO_2 separations – a review

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The reaction path of CO and Fe ₂ O ₃ in a chemical-looping combustion system. , 2009, , .		0
2	Progress and New Developments in Carbon Capture and Storage. Critical Reviews in Plant Sciences, 2009, 28, 123-138.	2.7	97
3	Experimental research on gas-solid flow in a dual fluidized bed. , 2009, , .		1
4	The optimized geometric structure of the (0001) surface of α -Fe ₂ O ₃ . , 2009, , .		0
5	Advancements in Development of Chemical-Looping Combustion: A Review. International Journal of Chemical Engineering, 2009, 2009, 1-16.	1.4	106
6	A novel dual circulating fluidized bed system for chemical looping processes. AIChE Journal, 2009, 55, 3255-3266.	1.8	160
7	Syngas combustion in a chemical-looping combustion system using an impregnated Ni-based oxygen carrier. Fuel, 2009, 88, 2357-2364.	3.4	96
8	Solid fuels in chemical-looping combustion using oxide scale and unprocessed iron ore as oxygen carriers. Fuel, 2009, 88, 1945-1954.	3.4	150
9	Nickel on lanthanum-modified γ -Al ₂ O ₃ oxygen carrier for CLC: Reactivity and stability. Catalysis Today, 2009, 143, 179-186.	2.2	58
10	Solid fuels in chemical-looping combustion using a NiO-based oxygen carrier. Chemical Engineering Research and Design, 2009, 87, 1543-1550.	2.7	69
11	Modeling of the chemical-looping combustion of methane using a Cu-based oxygen carrier. Energy Procedia, 2009, 1, 391-398.	1.8	10
12	Using chemical-looping with oxygen uncoupling (CLOU) for combustion of six different solid fuels. Energy Procedia, 2009, 1, 447-453.	1.8	128
13	Carbonation and Hydration Characteristics of Dry Potassium-Based Sorbents for CO ₂ Capture. Energy & Fuels, 2009, 23, 1766-1769.	2.5	89
14	Synthesis Gas Generation by Chemical-Looping Reforming Using Ce-Based Oxygen Carriers Modified with Fe, Cu, and Mn Oxides. Energy & Fuels, 2009, 23, 2095-2102.	2.5	124
15	Effect of crystal structure on CO ₂ capture characteristics of dry potassium-based sorbents. Chemosphere, 2009, 75, 1401-1404.	4.2	53
16	CO ₂ Absorption Using Dry Potassium-Based Sorbents with Different Supports. Energy & Fuels, 2009, 23, 4683-4687.	2.5	113
17	Effect of fuel particle size on reaction rate in chemical looping combustion. Chemical Engineering Science, 2010, 65, 5841-5851.	1.9	13
18	On the evaluation of synthetic and natural ilmenite using syngas as fuel in chemical-looping combustion (CLC). Chemical Engineering Research and Design, 2010, 88, 1505-1514.	2.7	95

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20	Off-design performance of a chemical looping combustion (CLC) combined cycle: effects of ambient temperature. Journal of Thermal Science, 2010, 19, 87-96.	0.9	9
22	Syngas and a separate nitrogen/argon stream via chemical looping reforming – A 140kW pilot plant study. Fuel, 2010, 89, 1249-1256.	3.4	130
23	Reactivity of a NiO/Al ₂ O ₃ oxygen carrier prepared by impregnation for chemical-looping combustion. Fuel, 2010, 89, 3399-3409.	3.4	88
24	Investigation of NiO/NiAl ₂ O ₄ oxygen carriers for chemical-looping combustion produced by spray-drying. International Journal of Greenhouse Gas Control, 2010, 4, 23-35.	2.3	61
25	Study on CO ₂ capture using dry potassium-based sorbents through orthogonal test method. International Journal of Greenhouse Gas Control, 2010, 4, 655-658.	2.3	43
26	Reduction of CaSO ₄ oxygen carrier with coal in chemical-looping combustion: Effects of temperature and gasification intermediate. International Journal of Greenhouse Gas Control, 2010, 4, 716-728.	2.3	51
27	Oxy-fuel combustion of solid fuels. Progress in Energy and Combustion Science, 2010, 36, 581-625.	15.8	940
28	Multiscale process intensification for catalytic partial oxidation of methane: From nanostructured catalysts to integrated reactor concepts. Catalysis Today, 2010, 157, 24-32.	2.2	20
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36	Chemical-looping combustion systems and technology for carbon dioxide (CO ₂) capture in power plants. , 2010, , 358-379.		0
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39	Hydrogen Production via Chemical Looping Steam Reforming in a Periodically Operated Fixed-Bed Reactor. Industrial & Engineering Chemistry Research, 2010, 49, 11037-11044.	1.8	81

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41	Development of Iron Oxide Carriers for Chemical Looping Combustion Using Sol-Gel. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5383-5391.	1.8	82
42	Ilmenite Activation during Consecutive Redox Cycles in Chemical-Looping Combustion. <i>Energy & Fuels</i> , 2010, 24, 1402-1413.	2.5	277
44	Experimental Investigation of a CuO/Al ₂ O ₃ Oxygen Carrier for Chemical-Looping Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9720-9728.	1.8	44
45	Reduction Kinetics of La Modified NiO/La- γ -Al ₂ O ₃ Oxygen Carrier for Chemical-Looping Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11009-11017.	1.8	29
46	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.	2.5	73
47	CO ₂ Carrying Behavior of Calcium Aluminate Pellets under High-Temperature/High-CO ₂ Concentration Calcination Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6916-6922.	1.8	78
48	Operando Raman Spectroscopy for Determining the Active Phase in One-Dimensional Mn _{1-x} Ce _x O ₂ Nanorod Catalysts during Methane Combustion. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1648-1654.	2.1	56
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55	Process configuration options for handling incomplete fuel conversion in CO ₂ capture: Case study on natural gas-fired CLC. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 805-815.	2.3	2
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57	Core-in-Shell CaO/CuO-Based Composite for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 12384-12391.	1.8	65
58	Mesoporous Alumina-Supported Amines as Potential Steam-Stable Adsorbents for Capturing CO ₂ from Simulated Flue Gas and Ambient Air. <i>Energy & Fuels</i> , 2011, 25, 5528-5537.	2.5	252

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79	Spinel mixed oxides as oxygen carriers for chemical looping combustion. <i>Energy Procedia</i> , 2011, 4, 318-323.	1.8	27
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