Tobias Mattisson

List of Publications by Year in descending order

175 papers	15,089 citations	14644 66 h-index	18633 119 g-index
178 all docs	178 docs citations	178 times ranked	2612 citing authors

#	Article	IF	Citations
1	Fate of trace elements in Oxygen Carrier Aided Combustion (OCAC) of municipal solid waste. Fuel, 2022, 311, 122551.	3.4	8
2	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.	6.6	11
3	Alkali interactions with a calcium manganite oxygen carrier used in chemical looping combustion. Fuel Processing Technology, 2022, 227, 107099.	3.7	20
4	Thermochemical conversion of biomass volatiles via chemical looping: Comparison of ilmenite and steel converter waste materials as oxygen carriers. Fuel, 2022, 313, 122638.	3.4	30
5	Chemical Looping Combustion in a Packed Fluidized Bed Reactorâ”€Fundamental Modeling and Batch Experiments with Random Metal Packings. Energy & Fuels, 2022, 36, 9538-9550.	2.5	2
6	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.	2.5	10
7	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.	2.5	8
8	Process Analysis of Chemical Looping Gasification of Biomass for Fischerâ€“Tropsch Crude Production with Net-Negative CO₂ Emissions: Part 1. Energy & Fuels, 2022, 36, 9687-9705.	2.5	12
9	Techno-Economic Assessment of Chemical Looping Gasification of Biomass for Fischerâ€“Tropsch Crude Production with Net-Negative CO₂ Emissions: Part 2. Energy & Fuels, 2022, 36, 9706-9718.	2.5	4
10	Experimental evaluation of manganese ores for chemical looping conversion of synthetic biomass volatiles in a 300ÂW reactor system. Journal of Environmental Chemical Engineering, 2021, 9, 105112.	3.3	18
11	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.	2.9	17
12	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.	3.7	39
13	Alkali-wall interactions in a laboratory-scale reactor for chemical looping combustion studies. Fuel Processing Technology, 2021, 217, 106828.	3.7	24
14	Techno-economic analysis of processes with integration of fluidized bed heat exchangers for H2 production â€“ Part 2: Chemical-looping combustion. International Journal of Hydrogen Energy, 2021, 46, 25355-25375.	3.8	14
15	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.	3.7	17
16	Effect of the Presence of Siloxanes in Biogas Chemical Looping Combustion. Energy & Fuels, 2021, 35, 14984-14994.	2.5	6
17	An experimental study of a volatiles distributor for solid fuels chemical-looping combustion process. Fuel Processing Technology, 2021, 220, 106898.	3.7	11
18	Fate of lead, copper, zinc and antimony during chemical looping gasification of automotive shredder residue. Fuel, 2021, 302, 121147.	3.4	9

#	Article	IF	Citations
19	Experimental Investigation of Oxygen Carrier Aided Combustion (OCAC) with Methane and PSA Off-Gas. Applied Sciences (Switzerland), 2021, 11, 210.	1.3	4
20	Interaction of oxygen carriers with common biomass ash components. Fuel Processing Technology, 2020, 200, 106313.	3.7	26
21	Steel converter slag as an oxygen carrier for chemical-looping gasification. Fuel Processing Technology, 2020, 210, 106576.	3.7	43
22	Oxygenâ€Carrier Development of Calcium Manganiteâ€“Based Materials with Perovskite Structure for Chemicalâ€Looping Combustion of Methane. Energy Technology, 2020, 8, 2000069.	1.8	16
23	Techno-economic analysis of H2 production processes using fluidized bed heat exchangers with steam reforming â€“ Part 1: Oxygen carrier aided combustion. International Journal of Hydrogen Energy, 2020, 45, 6059-6081.	3.8	18
24	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.	6.6	48
25	Steel converter slag as an oxygen carrier in a 12 MWth CFB boiler â€“ Ash interaction and material evolution. International Journal of Greenhouse Gas Control, 2019, 88, 321-331.	2.3	50
26	Chemical-looping combustion in a 100â€kW unit using a mixture of synthetic and natural oxygen carriers â€“ Operational results and fate of biomass fuel alkali. International Journal of Greenhouse Gas Control, 2019, 88, 371-382.	2.3	51
27	Combined manganese oxides as oxygen carriers for biomass combustion â€” Ash interactions. Chemical Engineering Research and Design, 2019, 149, 104-120.	2.7	27
28	11,000â€h of chemical-looping combustion operationâ€”Where are we and where do we want to go?. International Journal of Greenhouse Gas Control, 2019, 88, 38-56.	2.3	148
29	Influence of heat treatment on manganese ores as oxygen carriers. International Journal of Greenhouse Gas Control, 2019, 87, 238-245.	2.3	7
30	Improved Gasâ€“Solids Mass Transfer in Fluidized Beds: Confined Fluidization in Chemical-Looping Combustion. Energy & Fuels, 2019, 33, 4442-4453.	2.5	7
31	Chemical-looping combustion of synthetic biomass-volatiles with manganese-ore oxygen carriers. International Journal of Greenhouse Gas Control, 2018, 71, 239-252.	2.3	30
32	Synthesis and upscaling of perovskite Mn-based oxygen carrier by industrial spray drying route. International Journal of Greenhouse Gas Control, 2018, 70, 68-75.	2.3	23
33	Chemical-looping technologies using circulating fluidized bed systems: Status of development. Fuel Processing Technology, 2018, 172, 1-12.	3.7	172
34	Chemical Looping Tar reforming with Fe,Sr-doped La2Zr2O7 pyrochlore supported on ZrO2. Applied Catalysis A: General, 2018, 550, 105-112.	2.2	15
35	Oxygen release from manganese ores relevant for chemical looping with oxygen uncoupling conditions. Fuel, 2018, 232, 693-703.	3.4	25
36	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.	2.3	40

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37	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.	3.3	42
38	The EU-FP7 Project SUCCESS â€“ Scale-up of Oxygen Carrier for Chemical Looping Combustion using Environmentally Sustainable Materials. Energy Procedia, 2017, 114, 395-406.	1.8	21
39	Chemical-looping combustion with heavy liquid fuels in a 10 kW pilotÂplant. Fuel Processing Technology, 2017, 156, 124-137.	3.7	39
40	Use of CuO/MgAl₂O₄ and La_{0.8}Sr_{0.2}FeO₃/Î³â€Al₂O₃ in chemical looping reforming system for tar removal from gasification gas. AICHE Journal, 2016, 62, 38-45.	1.8	23
41	Effect of Production Parameters on the Spray-Dried Calcium Manganite Oxygen Carriers for Chemical-Looping Combustion. Energy & Fuels, 2016, 30, 3257-3268.	2.5	14
42	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.	2.3	47
43	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.	3.3	11
44	Cu-impregnated alumina/silica bed materials for Chemical Looping Reforming of biomass gasification gas. Fuel, 2016, 180, 448-456.	3.4	38
45	Development of CaMn0.775Mg0.1Ti0.125O3-Î´ oxygen carriers produced from different Mn and Ti sources. Materials and Design, 2016, 89, 527-542.	3.3	26
46	Chemical looping tar reforming using La/Sr/Fe-containing mixed oxides supported on ZrO 2. Applied Catalysis B: Environmental, 2016, 183, 298-307.	10.8	48
47	Experimental investigation of binary and ternary combined manganese oxides for chemical-looping with oxygen uncoupling (CLOU). Fuel, 2016, 164, 228-236.	3.4	23
48	Chemical Looping Combustion: an Emerging Carbon Capture Technology. , 2015, , .		0
49	Screening of Combined Mn-Fe-Si Oxygen Carriers for Chemical Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2015, 29, 1868-1880.	2.5	19
50	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.	2.3	70
51	Comprehensive study of Mnâ€“Feâ€“Al oxygen-carriers for chemical-looping with oxygen uncoupling (CLOU). International Journal of Greenhouse Gas Control, 2015, 34, 12-24.	2.3	34
52	Standard Enthalpy of Formation of CuAl2O4Revisited. Chemical Engineering Communications, 2015, 202, 694-697.	1.5	2
53	Chemical-looping combustion using combined iron/manganese/silicon oxygen carriers. Applied Energy, 2015, 157, 330-337.	5.1	29
54	Screening of supported and unsupported Mnâ€“Si oxygen carriers for CLOU (chemical-looping with) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.5	30

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55	CaMnO3-Î´ Made from Low Cost Material Examined as Oxygen Carrier in Chemical-looping Combustion. Energy Procedia, 2014, 63, 80-86.	1.8	26
56	Sulfur Tolerance and Rate of Oxygen Release of Combined Mnâ€“Si Oxygen Carriers in Chemical-Looping with Oxygen Uncoupling (CLOU). Industrial & Engineering Chemistry Research, 2014, 53, 19488-19497.	1.8	14
57	Measuring attrition resistance of oxygen carrier particles for chemical looping combustion with a customized jet cup. Powder Technology, 2014, 256, 75-86.	2.1	143
58	Interaction of mineral matter of coal with oxygen carriers in chemical-looping combustion (CLC). Chemical Engineering Research and Design, 2014, 92, 1753-1770.	2.7	47
59	Investigation of different manganese ores as oxygen carriers in chemical-looping combustion (CLC) for solid fuels. Applied Energy, 2014, 113, 1883-1894.	5.1	124
60	Mnâ€“Fe Oxides with Support of MgAl₂O₄, CeO₂, ZrO₂ and Y₂O₃â€“ZrO₂ for Chemical-Looping Combustion and Chemical-Looping with Oxygen Uncoupling. Industrial & Engineering Chemistry Research, 2014, 53, 10358-10365.	1.8	44
61	CaZrO3 and SrZrO3-based CuO Oxygen Carriers for Chemical-looping with Oxygen Uncoupling (CLOU). Energy Procedia, 2014, 51, 75-84.	1.8	10
62	(Fe1-xMnx)TiyO3 based Oxygen Carriers for Chemical-looping Combustion and Chemical-looping with Oxygen Uncoupling. Energy Procedia, 2014, 51, 85-98.	1.8	21
63	CuO-Based Oxygen-Carrier Particles for Chemical-Looping with Oxygen Uncoupling â€“ Experiments in Batch Reactor and in Continuous Operation. Industrial & Engineering Chemistry Research, 2014, 53, 6255-6267.	1.8	54
64	Sulfur Tolerance of Ca_xMn_{1â€“y}M_yO_{3â^'Î´} (M = Mg, Ti) Perovskite-Type Oxygen Carriers in Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2014, 28, 1312-1324.	2.5	37
65	Chemical-Looping Combustion with Fuel Oil in a 10 kW Pilot Plant. Energy & Fuels, 2014, 28, 5978-5987.	2.5	37
66	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.	2.5	53
67	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.	2.3	35
68	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.	5.1	58
69	Combined oxides as oxygen-carrier material for chemical-looping with oxygen uncoupling. Applied Energy, 2014, 113, 1924-1932.	5.1	218
70	Investigation of Manganeseâ€“Iron Oxide Materials based on Manganese Ores as Oxygen Carriers for Chemical Looping with Oxygen Uncoupling (CLOU). Energy Technology, 2014, 2, 469-479.	1.8	16
71	Combined oxides of iron, manganese and silica as oxygen carriers for chemical-looping combustion. Fuel Processing Technology, 2014, 124, 87-96.	3.7	29
72	Innovative Oxygen Carriers Uplifting Chemical-looping Combustion. Energy Procedia, 2014, 63, 113-130.	1.8	50

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73	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.	1.8	5
74	(<scp>Mn_zFe_{1â€”z})_yO_x</scp> combined oxides as oxygen carrier for chemicalâ€looping with oxygen uncoupling. AICHE Journal, 2013, 59, 582-588.	1.8	73
75	ZrO2-Supported CuO Oxygen Carriers for Chemical-Looping with Oxygen Uncoupling (CLOU). Energy Procedia, 2013, 37, 550-559.	1.8	14
76	The Effect of Bituminous and Lignite Ash on the Performance of Ilmenite as Oxygen Carrier in Chemicalâ€Looping Combustion. Chemical Engineering and Technology, 2013, 36, 1460-1468.	0.9	46
77	Examining the Cu-Mn-O Spinel System as an Oxygen Carrier in Chemical Looping Combustion. Energy Technology, 2013, 1, 59-69.	1.8	2
78	Chemical-Looping Combustion with Liquid Fuels. Energy Procedia, 2013, 37, 654-661.	1.8	23
79	Innovative Oxygen Carrier Materials for Chemical-Looping Combustion. Energy Procedia, 2013, 37, 645-653.	1.8	28
80	CaMn_{0.9}Mg_{0.1}O_{3-Î´} as Oxygen Carrier in a Gas-Fired 10 kW_{th}Chemical-Looping Combustion Unit. Industrial & Engineering Chemistry Research, 2013, 52, 6923-6932.	1.8	92
81	On the highâ€gasification rate of Brazilian manganese ore in chemicalâ€looping combustion (CLC) for solid fuels. AICHE Journal, 2013, 59, 4346-4354.	1.8	26
82	Combined Cu/Mn Oxides as an Oxygen Carrier in Chemical Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2013, 27, 6031-6039.	2.5	40
83	Chemical Looping Combustion and Chemical Looping with Oxygen Uncoupling Experiments in a Batch Reactor Using Spray-Dried CaMn_{1â€“x}M_xO_{3â^Î´} (M = Ti,) Tj EMCq1 1 0.784314 g	2.0	78
84	Ca_xLa_{1â€“x}Mn_{1â€“y}M_yO_{3â^Î´} (M = Mg, Ti, Fe, or Cu) as Oxygen Carriers for Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2013, 27, 4097-4107.	2.5	54
85	Investigation of Different Mnâ€“Fe Oxides as Oxygen Carrier for Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2013, 27, 367-377.	2.5	116
86	Investigation of Combined Supports for Cu-Based Oxygen Carriers for Chemical-Looping with Oxygen Uncoupling (CLOU). Energy & Fuels, 2013, 27, 3918-3927.	2.5	65
87	Examination of Perovskite Structure CaMnO_{3-Î´}with MgO Addition as Oxygen Carrier for Chemical Looping with Oxygen Uncoupling Using Methane and Syngas. International Journal of Chemical Engineering, 2013, 2013, 1-16.	1.4	29
88	CaMn_{0.875}Ti_{0.125}O_{3â^’Î´} as an Oxygen Carrier for Chemicalâ€Looping with Oxygen Uncoupling (CLOU)â€”Solidâ€Fuel Testing and Sulfur Interaction. Energy Technology, 2013, 1, 338-344.	1.8	22
89	Mechanisms of Solid Fuel Conversion by Chemicalâ€Looping Combustion (CLC) using Manganese Ore: Catalytic Gasification by Potassium Compounds. Energy Technology, 2013, 1, 273-282.	1.8	42
90	Materials for Chemical-Looping with Oxygen Uncoupling. ISRN Chemical Engineering, 2013, 2013, 1-19.	1.2	108

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91	Examining the Cu-Mn-O Spinel System as an Oxygen Carrier in Chemical Looping Combustion. Energy Technology, 2013, 1, 59-69.	1.8	47
92	Evaluation of Novel Ceria-Supported Metal Oxides As Oxygen Carriers for Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2012, 51, 12796-12806.	1.8	51
93	Evaluation of CuAl₂O₄ as an Oxygen Carrier in Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2012, 51, 13924-13934.	1.8	73
94	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.	2.5	75
95	Use of manganese ore in chemical-looping combustion (CLC)â€"Effect on steam gasification. International Journal of Greenhouse Gas Control, 2012, 8, 56-60.	2.3	54
96	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.	2.3	62
97	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.	3.7	82
98	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.	2.5	133
99	Influence of Lime Addition to Ilmenite in Chemical-Looping Combustion (CLC) with Solid Fuels. Energy & Fuels, 2011, 25, 3843-3853.	2.5	44
100	Using Low-Cost Iron-Based Materials as Oxygen Carriers for Chemical Looping Combustion. Oil and Gas Science and Technology, 2011, 66, 235-248.	1.4	62
101	Chemical Looping Combustion of Solid Fuels in a Laboratory Fluidized-bed Reactor. Oil and Gas Science and Technology, 2011, 66, 201-208.	1.4	17
102	Chemical Looping Combustion of Solid Fuels in a 10 kW_{th}Unit. Oil and Gas Science and Technology, 2011, 66, 181-191.	1.4	33
103	Reactivity of a spray-dried NiO/NiAl2O4 oxygen carrier for chemical-looping combustion. Chemical Engineering Science, 2011, 66, 4636-4644.	1.9	46
104	Gasification inhibition in chemical-looping combustion with solid fuels. Combustion and Flame, 2011, 158, 393-400.	2.8	83
105	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.	1.8	105
106	Chemical-looping with oxygen uncoupling using combined Mn-Fe oxides, testing in batch fluidized bed. Energy Procedia, 2011, 4, 370-377.	1.8	84
107	Chemical â€“ Looping with oxygen uncoupling using Mn/Mg-based oxygen carriers â€“ Oxygen release and reactivity with methane. Fuel, 2011, 90, 941-950.	3.4	109
108	CaMn0.875Ti0.125O3 as oxygen carrier for chemical-looping combustion with oxygen uncoupling (CLOU)â€"Experiments in a continuously operating fluidized-bed reactor system. International Journal of Greenhouse Gas Control, 2011, 5, 356-366.	2.3	132

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109	Effect of fuel particle size on reaction rate in chemical looping combustion. Chemical Engineering Science, 2010, 65, 5841-5851.	1.9	13
110	Investigation of NiO-based mixed oxides in a 300-W chemical-looping combustor. Chemical Engineering Research and Design, 2010, 88, 661-672.	2.7	46
111	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
112	Evaporation of pyrolysis oil: Product distribution and residue char analysis. AICHE Journal, 2010, 56, 2200-2210.	1.8	7
113	Fe₂O₃ on Ceâ€, Caâ€, or Mgâ€stabilized ZrO₂ as oxygen carrier for chemicalâ€looping combustion using NiO as additive. AICHE Journal, 2010, 56, 2211-2220.	1.8	22
114	Ilmenite with addition of NiO as oxygen carrier for chemical-looping combustion. Fuel, 2010, 89, 3523-3533.	3.4	68
115	Investigation of NiO/NiAl2O4 oxygen carriers for chemical-looping combustion produced by spray-drying. International Journal of Greenhouse Gas Control, 2010, 4, 23-35.	2.3	61
116	Chemical-looping with oxygen uncoupling using CuO/ZrO2 with petroleum coke. Fuel, 2009, 88, 683-690.	3.4	208
117	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.	3.4	172
118	Solid fuels in chemical-looping combustion using oxide scale and unprocessed iron ore as oxygen carriers. Fuel, 2009, 88, 1945-1954.	3.4	150
119	Chemical-looping with oxygen uncoupling for combustion of solid fuels. International Journal of Greenhouse Gas Control, 2009, 3, 11-19.	2.3	554
120	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.	2.3	30
121	Solid fuels in chemical-looping combustion using a NiO-based oxygen carrier. Chemical Engineering Research and Design, 2009, 87, 1543-1550.	2.7	69
122	Natural minerals as oxygen carriers for chemical looping combustion in a dual circulating fluidized bed system. Energy Procedia, 2009, 1, 27-34.	1.8	125
123	Using chemical-looping with oxygen uncoupling (CLOU) for combustion of six different solid fuels. Energy Procedia, 2009, 1, 447-453.	1.8	128
124	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.	1.8	53
125	Chemical-looping Combustion CO2 Ready Gas Power. Energy Procedia, 2009, 1, 1557-1564.	1.8	30
126	High temperature behavior of NiO-based oxygen carriers for Chemical Looping Combustion. Energy Procedia, 2009, 1, 3885-3892.	1.8	51

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127	Investigation of Different NiO/NiAl₂O₄ Particles as Oxygen Carriers for Chemical-Looping Combustion. Energy & Fuels, 2009, 23, 665-676.	2.5	61
128	Use of CaMn_{0.875}Ti_{0.125}O₃as Oxygen Carrier in Chemical-Looping with Oxygen Uncoupling. Energy & Fuels, 2009, 23, 5276-5283.	2.5	151
129	Manganese/Iron, Manganese/Nickel, and Manganese/Silicon Oxides Used in Chemical-Looping With Oxygen Uncoupling (CLOU) for Combustion of Methane. Energy & Fuels, 2009, 23, 5269-5275.	2.5	188
130	High Reactivity and Mechanical Durability of NiO/NiAl₂O₄ and NiO/NiAl₂O₄/MgAl₂O₄ Oxygen Carrier Particles Used for more than 1000 h in a 10 kW CLC Reactor. Industrial & Engineering Chemistry Research, 2009, 48, 7400-7405.	1.8	56
131	Use of Ores and Industrial Products As Oxygen Carriers in Chemical-Looping Combustion. Energy & Fuels, 2009, 23, 2307-2315.	2.5	150
132	NiO supported on Mgâ€“ZrO2 as oxygen carrier for chemical-looping combustion and chemical-looping reforming. Energy and Environmental Science, 2009, 2, 970.	15.6	98
133	The use of ilmenite as an oxygen carrier in chemical-looping combustion. Chemical Engineering Research and Design, 2008, 86, 1017-1026.	2.7	308
134	Novel oxygen-carrier materials for chemical-looping combustion and chemical-looping reforming; LaxSr1â^'xFeyCo1â^'yO3â^'Î´ perovskites and mixed-metal oxides of NiO, Fe2O3 and Mn3O4. International Journal of Greenhouse Gas Control, 2008, 2, 21-36.	2.3	222
135	Solid fuels in chemical-looping combustion. International Journal of Greenhouse Gas Control, 2008, 2, 180-193.	2.3	312
136	The reaction of NiO/NiAl₂O₄ particles with alternating methane and oxygen. Canadian Journal of Chemical Engineering, 2008, 86, 756-767.	0.9	39
137	Using continuous and pulse experiments to compare two promising nickel-based oxygen carriers for use in chemical-looping technologies. Fuel, 2008, 87, 988-1001.	3.4	84
138	160h of chemical-looping combustion in a 10kW reactor system with a NiO-based oxygen carrier. International Journal of Greenhouse Gas Control, 2008, 2, 520-530.	2.3	166
139	Chemical-Looping Combustion and Chemical-Looping Reforming in a Circulating Fluidized-Bed Reactor Using Ni-Based Oxygen Carriers. Energy & Fuels, 2008, 22, 2585-2597.	2.5	179
140	Reaction Kinetics of Freeze-Granulated NiO/MgAl2O4Oxygen Carrier Particles for Chemical-Looping Combustion. Energy & Fuels, 2007, 21, 610-618.	2.5	91
141	The use of iron oxide as oxygen carrier in a chemical-looping reactor. Fuel, 2007, 86, 1021-1035.	3.4	284
142	The use of petroleum coke as fuel in chemical-looping combustion. Fuel, 2007, 86, 1947-1958.	3.4	266
143	Chemical-looping combustion using syngas as fuel. International Journal of Greenhouse Gas Control, 2007, 1, 158-169.	2.3	139
144	Reduction and oxidation kinetics of Mn3O4/Mgâ€“ZrO2 oxygen carrier particles for chemical-looping combustion. Chemical Engineering Science, 2007, 62, 6556-6567.	1.9	136

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145	Defluidization Conditions for a Fluidized Bed of Iron Oxide-, Nickel Oxide-, and Manganese Oxide-Containing Oxygen Carriers for Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2006, 45, 968-977.	1.8	116
146	Creating a Synergy Effect by Using Mixed Oxides of Iron- and Nickel Oxides in the Combustion of Methane in a Chemical-Looping Combustion Reactor. Energy & Fuels, 2006, 20, 2399-2407.	2.5	110
147	Comparison of oxygen carriers for chemical-looping combustion. Thermal Science, 2006, 10, 93-107.	0.5	93
148	The use of NiO as an oxygen carrier in chemical-looping combustion. Fuel, 2006, 85, 736-747.	3.4	277
149	Chemical-looping combustion in a 300W continuously operating reactor system using a manganese-based oxygen carrier. Fuel, 2006, 85, 1174-1185.	3.4	259
150	A 300W laboratory reactor system for chemical-looping combustion with particle circulation. Fuel, 2006, 85, 1428-1438.	3.4	139
151	Synthesis gas generation by chemical-looping reforming in a continuously operating laboratory reactor. Fuel, 2006, 85, 1631-1641.	3.4	236
152	Use of NiO/NiAl2O4 Particles in a 10 kW Chemical-Looping Combustor. Industrial & Engineering Chemistry Research, 2006, 45, 5911-5919.	1.8	77
153	Investigation of Mn3O4 With Stabilized ZrO2 for Chemical-Looping Combustion. Chemical Engineering Research and Design, 2006, 84, 807-818.	2.7	140
154	Thermal Analysis of Chemical-Looping Combustion. Chemical Engineering Research and Design, 2006, 84, 795-806.	2.7	377
155	Combustion of Syngas and Natural Gas in a 300 W Chemical-Looping Combustor. Chemical Engineering Research and Design, 2006, 84, 819-827.	2.7	137
156	Redox Investigation of Some Oxides of Transition-State Metals Ni, Cu, Fe, and Mn Supported on SiO2and MgAl2O4. Energy & Fuels, 2006, 20, 34-44.	2.5	228
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