

Luis F De Diego

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

225
papers

14,306
citations

65
h-index

111
g-index

230
ext. papers

15,850
ext. citations

6.9
avg, IF

6.59
L-index

#	Paper	IF	Citations
225	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	7.1	0
224	Ca-based sorbents as precursors of oxygen carriers in chemical looping combustion of sulfurous fuels. <i>Fuel</i> , 2022 , 312, 122743	7.1	0
223	Effect of the Fe content on the behavior of synthetic oxygen carriers in a 1.5 kW biomass chemical looping gasification unit. <i>Fuel</i> , 2022 , 309, 122193	7.1	1
222	CFD Modelling of the Fuel Reactor of a Chemical Loping Combustion Plant to Be Used with Biomethane. <i>Processes</i> , 2022 , 10, 588	2.9	0
221	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	7.1	0
220	Iron-based oxygen carrier particles produced from micronized size minerals or industrial wastes. <i>Powder Technology</i> , 2021 , 396, 637-637	5.2	0
219	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> , 2021 , 133376	14.7	0
218	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	7.2	10
217	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	7.1	5
216	Optimization of synthesis gas production in the biomass chemical looping gasification process operating under auto-thermal conditions. <i>Energy</i> , 2021 , 226, 120317	7.9	7
215	Biomass chemical looping gasification for syngas production using ilmenite as oxygen carrier in a 1.5 kWth unit. <i>Chemical Engineering Journal</i> , 2021 , 405, 126679	14.7	33
214	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	7.2	8
213	Use of bio-glycerol for the production of synthesis gas by chemical looping reforming. <i>Fuel</i> , 2021 , 288, 119578	7.1	2
212	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	7.2	7
211	Syngas Production in a 1.5 kW Biomass Chemical Looping Gasification Unit Using Fe and Mn Ores as the Oxygen Carrier. <i>Energy & Fuels</i> , 2021 , 35, 17182-17196	4.1	4
210	Effect of the Presence of Siloxanes in Biogas Chemical Looping Combustion. <i>Energy & Fuels</i> , 2021 , 35, 14984-14994	4.1	2
209	Qualification of operating conditions to extend oxygen carrier utilization in the scaling up of chemical looping processes. <i>Chemical Engineering Journal</i> , 2021 , 132602	14.7	3

208	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, 7255-7268	3.9	12
207	Kinetics of CaMn _{0.775} Ti _{0.125} Mg _{0.1} O _{2.9} -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	14.7	12
206	Improving the oxygen demand in biomass CLC using manganese ores. <i>Fuel</i> , 2020 , 274, 117803	7.1	9
205	Biomass Chemical Looping Gasification of pine wood using a synthetic FeO/AlO oxygen carrier in a continuous unit. <i>Bioresource Technology</i> , 2020 , 316, 123908	11	31
204	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	7.2	22
203	Evaluation of different strategies to improve the efficiency of coal conversion in a 50kWth Chemical Looping combustion unit. <i>Fuel</i> , 2020 , 271, 117514	7.1	13
202	Thermochemical assessment of chemical looping assisted by oxygen uncoupling with a MnFe-based oxygen carrier. <i>Applied Energy</i> , 2019 , 251, 113340	10.7	15
201	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	10.7	21
200	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	7.1	8
199	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	3.9	8
198	Life cycle assessment of natural gas fuelled power plants based on chemical looping combustion technology. <i>Energy Conversion and Management</i> , 2019 , 198, 111856	10.6	12
197	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	7.1	19
196	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	5.9	7
195	Reduction and oxidation kinetics of Tierga iron ore for Chemical Looping Combustion with diverse fuels. <i>Chemical Engineering Journal</i> , 2019 , 359, 37-46	14.7	23
194	Chemical-looping combustion: Status and research needs. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 4303-4317	5.9	77
193	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	7.1	19
192	Development and validation of a 1D process model with autothermal operation of a 1 MW th chemical looping pilot plant. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 73, 29-41	4.2	13
191	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	7.2	21

190	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	10.6	44
189	Relevance of plant design on CLC process performance using a Cu-based oxygen carrier. <i>Fuel Processing Technology</i> , 2018 , 171, 78-88	7.2	16
188	Chemical looping combustion of solid fuels. <i>Progress in Energy and Combustion Science</i> , 2018 , 65, 6-66	33.6	305
187	Chemical looping combustion of biomass: CLOU experiments with a Cu-Mn mixed oxide. <i>Fuel Processing Technology</i> , 2018 , 172, 179-186	7.2	51
186	Chemical Looping Combustion of different types of biomass in a 0.5 kWth unit. <i>Fuel</i> , 2018 , 211, 868-875	7.1	51
185	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	7.2	14
184	Chemical-Looping Combustion of Kerosene and Gaseous Fuels with a Natural and a Manufactured MnFe-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2018 , 32, 8803-8816	4.1	19
183	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	7.1	23
182	Extension and evaluation of a macroscopic model for syngas-fueled chemical looping combustion. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 133, 106-116	3.7	6
181	Negative CO ₂ emissions through the use of biofuels in chemical looping technology: A review. <i>Applied Energy</i> , 2018 , 232, 657-684	10.7	93
180	Mn-based oxygen carriers prepared by impregnation for Chemical Looping Combustion with diverse fuels. <i>Fuel Processing Technology</i> , 2018 , 178, 236-250	7.2	28
179	Autothermal chemical looping reforming process of different fossil liquid fuels. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13633-13640	6.7	21
178	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	7.1	39
177	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	7.2	26
176	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	14.7	24
175	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). <i>Fuel Processing Technology</i> , 2017 , 164, 69-79	7.2	32
174	In situ gasification Chemical-Looping Combustion of coal using limestone as oxygen carrier precursor and sulphur sorbent. <i>Chemical Engineering Journal</i> , 2017 , 310, 226-239	14.7	38
173	Coal combustion with a spray granulated Cu-Mn mixed oxide for the Chemical Looping with Oxygen Uncoupling (CLOU) process. <i>Applied Energy</i> , 2017 , 208, 561-570	10.7	16

172	Mercury emissions from coal combustion in fluidized beds under oxy-fuel and air conditions: Influence of coal characteristics and O ₂ concentration. <i>Fuel Processing Technology</i> , 2017 , 167, 695-701	7.2	6
171	Spray granulated Cu-Mn oxygen carrier for chemical looping with oxygen uncoupling (CLOU) process. <i>International Journal of Greenhouse Gas Control</i> , 2017 , 65, 76-85	4.2	17
170	Combustion and Reforming of Liquid Fossil Fuels through Chemical Looping Processes: Integration of Chemical Looping Processes in a Refinery. <i>Energy Procedia</i> , 2017 , 114, 325-333	2.3	10
169	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. <i>Energy Procedia</i> , 2017 , 114, 285-301	2.3	22
168	Chemical Looping Combustion of Biomass: An Approach to BECCS. <i>Energy Procedia</i> , 2017 , 114, 6021-6029	2.3	14
167	Promising Impregnated Mn-based Oxygen Carriers for Chemical Looping Combustion of Gaseous Fuels. <i>Energy Procedia</i> , 2017 , 114, 334-343	2.3	10
166	Evaluation of (Mn _x Fe _{1-x}) ₂ TiO ₃ Particles as Oxygen Carrier for Chemical Looping Combustion. <i>Energy Procedia</i> , 2017 , 114, 302-308	2.3	4
165	Mercury capture by a structured Au/C regenerable sorbent under oxycoal combustion representative and real conditions. <i>Fuel</i> , 2017 , 207, 821-829	7.1	16
164	Use of Hopcalite-Derived Cu/Mn Mixed Oxide as Oxygen Carrier for Chemical Looping with Oxygen Uncoupling Process. <i>Energy & Fuels</i> , 2016 , 30, 5953-5963	4.1	19
163	Sulphuric acid production via Chemical Looping Combustion of elemental sulphur. <i>Applied Energy</i> , 2016 , 178, 736-745	10.7	25
162	Coal combustion in a 50kWth Chemical Looping Combustion unit: Seeking operating conditions to maximize CO ₂ capture and combustion efficiency. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 50, 80-92	4.2	56
161	Tar abatement in a fixed bed catalytic filter candle during biomass gasification in a dual fluidized bed. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 198-206	21.8	25
160	Optimization of hydrogen production with CO ₂ capture by autothermal chemical-looping reforming using different bioethanol purities. <i>Applied Energy</i> , 2016 , 169, 491-498	10.7	27
159	Sulphur, nitrogen and mercury emissions from coal combustion with CO ₂ capture in chemical looping with oxygen uncoupling (CLOU). <i>International Journal of Greenhouse Gas Control</i> , 2016 , 46, 28-38	4.2	39
158	The fate of mercury in fluidized beds under oxy-fuel combustion conditions. <i>Fuel</i> , 2016 , 167, 75-81	7.1	16
157	Bioethanol combustion with CO ₂ capture in a 1 kWth Chemical Looping Combustion prototype: Suitability of the oxygen carrier. <i>Chemical Engineering Journal</i> , 2016 , 283, 1405-1413	14.7	19
156	Tar abatement for clean syngas production during biomass gasification in a dual fluidized bed. <i>Fuel Processing Technology</i> , 2016 , 152, 116-123	7.2	29
155	Process Comparison for Biomass Combustion: In Situ Gasification-Chemical Looping Combustion (iG-CLC) versus Chemical Looping with Oxygen Uncoupling (CLOU). <i>Energy Technology</i> , 2016 , 4, 1130-1136	3.5	38

154	On the attrition evaluation of oxygen carriers in Chemical Looping Combustion. <i>Fuel Processing Technology</i> , 2016 , 148, 188-197	7.2	73
153	Manganese Minerals as Oxygen Carriers for Chemical Looping Combustion of Coal. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 6539-6546	3.9	33
152	Long-lasting Cu-based oxygen carrier material for industrial scale in Chemical Looping Combustion. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 52, 120-129	4.2	44
151	Design and operation of a 50 kWth Chemical Looping Combustion (CLC) unit for solid fuels. <i>Applied Energy</i> , 2015 , 157, 295-303	10.7	69
150	Conceptual design of a 100 MWth CLC unit for solid fuel combustion. <i>Applied Energy</i> , 2015 , 157, 462-474	10.7	44
149	Performance of a low-cost iron ore as an oxygen carrier for Chemical Looping Combustion of gaseous fuels. <i>Chemical Engineering Research and Design</i> , 2015 , 93, 736-746	5.5	32
148	NO and N ₂ O emissions in oxy-fuel combustion of coal in a bubbling fluidized bed combustor. <i>Fuel</i> , 2015 , 150, 146-153	7.1	44
147	Syngas/H ₂ production from bioethanol in a continuous chemical-looping reforming prototype. <i>Fuel Processing Technology</i> , 2015 , 137, 24-30	7.2	29
146	Morphological analysis of sulfated Ca-based sorbents under conditions corresponding to oxy-fuel fluidized bed combustion. <i>Fuel</i> , 2015 , 162, 264-270	7.1	7
145	Evaluation of Manganese Minerals for Chemical Looping Combustion. <i>Energy & Fuels</i> , 2015 , 29, 6605-6615	4.6	48
144	Characterization for disposal of Fe-based oxygen carriers from a CLC unit burning coal. <i>Fuel Processing Technology</i> , 2015 , 138, 750-757	7.2	16
143	Characterization of a sol-gel derived CuO/CuAl ₂ O ₄ oxygen carrier for chemical looping combustion (CLC) of gaseous fuels: Relevance of gas-solid and oxygen uncoupling reactions. <i>Fuel Processing Technology</i> , 2015 , 133, 210-219	7.2	42
142	Redox kinetics of CaMg _{0.1} Ti _{0.125} Mn _{0.775} O _{2.9} for Chemical Looping Combustion (CLC) and Chemical Looping with Oxygen Uncoupling (CLOU). <i>Chemical Engineering Journal</i> , 2015 , 269, 67-81	14.7	48
141	The fate of sulphur in the Cu-based Chemical Looping with Oxygen Uncoupling (CLOU) Process. <i>Applied Energy</i> , 2014 , 113, 1855-1862	10.7	58
140	Performance of a highly reactive impregnated Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier with CH ₄ and H ₂ S in a 500Wth CLC unit. <i>Fuel</i> , 2014 , 121, 117-125	7.1	85
139	Kinetic determination of a highly reactive impregnated Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier for use in gas-fueled Chemical Looping Combustion. <i>Chemical Engineering Journal</i> , 2014 , 258, 265-280	14.7	77
138	Mercury Release and Speciation in Chemical Looping Combustion of Coal. <i>Energy & Fuels</i> , 2014 , 28, 2786-2794	4.1	26
137	Energy exploitation of acid gas with high H ₂ S content by means of a chemical looping combustion system. <i>Applied Energy</i> , 2014 , 136, 242-249	10.7	23

136	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). <i>Chemical Engineering Journal</i> , 2014 , 256, 69-84	14.7	82
135	Performance of Cu- and Fe-based oxygen carriers in a 500 W th CLC unit for sour gas combustion with high H ₂ S content. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 28, 168-179	4.2	46
134	Reduction and Oxidation Kinetics of a CaMn _{0.9} Mg _{0.1} O ₃ Oxygen Carrier for Chemical-Looping Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 87-103	3.9	62
133	Biomass combustion with CO ₂ capture by chemical looping with oxygen uncoupling (CLOU). <i>Fuel Processing Technology</i> , 2014 , 124, 104-114	7.2	102
132	Sulfur retention in an oxy-fuel bubbling fluidized bed combustor: Effect of coal rank, type of sorbent and O ₂ /CO ₂ ratio. <i>Fuel</i> , 2014 , 137, 384-392	7.1	26
131	Effect of Operating Conditions and H ₂ S Presence on the Performance of CaMg _{0.1} Mn _{0.9} O ₃ Perovskite Material in Chemical Looping Combustion (CLC). <i>Energy & Fuels</i> , 2014 , 28, 1262-1274	4.1	45
130	On the use of a highly reactive iron ore in Chemical Looping Combustion of different coals. <i>Fuel</i> , 2014 , 126, 239-249	7.1	86
129	Release of pollutant components in CLC of lignite. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 22, 15-24	4.2	54
128	Relevance of the catalytic activity on the performance of a NiO/CaAl ₂ O ₄ oxygen carrier in a CLC process. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 980-987	21.8	29
127	Combustion and Reforming of Ethanol in a Chemical Looping Continuous Unit. <i>Energy Procedia</i> , 2014 , 63, 53-62	2.3	8
126	Design and Operation of a Coal-fired 50 kWth Chemical Looping Combustor. <i>Energy Procedia</i> , 2014 , 63, 63-72	2.3	27
125	On a Highly Reactive Fe ₂ O ₃ /Al ₂ O ₃ Oxygen Carrier for in Situ Gasification Chemical Looping Combustion. <i>Energy & Fuels</i> , 2014 , 28, 7043-7052	4.1	33
124	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	14.7	66
123	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	7.2	36
122	Optimum temperature for sulphur retention in fluidised beds working under oxy-fuel combustion conditions. <i>Fuel</i> , 2013 , 114, 106-113	7.1	49
121	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	2.3	4
120	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	4.2	20
119	Modeling of Limestone Sulfation for Typical Oxy-Fuel Fluidized Bed Combustion Conditions. <i>Energy & Fuels</i> , 2013 , 27, 2266-2274	4.1	19

118	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	4.2	50
117	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	7.2	57
116	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	2.3	23
115	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	4.2	80
114	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	6.7	28
113	Use of Chemical-Looping processes for coal combustion with CO ₂ capture. <i>Energy Procedia</i> , 2013 , 37, 540-549	2.3	35
112	Fuel reactor modelling in chemical-looping combustion of coal: 1. model formulation. <i>Chemical Engineering Science</i> , 2013 , 87, 277-293	4.4	98
111	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	7.1	60
110	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	4.2	83
109	Fuel reactor modelling in chemical-looping combustion of coal: 2. Simulation and optimization. <i>Chemical Engineering Science</i> , 2013 , 87, 173-182	4.4	64
108	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	4.2	54
107	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	10.7	54
106	Investigation of Combined Supports for Cu-Based Oxygen Carriers for Chemical-Looping with Oxygen Uncoupling (CLOU). <i>Energy & Fuels</i> , 2013 , 27, 3918-3927	4.1	54
105	Progress in Chemical-Looping Combustion and Reforming technologies. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 215-282	33.6	1554
104	Catalytic Activity of Ni-Based Oxygen-Carriers for Steam Methane Reforming in Chemical-Looping Processes. <i>Energy & Fuels</i> , 2012 , 26, 791-800	4.1	76
103	Low-Cost Fe-Based Oxygen Carrier Materials for the iG-CLC Process with Coal. 1. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16216-16229	3.9	66
102	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	4.1	67
101	Low-Cost Fe-Based Oxygen Carrier Materials for the iG-CLC Process with Coal. 2. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16230-16241	3.9	31

100	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	4.1	98
99	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	4.2	78
98	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	4.2	206
97	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	21.8	41
96	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	7.1	69
95	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	14.7	142
94	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	14.7	86
93	Development of Cu-based oxygen carriers for Chemical-Looping with Oxygen Uncoupling (CLOU) process. <i>Fuel</i> , 2012 , 96, 226-238	7.1	168
92	Prompt considerations on the design of Chemical-Looping Combustion of coal from experimental tests. <i>Fuel</i> , 2012 , 97, 219-232	7.1	64
91	Theoretical approach on the CLC performance with solid fuels: Optimizing the solids inventory. <i>Fuel</i> , 2012 , 97, 536-551	7.1	57
90	Behavior of ilmenite as oxygen carrier in chemical-looping combustion. <i>Fuel Processing Technology</i> , 2012 , 94, 101-112	7.2	179
89	Testing of a highly reactive impregnated Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier for a SRCLC system in a continuous CLC unit. <i>Fuel Processing Technology</i> , 2012 , 96, 37-47	7.2	59
88	Effect of Fe-blivine on the tar content during biomass gasification in a dual fluidized bed. <i>Applied Catalysis B: Environmental</i> , 2012 , 121-122, 214-222	21.8	131
87	High temperature behaviour of a CuO/Al ₂ O ₃ oxygen carrier for chemical-looping combustion. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 659-667	4.2	85
86	Characterization of a limestone in a batch fluidized bed reactor for sulfur retention under oxy-fuel operating conditions. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 1190-1198	4.2	41
85	The use of ilmenite as oxygen-carrier in a 500 Wth Chemical-Looping Coal Combustion unit. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 1630-1642	4.2	159
84	Effect of Support on the Behavior of Cu-Based Oxygen Carriers during Long-Term CLC Operation at Temperatures above 1073 K. <i>Energy & Fuels</i> , 2011 , 25, 1316-1326	4.1	84
83	Optimization of hydrogen production by Chemical-Looping auto-thermal Reforming working with Ni-based oxygen-carriers. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9663-9672	6.7	86

82	Hydrogen production with CO ₂ capture by coupling steam reforming of methane and chemical-looping combustion: Use of an iron-based waste product as oxygen carrier burning a PSA tail gas. <i>Journal of Power Sources</i> , 2011 , 196, 4370-4381	8.9	87
81	Kinetics of redox reactions of ilmenite for chemical-looping combustion. <i>Chemical Engineering Science</i> , 2011 , 66, 689-702	4.4	220
80	Influence of Limestone Addition in a 10 kWth Chemical-Looping Combustion Unit Operated with Petcoke. <i>Energy & Fuels</i> , 2011 , 25, 4818-4828	4.1	55
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