

Juan Adanez

List of Publications by Year in descending order

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240
papers

17,200
citations

13827

67
h-index

17546

121
g-index

242
all docs

242
docs citations

242
times ranked

3888
citing authors

#	ARTICLE	IF	CITATIONS
1	Qualification of operating conditions to extend oxygen carrier utilization in the scaling up of chemical looping processes. <i>Chemical Engineering Journal</i> , 2022, 430, 132602.	6.6	13
2	Synthesis gas and H ₂ production by chemical looping reforming using bio-oil from fast pyrolysis of wood as raw material. <i>Chemical Engineering Journal</i> , 2022, 431, 133376.	6.6	10
3	Ca-based sorbents as precursors of oxygen carriers in chemical looping combustion of sulfurous fuels. <i>Fuel</i> , 2022, 312, 122743.	3.4	3
4	Structure and Reactivity of Brazilian Iron Ores as Low-Cost Oxygen Carriers for Chemical Looping Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 2469-2482.	1.8	11
5	Coal and biomass combustion with CO ₂ capture by CLOU process using a magnetic Fe-Mn-supported CuO oxygen carrier. <i>Fuel</i> , 2022, 314, 122742.	3.4	10
6	Novel magnetic manganese-iron materials for separation of solids used in high-temperature processes: Application to oxygen carriers for chemical looping combustion. <i>Fuel</i> , 2022, 320, 123901.	3.4	10
7	Influence of an Oxygen Carrier on the CH ₄ Reforming Reaction Linked to the Biomass Chemical Looping Gasification Process. <i>Energy & Fuels</i> , 2022, 36, 9460-9469.	2.5	10
8	Techno-economic analysis of a chemical looping combustion process for biogas generated from livestock farming and agro-industrial waste. <i>Energy Conversion and Management</i> , 2022, 267, 115865.	4.4	13
9	Biomass chemical looping gasification for syngas production using ilmenite as oxygen carrier in a 1.5 kW _{th} unit. <i>Chemical Engineering Journal</i> , 2021, 405, 126679.	6.6	84
10	Evaluation of the redox capability of manganese-titanium mixed oxides for thermochemical energy storage and chemical looping processes. <i>Fuel Processing Technology</i> , 2021, 211, 106579.	3.7	15
11	Use of bio-glycerol for the production of synthesis gas by chemical looping reforming. <i>Fuel</i> , 2021, 288, 119578.	3.4	11
12	Development of CuO-based oxygen carriers supported on diatomite and kaolin for chemical looping combustion. <i>Research, Society and Development</i> , 2021, 10, e15110412831.	0.0	2
13	Increasing energy efficiency in chemical looping combustion of methane by in-situ activation of perovskite-based oxygen carriers. <i>Applied Energy</i> , 2021, 287, 116557.	5.1	30
14	On the optimization of physical and chemical stability of a Cu/Al ₂ O ₃ impregnated oxygen carrier for chemical looping combustion. <i>Fuel Processing Technology</i> , 2021, 215, 106740.	3.7	28
15	Behavior of a manganese-iron mixed oxide doped with titanium in reducing the oxygen demand for CLC of biomass. <i>Fuel</i> , 2021, 292, 120381.	3.4	10
16	Cu-Mn oxygen carrier with improved mechanical resistance: Analyzing performance under CLC and CLOU environments. <i>Fuel Processing Technology</i> , 2021, 217, 106819.	3.7	13
17	Development of a magnetic Cu-based oxygen carrier for the chemical looping with oxygen uncoupling (CLOU) process. <i>Fuel Processing Technology</i> , 2021, 218, 106836.	3.7	23
18	Syngas Production in a 1.5 kW _{th} Biomass Chemical Looping Gasification Unit Using Fe and Mn Ores as the Oxygen Carrier. <i>Energy & Fuels</i> , 2021, 35, 17182-17196.	2.5	30

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19	Effect of the Presence of Siloxanes in Biogas Chemical Looping Combustion. <i>Energy & Fuels</i> , 2021, 35, 14984-14994.	2.5	6
20	Biomass chemical looping gasification for syngas production using LD Slag as oxygen carrier in a 1.5 kWth unit. <i>Fuel Processing Technology</i> , 2021, 222, 106963.	3.7	39
21	Coal combustion via Chemical Looping assisted by Oxygen Uncoupling with a manganese-iron mixed oxide doped with titanium. <i>Fuel Processing Technology</i> , 2020, 197, 106184.	3.7	33
22	Double perovskite (La _{2-x} Ca _x)NiO ₄ oxygen carriers for chemical looping reforming applications. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1681-1696.	3.8	21
23	Biomass Chemical Looping Gasification of pine wood using a synthetic Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier in a continuous unit. <i>Bioresource Technology</i> , 2020, 316, 123908.	4.8	65
24	Application of Core-Shell-Structured K ₂ CO ₃ -Based Sorbents in Postcombustion CO ₂ Capture: Statistical Analysis and Optimization Using Response Surface Methodology. <i>Energy & Fuels</i> , 2020, 34, 3429-3439.	2.5	15
25	Performance Evaluation of a Cu-Based Oxygen Carrier Impregnated onto ZrO ₂ for Chemical-Looping Combustion (CLC). <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7255-7266.	1.8	27
26	Kinetics of CaMn _{0.775} Ti _{0.125} Mg _{0.102} Fe _{0.9} perovskite prepared at industrial scale and its implication on the performance of chemical looping combustion of methane. <i>Chemical Engineering Journal</i> , 2020, 394, 124863.	6.6	23
27	Improving the oxygen demand in biomass CLC using manganese ores. <i>Fuel</i> , 2020, 274, 117803.	3.4	17
28	Evaluation of different strategies to improve the efficiency of coal conversion in a 50 kWth Chemical Looping combustion unit. <i>Fuel</i> , 2020, 271, 117514.	3.4	18
29	Thermochemical assessment of chemical looping assisted by oxygen uncoupling with a MnFe-based oxygen carrier. <i>Applied Energy</i> , 2019, 251, 113340.	5.1	20
30	Evaluation of Mn-Fe mixed oxide doped with TiO ₂ for the combustion with CO ₂ capture by Chemical Looping assisted by Oxygen Uncoupling. <i>Applied Energy</i> , 2019, 237, 822-835.	5.1	37
31	Improving the efficiency of Chemical Looping Combustion with coal by using ring-type internals in the fuel reactor. <i>Fuel</i> , 2019, 250, 8-16.	3.4	11
32	Chemical looping with oxygen uncoupling: an advanced biomass combustion technology to avoid CO ₂ emissions. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2019, 24, 1293-1306.	1.0	14
33	Comparative study of fuel-N and tar evolution in chemical looping combustion of biomass under both iG-CLC and CLOU modes. <i>Fuel</i> , 2019, 236, 598-607.	3.4	31
34	Modelling Chemical-Looping assisted by Oxygen Uncoupling (CLaOU): Assessment of natural gas combustion with calcium manganite as oxygen carrier. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4361-4369.	2.4	12
35	Reduction and oxidation kinetics of Tiera iron ore for Chemical Looping Combustion with diverse fuels. <i>Chemical Engineering Journal</i> , 2019, 359, 37-46.	6.6	42
36	Chemical-looping combustion: Status and research needs. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4303-4317.	2.4	141

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37	Assessment of low-cost oxygen carrier in South-western Colombia, and its use in the in-situ gasification chemical looping combustion technology. <i>Fuel</i> , 2018, 218, 417-424.	3.4	23
38	Development and validation of a 1D process model with autothermal operation of a 1â€MW th chemical looping pilot plant. <i>International Journal of Greenhouse Gas Control</i> , 2018, 73, 29-41.	2.3	26
39	Assessment of the improvement of chemical looping combustion of coal by using a manganese ore as oxygen carrier. <i>Fuel Processing Technology</i> , 2018, 176, 107-118.	3.7	27
40	Chemical Looping Combustion of gaseous and solid fuels with manganese-iron mixed oxide as oxygen carrier. <i>Energy Conversion and Management</i> , 2018, 159, 221-231.	4.4	61
41	Relevance of plant design on CLC process performance using a Cu-based oxygen carrier. <i>Fuel Processing Technology</i> , 2018, 171, 78-88.	3.7	23
42	Reduction and Oxidation Kinetics of Feâ€Mn-Based Minerals from Southwestern Colombia for Chemical Looping Combustion. <i>Energy & Fuels</i> , 2018, 32, 1923-1933.	2.5	14
43	Chemical looping combustion of solid fuels. <i>Progress in Energy and Combustion Science</i> , 2018, 65, 6-66.	15.8	433
44	Chemical looping combustion of biomass: CLOU experiments with a Cu-Mn mixed oxide. <i>Fuel Processing Technology</i> , 2018, 172, 179-186.	3.7	61
45	Chemical Looping Combustion of different types of biomass in a 0.5 kWth unit. <i>Fuel</i> , 2018, 211, 868-875.	3.4	72
46	CLOU process performance with a Cu-Mn oxygen carrier in the combustion of different types of coal with CO ₂ capture. <i>Fuel</i> , 2018, 212, 605-612.	3.4	33
47	Fe ₂ O ₃ â€Al ₂ O ₃ oxygen carrier materials for chemical looping combustion, a redox thermodynamic and thermogravimetric evaluation in the presence of H ₂ S. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 1739-1748.	2.0	8
48	Negative CO ₂ emissions through the use of biofuels in chemical looping technology: A review. <i>Applied Energy</i> , 2018, 232, 657-684.	5.1	166
49	Mn-based oxygen carriers prepared by impregnation for Chemical Looping Combustion with diverse fuels. <i>Fuel Processing Technology</i> , 2018, 178, 236-250.	3.7	44
50	A simple model for comparative evaluation of different oxygen carriers and solid fuels in iG-CLC processes. <i>Fuel Processing Technology</i> , 2018, 179, 444-454.	3.7	17
51	Autothermal chemical looping reforming process of different fossil liquid fuels. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13633-13640.	3.8	29
52	Titanium substituted manganese-ferrite as an oxygen carrier with permanent magnetic properties for chemical looping combustion of solid fuels. <i>Fuel</i> , 2017, 195, 38-48.	3.4	56
53	Chemical Looping Combustion of liquid fossil fuels in a 1 kW th unit using a Fe-based oxygen carrier. <i>Fuel Processing Technology</i> , 2017, 160, 47-54.	3.7	32
54	Steam, dry, and steam-dry chemical looping reforming of diesel fuel in a 1 kW th unit. <i>Chemical Engineering Journal</i> , 2017, 325, 369-377.	6.6	26

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55	Development of (Mn _{0.77} Fe _{0.23}) ₂ O ₃ particles as an oxygen carrier for coal combustion with CO ₂ capture via in-situ gasification chemical looping combustion (iG-CLC) aided by oxygen uncoupling (CLOU). Fuel Processing Technology, 2017, 164, 69-79.	3.7	41
56	In situ gasification Chemical-Looping Combustion of coal using limestone as oxygen carrier precursor and sulphur sorbent. Chemical Engineering Journal, 2017, 310, 226-239.	6.6	45
57	Coal combustion with a spray granulated Cu-Mn mixed oxide for the Chemical Looping with Oxygen Uncoupling (CLOU) process. Applied Energy, 2017, 208, 561-570.	5.1	23
58	Mercury emissions from coal combustion in fluidized beds under oxy-fuel and air conditions: Influence of coal characteristics and O ₂ concentration. Fuel Processing Technology, 2017, 167, 695-701.	3.7	6
59	Spray granulated Cu-Mn oxygen carrier for chemical looping with oxygen uncoupling (CLOU) process. International Journal of Greenhouse Gas Control, 2017, 65, 76-85.	2.3	24
60	Combustion and Reforming of Liquid Fossil Fuels through Chemical Looping Processes: Integration of Chemical Looping Processes in a Refinery. Energy Procedia, 2017, 114, 325-333.	1.8	15
61	Comparative Evaluation of the Performance of Coal Combustion in 0.5 and 50 kWth Chemical Looping Combustion Units with Ilmenite, Redmud or Iron Ore as Oxygen Carrier. Energy Procedia, 2017, 114, 285-301.	1.8	26
62	The EU-FP7 Project SUCCESS “Scale-up of Oxygen Carrier for Chemical Looping Combustion using Environmentally Sustainable Materials. Energy Procedia, 2017, 114, 395-406.	1.8	21
63	Chemical Looping Combustion of Biomass: An Approach to BECCS. Energy Procedia, 2017, 114, 6021-6029.	1.8	22
64	Promising Impregnated Mn-based Oxygen Carriers for Chemical Looping Combustion of Gaseous Fuels. Energy Procedia, 2017, 114, 334-343.	1.8	16
65	Evaluation of (Mn _x Fe _{1-x}) ₂ Ti _y O _z Particles as Oxygen Carrier for Chemical Looping Combustion. Energy Procedia, 2017, 114, 302-308.	1.8	6
66	Mercury capture by a structured Au/C regenerable sorbent under oxycoal combustion representative and real conditions. Fuel, 2017, 207, 821-829.	3.4	16
67	Tar abatement for clean syngas production during biomass gasification in a dual fluidized bed. Fuel Processing Technology, 2016, 152, 116-123.	3.7	40
68	Process Comparison for Biomass Combustion: In-situ Gasification-Chemical Looping Combustion (iG-CLC) versus Chemical Looping with Oxygen Uncoupling (CLOU). Energy Technology, 2016, 4, 1130-1136.	1.8	50
69	On the attrition evaluation of oxygen carriers in Chemical Looping Combustion. Fuel Processing Technology, 2016, 148, 188-197.	3.7	102
70	Manganese Minerals as Oxygen Carriers for Chemical Looping Combustion of Coal. Industrial & Engineering Chemistry Research, 2016, 55, 6539-6546.	1.8	38
71	Long-lasting Cu-based oxygen carrier material for industrial scale in Chemical Looping Combustion. International Journal of Greenhouse Gas Control, 2016, 52, 120-129.	2.3	60
72	Use of Hopcalite-Derived Cu-Mn Mixed Oxide as Oxygen Carrier for Chemical Looping with Oxygen Uncoupling Process. Energy & Fuels, 2016, 30, 5953-5963.	2.5	26

#	ARTICLE	IF	CITATIONS
73	Sulphuric acid production via Chemical Looping Combustion of elemental sulphur. Applied Energy, 2016, 178, 736-745.	5.1	36
74	Coal combustion in a 50kWth Chemical Looping Combustion unit: Seeking operating conditions to maximize CO2 capture and combustion efficiency. International Journal of Greenhouse Gas Control, 2016, 50, 80-92.	2.3	69
75	Tar abatement in a fixed bed catalytic filter candle during biomass gasification in a dual fluidized bed. Applied Catalysis B: Environmental, 2016, 188, 198-206.	10.8	32
76	Optimization of hydrogen production with CO2 capture by autothermal chemical-looping reforming using different bioethanol purities. Applied Energy, 2016, 169, 491-498.	5.1	32
77	Sulphur, nitrogen and mercury emissions from coal combustion with CO2 capture in chemical looping with oxygen uncoupling (CLOU). International Journal of Greenhouse Gas Control, 2016, 46, 28-38.	2.3	55
78	The fate of mercury in fluidized beds under oxy-fuel combustion conditions. Fuel, 2016, 167, 75-81.	3.4	18
79	Bioethanol combustion with CO2 capture in a 1kWth Chemical Looping Combustion prototype: Suitability of the oxygen carrier. Chemical Engineering Journal, 2016, 283, 1405-1413.	6.6	26
80	Characterization for disposal of Fe-based oxygen carriers from a CLC unit burning coal. Fuel Processing Technology, 2015, 138, 750-757.	3.7	23
81	Characterization of a sol-gel derived CuO/CuAl2O4 oxygen carrier for chemical looping combustion (CLC) of gaseous fuels: Relevance of gas-solid and oxygen uncoupling reactions. Fuel Processing Technology, 2015, 133, 210-219.	3.7	49
82	Redox kinetics of CaMg0.1Ti0.125Mn0.775O2.9 for Chemical Looping Combustion (CLC) and Chemical Looping with Oxygen Uncoupling (CLOU). Chemical Engineering Journal, 2015, 269, 67-81.	6.6	61
83	Chemical looping combustion of gaseous fuels. , 2015, , 255-285.		1
84	Design and operation of a 50 kWth Chemical Looping Combustion (CLC) unit for solid fuels. Applied Energy, 2015, 157, 295-303.	5.1	85
85	Conceptual design of a 100 MWth CLC unit for solid fuel combustion. Applied Energy, 2015, 157, 462-474.	5.1	61
86	Performance of a low-cost iron ore as an oxygen carrier for Chemical Looping Combustion of gaseous fuels. Chemical Engineering Research and Design, 2015, 93, 736-746.	2.7	49
87	NO and N2O emissions in oxy-fuel combustion of coal in a bubbling fluidized bed combustor. Fuel, 2015, 150, 146-153.	3.4	54
88	Syngas/H2 production from bioethanol in a continuous chemical-looping reforming prototype. Fuel Processing Technology, 2015, 137, 24-30.	3.7	36
89	Morphological analysis of sulfated Ca-based sorbents under conditions corresponding to oxy-fuel fluidized bed combustion. Fuel, 2015, 162, 264-270.	3.4	10
90	Evaluation of Manganese Minerals for Chemical Looping Combustion. Energy & Fuels, 2015, 29, 6605-6615.	2.5	54

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91	Combustion and Reforming of Ethanol in a Chemical Looping Continuous Unit. Energy Procedia, 2014, 63, 53-62.	1.8	11
92	Design and Operation of a Coal-fired 50 kWth Chemical Looping Combustor. Energy Procedia, 2014, 63, 63-72.	1.8	30
93	On a Highly Reactive $\text{Fe}_2\text{O}_3/\text{Al}_2\text{O}_3$ Oxygen Carrier for <i>In Situ</i> Gasification Chemical Looping Combustion. Energy & Fuels, 2014, 28, 7043-7052.	2.5	37
94	The fate of sulphur in the Cu-based Chemical Looping with Oxygen Uncoupling (CLOU) Process. Applied Energy, 2014, 113, 1855-1862.	5.1	66
95	Performance of a highly reactive impregnated $\text{Fe}_2\text{O}_3/\text{Al}_2\text{O}_3$ oxygen carrier with CH_4 and H_2S in a 500Wth CLC unit. Fuel, 2014, 121, 117-125.	3.4	99
96	Kinetic determination of a highly reactive impregnated $\text{Fe}_2\text{O}_3/\text{Al}_2\text{O}_3$ oxygen carrier for use in gas-fueled Chemical Looping Combustion. Chemical Engineering Journal, 2014, 258, 265-280.	6.6	103
97	Mercury Release and Speciation in Chemical Looping Combustion of Coal. Energy & Fuels, 2014, 28, 2786-2794.	2.5	34
98	Energy exploitation of acid gas with high H_2S content by means of a chemical looping combustion system. Applied Energy, 2014, 136, 242-249.	5.1	31
99	Kinetic analysis of a Cu-based oxygen carrier: Relevance of temperature and oxygen partial pressure on reduction and oxidation reactions rates in Chemical Looping with Oxygen Uncoupling (CLOU). Chemical Engineering Journal, 2014, 256, 69-84.	6.6	96
100	Performance of Cu- and Fe-based oxygen carriers in a 500 W th CLC unit for sour gas combustion with high H_2S content. International Journal of Greenhouse Gas Control, 2014, 28, 168-179.	2.3	64
101	Reduction and Oxidation Kinetics of a $\text{CaMn}_{0.9}\text{Mg}_{0.1}\text{O}_{3-\delta}$ Oxygen Carrier for Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2014, 53, 87-103.	1.8	70
102	Biomass combustion with CO_2 capture by chemical looping with oxygen uncoupling (CLOU). Fuel Processing Technology, 2014, 124, 104-114.	3.7	129
103	Sulfur retention in an oxy-fuel bubbling fluidized bed combustor: Effect of coal rank, type of sorbent and O_2/CO_2 ratio. Fuel, 2014, 137, 384-392.	3.4	27
104	Effect of Operating Conditions and H_2S Presence on the Performance of $\text{CaMg}_{0.1}\text{Mn}_{0.9}\text{O}_{3-\delta}$ Perovskite Material in Chemical Looping Combustion (CLC). Energy & Fuels, 2014, 28, 1262-1274.	2.5	54
105	On the use of a highly reactive iron ore in Chemical Looping Combustion of different coals. Fuel, 2014, 126, 239-249.	3.4	95
106	Release of pollutant components in CLC of lignite. International Journal of Greenhouse Gas Control, 2014, 22, 15-24.	2.3	65
107	Relevance of the catalytic activity on the performance of a $\text{NiO}/\text{CaAl}_2\text{O}_4$ oxygen carrier in a CLC process. Applied Catalysis B: Environmental, 2014, 147, 980-987.	10.8	35
108	Innovative Oxygen Carriers Uplifting Chemical-looping Combustion. Energy Procedia, 2014, 63, 113-130.	1.8	50

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109	Assessment of technological solutions for improving chemical looping combustion of solid fuels with CO ₂ capture. <i>Chemical Engineering Journal</i> , 2013, 233, 56-69.	6.6	76
110	Use of chemically and physically mixed iron and nickel oxides as oxygen carriers for gas combustion in a CLC process. <i>Fuel Processing Technology</i> , 2013, 115, 152-163.	3.7	44
111	Optimum temperature for sulphur retention in fluidised beds working under oxy-fuel combustion conditions. <i>Fuel</i> , 2013, 114, 106-113.	3.4	53
112	Evaluation of a highly reactive and sulfur resistant synthetic Fe-based oxygen carrier for CLC using gaseous fuels. <i>Energy Procedia</i> , 2013, 37, 580-587.	1.8	4
113	Performance of a low Ni content oxygen carrier for fuel gas combustion in a continuous CLC unit using a CaO/Al ₂ O ₃ system as support. <i>International Journal of Greenhouse Gas Control</i> , 2013, 14, 209-219.	2.3	22
114	Modeling of Limestone Sulfation for Typical Oxy-Fuel Fluidized Bed Combustion Conditions. <i>Energy & Fuels</i> , 2013, 27, 2266-2274.	2.5	23
115	Fuel reactor model validation: Assessment of the key parameters affecting the chemical-looping combustion of coal. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 541-551.	2.3	59
116	Performance of a bauxite waste as oxygen-carrier for chemical-looping combustion using coal as fuel. <i>Fuel Processing Technology</i> , 2013, 109, 57-69.	3.7	62
117	Effects of Temperature and Flue Gas Recycle on the SO ₂ and NO _x Emissions in an Oxy-fuel Fluidized Bed Combustor. <i>Energy Procedia</i> , 2013, 37, 1275-1282.	1.8	29
118	Performance of CLOU process in the combustion of different types of coal with CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 430-440.	2.3	88
119	Optimization of H ₂ production with CO ₂ capture by steam reforming of methane integrated with a chemical-looping combustion system. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11878-11892.	3.8	34
120	Use of Chemical-Looping processes for coal combustion with CO ₂ capture. <i>Energy Procedia</i> , 2013, 37, 540-549.	1.8	41
121	Fuel reactor modelling in chemical-looping combustion of coal: 1. model formulation. <i>Chemical Engineering Science</i> , 2013, 87, 277-293.	1.9	104
122	Evaluation of the use of different coals in Chemical Looping Combustion using a bauxite waste as oxygen carrier. <i>Fuel</i> , 2013, 106, 814-826.	3.4	67
123	Biomass combustion in a CLC system using an iron ore as an oxygen carrier. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 322-330.	2.3	109
124	Fuel reactor modelling in chemical-looping combustion of coal: 2 nd simulation and optimization. <i>Chemical Engineering Science</i> , 2013, 87, 173-182.	1.9	67
125	Behaviour of a bauxite waste material as oxygen carrier in a 500Wth CLC unit with coal. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 170-182.	2.3	64
126	Pollutant emissions in a bubbling fluidized bed combustor working in oxy-fuel operating conditions: Effect of flue gas recirculation. <i>Applied Energy</i> , 2013, 102, 860-867.	5.1	61

#	ARTICLE	IF	CITATIONS
127	Catalytic Activity of Ni-Based Oxygen-Carriers for Steam Methane Reforming in Chemical-Looping Processes. <i>Energy & Fuels</i> , 2012, 26, 791-800.	2.5	89
128	Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> G-CLC Process with Coal. 1. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16216-16229.	1.8	77
129	Use of an Fe-Based Residue from Alumina Production as an Oxygen Carrier in Chemical-Looping Combustion. <i>Energy & Fuels</i> , 2012, 26, 1420-1431.	2.5	73
130	Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> G-CLC Process with Coal. 2. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16230-16241.	1.8	33
131	Evaluation of a Spray-Dried CuO/MgAl ₂ O ₄ Oxygen Carrier for the Chemical Looping with Oxygen Uncoupling Process. <i>Energy & Fuels</i> , 2012, 26, 3069-3081.	2.5	111
132	Effect of operating conditions in Chemical-Looping Combustion of coal in a 500Wth unit. <i>International Journal of Greenhouse Gas Control</i> , 2012, 6, 153-163.	2.3	84
133	Demonstration of chemical-looping with oxygen uncoupling (CLOU) process in a 1.5kWth continuously operating unit using a Cu-based oxygen-carrier. <i>International Journal of Greenhouse Gas Control</i> , 2012, 6, 189-200.	2.3	234
134	Effect of H ₂ S on the behaviour of an impregnated NiO-based oxygen-carrier for chemical-looping combustion (CLC). <i>Applied Catalysis B: Environmental</i> , 2012, 126, 186-199.	10.8	50
135	Identification of operational regions in the Chemical-Looping with Oxygen Uncoupling (CLOU) process with a Cu-based oxygen carrier. <i>Fuel</i> , 2012, 102, 634-645.	3.4	70
136	Reduction and oxidation kinetics of nickel-based oxygen-carriers for chemical-looping combustion and chemical-looping reforming. <i>Chemical Engineering Journal</i> , 2012, 188, 142-154.	6.6	163
137	Relevance of the coal rank on the performance of the in situ gasification chemical-looping combustion. <i>Chemical Engineering Journal</i> , 2012, 195-196, 91-102.	6.6	96
138	Development of Cu-based oxygen carriers for Chemical-Looping with Oxygen Uncoupling (CLOU) process. <i>Fuel</i> , 2012, 96, 226-238.	3.4	198
139	Prompt considerations on the design of Chemical-Looping Combustion of coal from experimental tests. <i>Fuel</i> , 2012, 97, 219-232.	3.4	69
140	Theoretical approach on the CLC performance with solid fuels: Optimizing the solids inventory. <i>Fuel</i> , 2012, 97, 536-551.	3.4	59
141	Behavior of ilmenite as oxygen carrier in chemical-looping combustion. <i>Fuel Processing Technology</i> , 2012, 94, 101-112.	3.7	210
142	Testing of a highly reactive impregnated Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier for a SR-CLC system in a continuous CLC unit. <i>Fuel Processing Technology</i> , 2012, 96, 37-47.	3.7	67
143	Effect of Fe-olivine on the tar content during biomass gasification in a dual fluidized bed. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 214-222.	10.8	163
144	Progress in Chemical-Looping Combustion and Reforming technologies. <i>Progress in Energy and Combustion Science</i> , 2012, 38, 215-282.	15.8	1,865

#	ARTICLE	IF	CITATIONS
145	Influence of Limestone Addition in a 10 kW _{th} Chemical-Looping Combustion Unit Operated with Petcoke. Energy & Fuels, 2011, 25, 4818-4828.	2.5	59
146	High temperature behaviour of a CuO/Al ₂ O ₃ oxygen carrier for chemical-looping combustion. International Journal of Greenhouse Gas Control, 2011, 5, 659-667.	2.3	104
147	Characterization of a limestone in a batch fluidized bed reactor for sulfur retention under oxy-fuel operating conditions. International Journal of Greenhouse Gas Control, 2011, 5, 1190-1198.	2.3	44
148	The use of ilmenite as oxygen-carrier in a 500W _{th} Chemical-Looping Coal Combustion unit. International Journal of Greenhouse Gas Control, 2011, 5, 1630-1642.	2.3	168
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