Tobias Mattisson

List of Articles by Year in descending order

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212 peer-reviewed articles	15,332 peer-reviewed citations	15157 65 peer-reviewed h-index	150242 5.68 score
217 documents	16730 doc citations	18298 67 h-index	4756 citing authors

#	Article	IF	Citations
1	Impact of random packing on residence time distribution of particles in bubbling fluidized beds: Part 1—cross-current flow reactors. Chemical Engineering Science, 2025, 302, 120724.	3.8	3
2	Interaction of Swine Manure Ash-Oxygen Carrier Particles under Chemical Looping Conditions. Energy & Fuels, 2025, 39, 2602-2615.	4.3	1
3	Potassium interactions with copper slag and magnetite fines in chemical-looping processes. Fuel Processing Technology, 2025, 270, 108192.	5.8	4
4	Oxy-polishing of gas from chemical looping combustion: Fuel-nitrogen transformation and model-aided gas purity optimization. Chemical Engineering Journal, 2025, 509, 161267.	8.6	6
5	First-Principles Estimation of Thermodynamic Properties and Phase Stability of CaMnO3−δ for Chemical-Looping Combustion. Energy & Fuels, 2025, 39, 9113-9120.	4.3	4
6	Performance of magnetite fines for continuous hydrogen production. International Journal of Hydrogen Energy, 2025, 139, 753-765.	6.6	1
7	Evaluation of ilmenite, manganese ore, LD slag and iron sand oxygen carriers for chemical looping gasification with microalgae. Fuel Processing Technology, 2025, 275, 108266.	5.8	4
8	Impact of random packing on residence time distribution of particles in bubbling fluidized beds: Part 2 - Counter-current flow reactors. Powder Technology, 2025, 465, 121306.	3.7	2
9	Alkali desorption from ilmenite oxygen carrier particles used in biomass combustion. Fuel, 2024, 359, 130400.	5.8	14
10	Gaseous alkali interactions with ilmenite, manganese oxide and calcium manganite under chemical looping combustion conditions. Fuel Processing Technology, 2024, 254, 108029.	5.8	9
11	Effect of oxidation degree of iron-based oxygen carriers on their mechanical strength. Powder Technology, 2024, 438, 119598.	3.7	5
12	Thermodynamic analysis on the fate of ash elements in chemical looping combustion of solid fuels – Manganese-Based oxygen carriers. Fuel, 2024, 369, 131676.	5.8	11
13	Use of a high-entropy oxide as an oxygen carrier for chemical looping. Energy, 2024, 298, 131307.	6.7	17
14	Experimental investigation and modeling of the impact of random packings on mass transfer in fluidized beds. Powder Technology, 2024, 440, 119781.	3.7	4
15	CFD modeling of a fluidized bed with volatiles distributor for biomass chemical looping combustion. Chemical Engineering Science, 2024, 295, 120211.	3.8	8
16	Effect of the Conversion Degree on the Apparent Kinetics of Iron-Based Oxygen Carriers. Energy & Fuels, 2024, 38, 11824-11836.	4.3	9
17	Numerical evaluation and optimization of volatiles distributors with different configurations for biomass chemical looping combustion. Chemical Engineering Journal, 2024, 495, 153611.	8.6	4
18	Thermodynamic Modeling and Experimental Investigation of the System Fe–Ti–O-K for Ilmenite Used as Fluidized Bed Oxygen Carrier. Energy & Fuels, 2024, 38, 14569-14576.	4.3	5

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19	Performance of a perovskite-structured calcium manganite oxygen carrier produced from natural ores in a batch reactor and in operation of a chemical-looping combustion reactor system. Chemical Engineering Journal, 2024, 497, 154516.	8.6	5
20	Noncalcined Manganese Ores as Oxygen Carriers for Chemical Looping Combustion with Oxygen Uncoupling in a Circulating Fluidized Bed Reactor System. Energy & Fuels, 2024, 38, 16657-16677.	4.3	10
21	Interaction Between Alkali Chlorides and Ilmenite in Chemical Looping Combustion. Energy & Fuels, 2024, 38, 17978-17994.	4.3	7
22	Tar characteristics generated from a 10 kWth chemical-looping biomass gasifier using steel converter slag as an oxygen carrier. Fuel, 2023, 331, 125770.	5.8	20
23	Production of aviation fuel with negative emissions via chemical looping gasification of biogenic residues: Full chain process modelling and techno-economic analysis. Fuel Processing Technology, 2023, 241, 107585.	5.8	25
24	Development of new Mn-based oxygen carriers using MgO and SiO2 as supports for Chemical Looping with Oxygen Uncoupling (CLOU). Fuel, 2023, 337, 127177.	5.8	12
25	Performance of iron sand as an oxygen carrier at high reduction degrees and its potential use for chemical looping gasification. Fuel, 2023, 339, 127310.	5.8	17
26	Study of the interaction between a Mn ore and alkali chlorides in chemical looping combustion. Fuel, 2023, 344, 128090.	5.8	24
27	Investigating the Interaction between Ilmenite and Zinc for Chemical Looping. Energy & Fuels, 2023, 37, 7856-7870.	4.3	7
28	Improving bio aviation fuel yield from biogenic carbon sources through electrolysis assisted chemical looping gasification. Fuel, 2023, 348, 128525.	5.8	7
29	Investigation of LD-slag as oxygen carrier for CLC in a 10 kW unit using high-volatile biomasses. International Journal of Greenhouse Gas Control, 2023, 127, 103940.	4.0	7
30	Catalytic Activity of Oxygen Carriers on the Removal of Tar Byproducts for Biomass Chemical Looping Gasification Application. Energy & Fuels, 2023, 37, 16629-16638.	4.3	9
31	Design and first application of a novel laboratory reactor for alkali studies in chemical looping applications. Fuel Processing Technology, 2023, 252, 107988.	5.8	3
32	Fate of trace elements in Oxygen Carrier Aided Combustion (OCAC) of municipal solid waste. Fuel, 2022, 311, 122551.	5.8	18
33	Modelling of gas conversion with an analytical reactor model for biomass chemical looping combustion (bio-CLC) of solid fuels. Chemical Engineering Journal, 2022, 433, 133563.	8.6	22
34	Alkali interactions with a calcium manganite oxygen carrier used in chemical looping combustion. Fuel Processing Technology, 2022, 227, 107099.	5.8	24
35	Thermochemical conversion of biomass volatiles via chemical looping: Comparison of ilmenite and steel converter waste materials as oxygen carriers. Fuel, 2022, 313, 122638.	5.8	44
36	Investigation on the Performance of Volatile Distributors with Different Configurations under Different Fluidization Regimes. Energy & Fuels, 2022, 36, 9571-9587.	4.3	7

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37	Chemical Looping Combustion in a Packed Fluidized Bed Reactor—Fundamental Modeling and Batch Experiments with Random Metal Packings. Energy & Fuels, 2022, 36, 9538-9550.	4.3	9
38	Oxygen Carrier and Alkali Interaction in Chemical Looping Combustion: Case Study Using a Braunite Mn Ore and Charcoal Impregnated with K2CO3 or Na2CO3. Energy & Fuels, 2022, 36, 9470-9484.	4.3	26
39	Effect of the Mass Conversion Degree of an Oxygen Carrier on Char Conversion and Its Implication for Chemical Looping Gasification. Energy & Fuels, 2022, 36, 9768-9779.	4.3	11
40	Process Analysis of Chemical Looping Gasification of Biomass for Fischer–Tropsch Crude Production with Net-Negative CO2 Emissions: Part 1. Energy & Fuels, 2022, 36, 9687-9705.	4.3	41
41	Techno-Economic Assessment of Chemical Looping Gasification of Biomass for Fischer–Tropsch Crude Production with Net-Negative CO2 Emissions: Part 2. Energy & Fuels, 2022, 36, 9706-9718.	4.3	15
42	Thermodynamic Analysis on the Fate of Ash Elements in Chemical Looping Combustion of Solid Fuels—Iron-Based Oxygen Carriers. Energy & Fuels, 2022, 36, 9648-9659.	4.3	38
43	Steel Converter Slag as an Oxygen Carrier—Interaction with Sulfur Dioxide. Energies, 2022, 15, 5922.	2.3	14
44	Performance of a volatiles distributor equipped with internal baffles under different fluidization regimes. Powder Technology, 2022, 409, 117807.	3.7	6
45	Experimental evaluation of manganese ores for chemical looping conversion of synthetic biomass volatiles in a 300 W reactor system. Journal of Environmental Chemical Engineering, 2021, 9, 105112.	4.7	30
46	Oxygen carrier aided combustion (OCAC) of two waste fuels - Experimental and theoretical study of the interaction between ilmenite and zinc, copper and lead. Biomass and Bioenergy, 2021, 148, 106060.	4.8	28
47	Reactivity and lifetime assessment of an oxygen releasable manganese ore with biomass fuels in a 10 kWth pilot rig for chemical looping combustion. Fuel Processing Technology, 2021, 215, 106743.	5.8	59
48	Alkali-wall interactions in a laboratory-scale reactor for chemical looping combustion studies. Fuel Processing Technology, 2021, 217, 106828.	5.8	26
49	Techno-economic analysis of processes with integration of fluidized bed heat exchangers for H2 production – Part 2: Chemical-looping combustion. International Journal of Hydrogen Energy, 2021, 46, 25355-25375.	6.6	22
50	Study of defluidization of iron- and manganese-based oxygen carriers under highly reducing conditions in a lab-scale fluidized-bed batch reactor. Fuel Processing Technology, 2021, 219, 106874.	5.8	25
51	Effect of the Presence of Siloxanes in Biogas Chemical Looping Combustion. Energy & Fuels, 2021, 35, 14984-14994.	4.3	19
52	An experimental study of a volatiles distributor for solid fuels chemical-looping combustion process. Fuel Processing Technology, 2021, 220, 106898.	5.8	14
53	Fate of lead, copper, zinc and antimony during chemical looping gasification of automotive shredder residue. Fuel, 2021, 302, 121147.	5.8	13
54	Experimental Investigation of Oxygen Carrier Aided Combustion (OCAC) with Methane and PSA Off-Gas. Applied Sciences (Switzerland), 2021, 11, 210.	1.6	9

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55	Interaction of oxygen carriers with common biomass ash components. Fuel Processing Technology, 2020, 200, 106313.	5.8	49
56	Steel converter slag as an oxygen carrier for chemical-looping gasification. Fuel Processing Technology, 2020, 210, 106576.	5.8	69
57	Oxygen-Carrier Development of Calcium Manganite–Based Materials with Perovskite Structure for Chemical-Looping Combustion of Methane. Energy Technology, 2020, 8, .	2.4	28
58	Techno-economic analysis of H2 production processes using fluidized bed heat exchangers with steam reforming – Part 1: Oxygen carrier aided combustion. International Journal of Hydrogen Energy, 2020, 45, 6059-6081.	6.6	31
59	Applying machine learning algorithms in estimating the performance of heterogeneous, multi-component materials as oxygen carriers for chemical-looping processes. Chemical Engineering Journal, 2020, 387, 124072.	8.6	80
60	Steel converter slag as an oxygen carrier in a 12 MWth CFB boiler – Ash interaction and material evolution. International Journal of Greenhouse Gas Control, 2019, 88, 321-331.	4.0	68
61	Chemical-looping combustion in a 100 kW unit using a mixture of synthetic and natural oxygen carriers – Operational results and fate of biomass fuel alkali. International Journal of Greenhouse Gas Control, 2019, 88, 371-382.	4.0	71
62	Combined manganese oxides as oxygen carriers for biomass combustion — Ash interactions. Chemical Engineering Research and Design, 2019, 149, 104-120.	5.0	44
63	11,000 h of chemical-looping combustion operation—Where are we and where do we want to go?. International Journal of Greenhouse Gas Control, 2019, 88, 38-56.	4.0	217
64	Influence of heat treatment on manganese ores as oxygen carriers. International Journal of Greenhouse Gas Control, 2019, 87, 238-245.	4.0	8
65	Improved Gas–Solids Mass Transfer in Fluidized Beds: Confined Fluidization in Chemical-Looping Combustion. Energy & Fuels, 2019, 33, 4442-4453.	4.3	11
66	Chemical-looping combustion of synthetic biomass-volatiles with manganese-ore oxygen carriers. International Journal of Greenhouse Gas Control, 2018, 71, 239-252.	4.0	37
67	Synthesis and upscaling of perovskite Mn-based oxygen carrier by industrial spray drying route. International Journal of Greenhouse Gas Control, 2018, 70, 68-75.	4.0	35
68	Chemical-looping technologies using circulating fluidized bed systems: Status of development. Fuel Processing Technology, 2018, 172, 1-12.	5.8	227
69	Chemical Looping Tar reforming with Fe,Sr-doped La2Zr2O7 pyrochlore supported on ZrO2. Applied Catalysis A: General, 2018, 550, 105-112.	3.6	18
70	Oxygen release from manganese ores relevant for chemical looping with oxygen uncoupling conditions. Fuel, 2018, 232, 693-703.	5.8	31
71	Exploring novel hydrogen production processes by integration of steam methane reforming with chemical-looping combustion (CLC-SMR) and oxygen carrier aided combustion (OCAC-SMR). International Journal of Greenhouse Gas Control, 2018, 74, 28-39.	4.0	55
72	Manganese ores as oxygen carriers for chemical-looping combustion (CLC) and chemical-looping with oxygen uncoupling (CLOU). Journal of Environmental Chemical Engineering, 2017, 5, 2552-2563.	4.7	58

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73	The EU-FP7 Project SUCCESS – Scale-up of Oxygen Carrier for Chemical Looping Combustion using Environmentally Sustainable Materials. Energy Procedia, 2017, 114, 395-406.	2.1	22
74	Chemical-looping combustion with heavy liquid fuels in a 10 kW pilot plant. Fuel Processing Technology, 2017, 156, 124-137.	5.8	51
75	Use of CuO/MgAl2O4 and La0.8Sr0.2FeO3/γ-Al2O3 in chemical looping reforming system for tar removal from gasification gas. AIChE Journal, 2016, 62, 38-45.	3.3	30
76	Effect of Production Parameters on the Spray-Dried Calcium Manganite Oxygen Carriers for Chemical-Looping Combustion. Energy & Fuels, 2016, 30, 3257-3268.	4.3	21
77	Investigation of a calcium manganite as oxygen carrier during 99 h of operation of chemical-looping combustion in a 10 kW th reactor unit. International Journal of Greenhouse Gas Control, 2016, 53, 222-229.	4.0	52
78	Enhanced performance of manganese ore as oxygen carrier for chemical-looping with oxygen uncoupling (CLOU) by combination with Ca(OH)2 through spray-drying. Journal of Environmental Chemical Engineering, 2016, 4, 3707-3717.	4.7	12
79	Cu-impregnated alumina/silica bed materials for Chemical Looping Reforming of biomass gasification gas. Fuel, 2016, 180, 448-456.	5.8	40
80	Development of CaMn0.775Mg0.1Ti0.125O3-δ oxygen carriers produced from different Mn and Ti sources. Materials and Design, 2016, 89, 527-542.	5.4	27
81	Chemical looping tar reforming using La/Sr/Fe-containing mixed oxides supported on ZrO2. Applied Catalysis B: Environmental, 2016, 183, 298-307.	14.8	59
82	Experimental investigation of binary and ternary combined manganese oxides for chemical-looping with oxygen uncoupling (CLOU). Fuel, 2016, 164, 228-236.	5.8	32
83	Screening of Combined Mn-Fe-Si Oxygen Carriers for Chemical Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2015, 29, 1868-1880.	4.3	23
84	Screening of different manganese ores for chemical-looping combustion (CLC) and chemical-looping with oxygen uncoupling (CLOU). International Journal of Greenhouse Gas Control, 2015, 43, 179-188.	4.0	80
85	Comprehensive study of Mn–Fe–Al oxygen-carriers for chemical-looping with oxygen uncoupling (CLOU). International Journal of Greenhouse Gas Control, 2015, 34, 12-24.	4.0	34
86	Chemical-looping combustion using combined iron/manganese/silicon oxygen carriers. Applied Energy, 2015, 157, 330-337.	8.9	30
87	Screening of supported and unsupported Mn–Si oxygen carriers for CLOU (chemical-looping with oxygen uncoupling). Energy, 2015, 93, 544-554.	6.7	33
88	CaMnO3-δ Made from Low Cost Material Examined as Oxygen Carrier in Chemical-looping Combustion. Energy Procedia, 2014, 63, 80-86.	2.1	32
89	Sulfur Tolerance and Rate of Oxygen Release of Combined Mn–Si Oxygen Carriers in Chemical-Looping with Oxygen Uncoupling (CLOU). Industrial & Engineering Chemistry Research, 2014, 53, 19488-19497.	2.9	14
90	Measuring attrition resistance of oxygen carrier particles for chemical looping combustion with a customized jet cup. Powder Technology, 2014, 256, 75-86.	3.7	170

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91	Interaction of mineral matter of coal with oxygen carriers in chemical-looping combustion (CLC). Chemical Engineering Research and Design, 2014, 92, 1753-1770.	5.0	56
92	Investigation of different manganese ores as oxygen carriers in chemical-looping combustion (CLC) for solid fuels. Applied Energy, 2014, 113, 1883-1894.	8.9	142
93	Mn–Fe Oxides with Support of MgAl2O4, CeO2, ZrO2 and Y2O3–ZrO2 for Chemical-Looping Combustion and Chemical-Looping with Oxygen Uncoupling. Industrial & Engineering Chemistry Research, 2014, 53, 10358-10365.	2.9	45
94	CaZrO3 and SrZrO3-based CuO Oxygen Carriers for Chemical-looping with Oxygen Uncoupling (CLOU). Energy Procedia, 2014, 51, 75-84.	2.1	10
95	(Fe1-xMnx)TiyO3 based Oxygen Carriers for Chemical-looping Combustion and Chemical-looping with Oxygen Uncoupling. Energy Procedia, 2014, 51, 85-98.	2.1	21
96	CuO-Based Oxygen-Carrier Particles for Chemical-Looping with Oxygen Uncoupling – Experiments in Batch Reactor and in Continuous Operation. Industrial & Engineering Chemistry Research, 2014, 53, 6255-6267.	2.9	64
97	Sulfur Tolerance of CaxMn1−yMyO3−δ (M = Mg, Ti) Perovskite-Type Oxygen Carriers in Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2014, 28, 1312-1324.	4.3	45
98	Chemical-Looping Combustion with Fuel Oil in a 10 kW Pilot Plant. Energy & Fuels, 2014, 28, 5978-5987.	4.3	44
99	Investigation of Natural and Synthetic Bed Materials for Their Utilization in Chemical Looping Reforming for Tar Elimination in Biomass-Derived Gasification Gas. Energy & Fuels, 2014, 28, 3833-3840.	4.3	60
100	Examination of oxygen uncoupling behaviour and reactivity towards methane for manganese silicate oxygen carriers in chemical-looping combustion. International Journal of Greenhouse Gas Control, 2014, 29, 70-81.	4.0	45
101	The use of ilmenite as oxygen carrier with kerosene in a 300 W CLC laboratory reactor with continuous circulation. Applied Energy, 2014, 113, 1846-1854.	8.9	66
102	Combined oxides as oxygen-carrier material for chemical-looping with oxygen uncoupling. Applied Energy, 2014, 113, 1924-1932.	8.9	246
103	Investigation of Manganese–Iron Oxide Materials based on Manganese Ores as Oxygen Carriers for Chemical Looping with Oxygen Uncoupling (CLOU). Energy Technology, 2014, 2, 469-479.	2.4	18
104	Combined oxides of iron, manganese and silica as oxygen carriers for chemical-looping combustion. Fuel Processing Technology, 2014, 124, 87-96.	5.8	29
105	Innovative Oxygen Carriers Uplifting Chemical-looping Combustion. Energy Procedia, 2014, 63, 113-130.	2.1	51
106	Operation with Combined Oxides of Manganese and Silica as Oxygen Carriers in a 300 Wth Chemical-looping Combustion Unit. Energy Procedia, 2014, 63, 131-139.	2.1	5
107	(MnzFe1−z)yOx combined oxides as oxygen carrier for chemical-looping with oxygen uncoupling. AICHE Journal, 2013, 59, 582-588.	3.3	78
108	ZrO2-Supported CuO Oxygen Carriers for Chemical-Looping with Oxygen Uncoupling (CLOU). Energy Procedia, 2013, 37, 550-559.	2.1	15

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109	The Effect of Bituminous and Lignite Ash on the Performance of Ilmenite as Oxygen Carrier in Chemical-Looping Combustion. Chemical Engineering and Technology, 2013, 36, 1460-1468.	1.3	53
110	Examining the Cu-Mn-O Spinel System as an Oxygen Carrier in Chemical Looping Combustion. Energy Technology, 2013, 1, 59-69.	2.4	7
111	Chemical-Looping Combustion with Liquid Fuels. Energy Procedia, 2013, 37, 654-661.	2.1	28
112	Innovative Oxygen Carrier Materials for Chemical-Looping Combustion. Energy Procedia, 2013, 37, 645-653.	2.1	32
113	CaMn0.9Mg0.1O3-δ as Oxygen Carrier in a Gas-Fired 10 kWthChemical-Looping Combustion Unit. Industrial & Engineering Chemistry Research, 2013, 52, 6923-6932.	2.9	103
114	On the high-gasification rate of Brazilian manganese ore in chemical-looping combustion (CLC) for solid fuels. AICHE Journal, 2013, 59, 4346-4354.	3.3	27
115	Combined Cu/Mn Oxides as an Oxygen Carrier in Chemical Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2013, 27, 6031-6039.	4.3	44
116	Chemical Looping Combustion and Chemical Looping with Oxygen Uncoupling Experiments in a Batch Reactor Using Spray-Dried CaMn1−xMxO3−δ (M = Ti, Fe, Mg) Particles as Oxygen Carriers. Energy & Fuels, 2013, 27, 1473-1481.	4.3	114
117	CaxLa1−xMn1−yMyO3−δ (M = Mg, Ti, Fe, or Cu) as Oxygen Carriers for Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2013, 27, 4097-4107.	4.3	59
118	Investigation of Different Mn−Fe Oxides as Oxygen Carrier for Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2013, 27, 367-377.	4.3	128
119	Investigation of Combined Supports for Cu-Based Oxygen Carriers for Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2013, 27, 3918-3927.	4.3	73
120	CaMn0.875Ti0.125O3−δ as an Oxygen Carrier for Chemical-Looping with Oxygen Uncoupling (CLOU)—Solid-Fuel Testing and Sulfur Interaction. Energy Technology, 2013, 1, 338-344.	2.4	23
121	Mechanisms of Solid Fuel Conversion by Chemical-Looping Combustion (CLC) using Manganese Ore: Catalytic Gasification by Potassium Compounds. Energy Technology, 2013, 1, 273-282.	2.4	44
122	Materials for Chemical-Looping with Oxygen Uncoupling. ISRN Chemical Engineering, 2013, 2013, 1-19.	3.0	122
123	Evaluation of Novel Ceria-Supported Metal Oxides As Oxygen Carriers for Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2012, 51, 12796-12806.	2.9	56
124	Evaluation of CuAl2O4 as an Oxygen Carrier in Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2012, 51, 13924-13934.	2.9	81
125	Oxygen Release and Oxidation Rates of MgAl2O4-Supported CuO Oxygen Carrier for Chemical-Looping Combustion with Oxygen Uncoupling (CLOU). Energy & Fuels, 2012, 26, 6528-6539.	4.3	78
126	Use of manganese ore in chemical-looping combustion (CLC)—Effect on steam gasification. International Journal of Greenhouse Gas Control, 2012, 8, 56-60.	4.0	54

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127	Chemical-looping combustion and chemical-looping reforming of kerosene in a circulating fluidized-bed 300W laboratory reactor. International Journal of Greenhouse Gas Control, 2012, 9, 1-9.	4.0	69
128	Chemical-looping combustion and chemical-looping with oxygen uncoupling of kerosene with Mn- and Cu-based oxygen carriers in a circulating fluidized-bed 300W laboratory reactor. Fuel Processing Technology, 2012, 104, 378-389.	5.8	95
129	Prospects of Al2O3 and MgAl2O4-Supported CuO Oxygen Carriers in Chemical-Looping Combustion (CLC) and Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2011, 25, 5493-5502.	4.3	150
130	Influence of Lime Addition to Ilmenite in Chemical-Looping Combustion (CLC) with Solid Fuels. Energy & Fuels, 2011, 25, 3843-3853.	4.3	48
131	Using Low-Cost Iron-Based Materials as Oxygen Carriers for Chemical Looping Combustion. Oil and Gas Science and Technology, 2011, 66, 235-248.	1.5	66
132	Chemical Looping Combustion of Solid Fuels in a Laboratory Fluidized-bed Reactor. Oil and Gas Science and Technology, 2011, 66, 201-208.	1.5	18
133	Chemical Looping Combustion of Solid Fuels in a 10 kWthUnit. Oil and Gas Science and Technology, 2011, 66, 181-191.	1.5	36
134	Reactivity of a spray-dried NiO/NiAl2O4 oxygen carrier for chemical-looping combustion. Chemical Engineering Science, 2011, 66, 4636-4644.	3.8	52
135	Gasification inhibition in chemical-looping combustion with solid fuels. Combustion and Flame, 2011, 158, 393-400.	3.9	88
136	Combined manganese/iron oxides as oxygen carrier for chemical looping combustion with oxygen uncoupling (CLOU) in a circulating fluidized bed reactor system. Energy Procedia, 2011, 4, 341-348.	2.1	115
137	Chemical-looping with oxygen uncoupling using combined Mn-Fe oxides, testing in batch fluidized bed. Energy Procedia, 2011, 4, 370-377.	2.1	91
138	Chemical – Looping with oxygen uncoupling using Mn/Mg-based oxygen carriers – Oxygen release and reactivity with methane. Fuel, 2011, 90, 941-950.	5.8	120
139	CaMn0.875Ti0.125O3 as oxygen carrier for chemical-looping combustion with oxygen uncoupling (CLOU)—Experiments in a continuously operating fluidized-bed reactor system. International Journal of Greenhouse Gas Control, 2011, 5, 356-366.	4.0	146
140	Effect of fuel particle size on reaction rate in chemical looping combustion. Chemical Engineering Science, 2010, 65, 5841-5851.	3.8	15
141	Investigation of NiO-based mixed oxides in a 300-W chemical-looping combustor. Chemical Engineering Research and Design, 2010, 88, 661-672.	5.0	47
142	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.	5.0	102
143	Fe2O3 on Ce-, Ca-, or Mg-stabilized ZrO2 as oxygen carrier for chemical-looping combustion using NiO as additive. AICHE Journal, 2010, 56, 2211-2220.	3.3	70
144	Ilmenite with addition of NiO as oxygen carrier for chemical-looping combustion. Fuel, 2010, 89, 3523-3533.	5.8	80

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145	Investigation of NiO/NiAl2O4 oxygen carriers for chemical-looping combustion produced by spray-drying. International Journal of Greenhouse Gas Control, 2010, 4, 23-35.	4.0	66
146	Chemical-looping with oxygen uncoupling using CuO/ZrO2 with petroleum coke. Fuel, 2009, 88, 683-690.	5.8	221
147	Long-term integrity testing of spray-dried particles in a 10-kW chemical-looping combustor using natural gas as fuel. Fuel, 2009, 88, 2083-2096.	5.8	185
148	Solid fuels in chemical-looping combustion using oxide scale and unprocessed iron ore as oxygen carriers. Fuel, 2009, 88, 1945-1954.	5.8	155
149	Chemical-looping with oxygen uncoupling for combustion of solid fuels. International Journal of Greenhouse Gas Control, 2009, 3, 11-19.	4.0	612
150	Waste products from the steel industry with NiO as additive as oxygen carrier for chemical-looping combustion. International Journal of Greenhouse Gas Control, 2009, 3, 693-703.	4.0	36
151	Solid fuels in chemical-looping combustion using a NiO-based oxygen carrier. Chemical Engineering Research and Design, 2009, 87, 1543-1550.	5.0	73
152	Natural minerals as oxygen carriers for chemical looping combustion in a dual circulating fluidized bed system. Energy Procedia, 2009, 1, 27-34.	2.1	136
153	Using chemical-looping with oxygen uncoupling (CLOU) for combustion of six different solid fuels. Energy Procedia, 2009, 1, 447-453.	2.1	140
154	NiO particles with Ca and Mg based additives produced by spray- drying as oxygen carriers for chemical-looping combustion. Energy Procedia, 2009, 1, 479-486.	2.1	55
155	Chemical-looping Combustion CO2 Ready Gas Power. Energy Procedia, 2009, 1, 1557-1564.	2.1	31
156	High temperature behavior of NiO-based oxygen carriers for Chemical Looping Combustion. Energy Procedia, 2009, 1, 3885-3892.	2.1	54
157	Investigation of Different NiO/NiAl2O4 Particles as Oxygen Carriers for Chemical-Looping Combustion. Energy & Fuels, 2009, 23, 665-676.	4.3	65
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