Juan Adanez

List of Publications by Year in descending order

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13865 17592 17,200 240 67 121 citations h-index g-index papers 242 242 242 3888 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Progress in Chemical-Looping Combustion and Reforming technologies. Progress in Energy and Combustion Science, 2012, 38, 215-282. | 31.2 | 1,865 |
| 2 | Selection of Oxygen Carriers for Chemical-Looping Combustion. Energy & Ener | 5.1 | 646 |
| 3 | Mapping of the range of operational conditions for Cu-, Fe-, and Ni-based oxygen carriers in chemical-looping combustion. Chemical Engineering Science, 2007, 62, 533-549. | 3.8 | 546 |
| 4 | Chemical looping combustion of solid fuels. Progress in Energy and Combustion Science, 2018, 65, 6-66. | 31.2 | 433 |
| 5 | Development of Cu-based oxygen carriers for chemical-looping combustion. Fuel, 2004, 83, 1749-1757. | 6.4 | 335 |
| 6 | Ilmenite Activation during Consecutive Redox Cycles in Chemical-Looping Combustion. Energy & Energy & Fuels, 2010, 24, 1402-1413. | 5.1 | 277 |
| 7 | Kinetics of redox reactions of ilmenite for chemical-looping combustion. Chemical Engineering Science, 2011, 66, 689-702. | 3.8 | 274 |
| 8 | Chemical Looping Combustion in a 10 kWth Prototype Using a CuO/Al2O3 Oxygen Carrier:  Effect of Operating Conditions on Methane Combustion. Industrial & Engineering Chemistry Research, 2006, 45, 6075-6080. | 3.7 | 270 |
| 9 | Operation of a 10kWth chemical-looping combustor during 200h with a CuO–Al2O3 oxygen carrier. Fuel, 2007, 86, 1036-1045. | 6.4 | 261 |
| 10 | Calcination of calcium-based sorbents at pressure in a broad range of CO2 concentrations. Chemical Engineering Science, 2002, 57, 2381-2393. | 3.8 | 241 |
| 11 | Demonstration of chemical-looping with oxygen uncoupling (CLOU) process in a 1.5kWth continuously operating unit using a Cu-based oxygen-carrier. International Journal of Greenhouse Gas Control, 2012, 6, 189-200. | 4.6 | 234 |
| 12 | Impregnated CuO/Al2O3Oxygen Carriers for Chemical-Looping Combustion:  Avoiding Fluidized Bed Agglomeration. Energy & Fuels, 2005, 19, 1850-1856. | 5.1 | 226 |
| 13 | Reduction Kinetics of Cu-, Ni-, and Fe-Based Oxygen Carriers Using Syngas (CO + H2) for Chemical-Looping Combustion. Energy & Fuels, 2007, 21, 1843-1853. | 5.1 | 217 |
| 14 | Effect of Pressure on the Behavior of Copper-, Iron-, and Nickel-Based Oxygen Carriers for Chemical-Looping Combustion. Energy & Energy & 2006, 20, 26-33. | 5.1 | 214 |
| 15 | Reduction and Oxidation Kinetics of a Copper-Based Oxygen Carrier Prepared by Impregnation for Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2004, 43, 8168-8177. | 3.7 | 210 |
| 16 | Behavior of ilmenite as oxygen carrier in chemical-looping combustion. Fuel Processing Technology, 2012, 94, 101-112. | 7.2 | 210 |
| 17 | Development of Cu-based oxygen carriers for Chemical-Looping with Oxygen Uncoupling (CLOU) process. Fuel, 2012, 96, 226-238. | 6.4 | 198 |
| 18 | Hydrogen production by chemical-looping reforming in a circulating fluidized bed reactor using Ni-based oxygen carriers. Journal of Power Sources, 2009, 192, 27-34. | 7.8 | 171 |

| # | Article | IF | CITATIONS |
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| 19 | The use of ilmenite as oxygen-carrier in a 500Wth Chemical-Looping Coal Combustion unit. International Journal of Greenhouse Gas Control, 2011, 5, 1630-1642. | 4.6 | 168 |
| 20 | Negative CO2 emissions through the use of biofuels in chemical looping technology: A review. Applied Energy, 2018, 232, 657-684. | 10.1 | 166 |
| 21 | Reduction and oxidation kinetics of nickel-based oxygen-carriers for chemical-looping combustion and chemical-looping reforming. Chemical Engineering Journal, 2012, 188, 142-154. | 12.7 | 163 |
| 22 | Effect of Fe–olivine on the tar content during biomass gasification in a dual fluidized bed. Applied Catalysis B: Environmental, 2012, 121-122, 214-222. | 20.2 | 163 |
| 23 | Effect of support on reactivity and selectivity of Ni-based oxygen carriers for chemical-looping combustion. Fuel, 2008, 87, 2641-2650. | 6.4 | 152 |
| 24 | Synthesis gas generation by chemical-looping reforming in a batch fluidized bed reactor using Ni-based oxygen carriers. Chemical Engineering Journal, 2008, 144, 289-298. | 12.7 | 146 |
| 25 | Chemical-looping combustion: Status and research needs. Proceedings of the Combustion Institute, 2019, 37, 4303-4317. | 3.9 | 141 |
| 26 | Chemical-looping combustion using syngas as fuel. International Journal of Greenhouse Gas Control, 2007, 1, 158-169. | 4.6 | 139 |
| 27 | Temperature variations in the oxygen carrier particles during their reduction and oxidation in a chemical-looping combustion system. Chemical Engineering Science, 2005, 60, 851-862. | 3.8 | 138 |
| 28 | Methane Combustion in a 500 W _{th} Chemical-Looping Combustion System Using an Impregnated Ni-Based Oxygen Carrier. Energy & Samp; Fuels, 2009, 23, 130-142. | 5.1 | 134 |
| 29 | Biomass combustion with CO2 capture by chemical looping with oxygen uncoupling (CLOU). Fuel Processing Technology, 2014, 124, 104-114. | 7.2 | 129 |
| 30 | Modeling of the chemical-looping combustion of methane using a Cu-based oxygen-carrier. Combustion and Flame, 2010, 157, 602-615. | 5.2 | 118 |
| 31 | Hydrogen production by auto-thermal chemical-looping reforming in a pressurized fluidized bed reactor using Ni-based oxygen carriers. International Journal of Hydrogen Energy, 2010, 35, 151-160. | 7.1 | 117 |
| 32 | Syngas combustion in a 500ÂWth Chemical-Looping Combustion system using an impregnated Cu-based oxygen carrier. Fuel Processing Technology, 2009, 90, 1471-1479. | 7.2 | 113 |
| 33 | Evaluation of a Spray-Dried CuO/MgAl ₂ O ₄ Oxygen Carrier for the Chemical Looping with Oxygen Uncoupling Process. Energy & Days 1. | 5.1 | 111 |
| 34 | Biomass combustion in a CLC system using an iron ore as an oxygen carrier. International Journal of Greenhouse Gas Control, 2013, 19, 322-330. | 4.6 | 109 |
| 35 | NiO/Al2O3 oxygen carriers for chemical-looping combustion prepared by impregnation and deposition–precipitation methods. Fuel, 2009, 88, 1016-1023. | 6.4 | 108 |
| 36 | High temperature behaviour of a CuO \hat{l}^3 Al2O3 oxygen carrier for chemical-looping combustion. International Journal of Greenhouse Gas Control, 2011, 5, 659-667. | 4.6 | 104 |

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| 37 | Fuel reactor modelling in chemical-looping combustion of coal: 1. model formulation. Chemical Engineering Science, 2013, 87, 277-293. | 3.8 | 104 |
| 38 | Kinetic determination of a highly reactive impregnated Fe2O3/Al2O3 oxygen carrier for use in gas-fueled Chemical Looping Combustion. Chemical Engineering Journal, 2014, 258, 265-280. | 12.7 | 103 |
| 39 | Nickelâ~'Copper Oxygen Carriers To Reach Zero CO and H2Emissions in Chemical-Looping Combustion. Industrial & Description of the Computation of th | 3.7 | 102 |
| 40 | On the attrition evaluation of oxygen carriers in Chemical Looping Combustion. Fuel Processing Technology, 2016, 148, 188-197. | 7.2 | 102 |
| 41 | Optimization of hydrogen production by Chemical-Looping auto-thermal Reforming working with Ni-based oxygen-carriers. International Journal of Hydrogen Energy, 2011, 36, 9663-9672. | 7.1 | 100 |
| 42 | Effect of Fuel Gas Composition in Chemical-Looping Combustion with Ni-Based Oxygen Carriers. 1. Fate of Sulfur. Industrial & Carriers amp; Engineering Chemistry Research, 2009, 48, 2499-2508. | 3.7 | 99 |
| 43 | Performance of a highly reactive impregnated Fe2O3/Al2O3 oxygen carrier with CH4 and H2S in a 500Wth CLC unit. Fuel, 2014, 121, 117-125. | 6.4 | 99 |
| 44 | Effect of gas composition in Chemical-Looping Combustion with copper-based oxygen carriers: Fate of sulphur. International Journal of Greenhouse Gas Control, 2010, 4, 762-770. | 4.6 | 98 |
| 45 | Hydrogen production with CO2 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. Journal of Power Sources, 2011, 196, 4370-4381. | 7.8 | 97 |
| 46 | Syngas combustion in a chemical-looping combustion system using an impregnated Ni-based oxygen carrier. Fuel, 2009, 88, 2357-2364. | 6.4 | 96 |
| 47 | Relevance of the coal rank on the performance of the in situ gasification chemical-looping combustion. Chemical Engineering Journal, 2012, 195-196, 91-102. | 12.7 | 96 |
| 48 | 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. | 12.7 | 96 |
| 49 | On the use of a highly reactive iron ore in Chemical Looping Combustion of different coals. Fuel, 2014, 126, 239-249. | 6.4 | 95 |
| 50 | Catalytic Activity of Ni-Based Oxygen-Carriers for Steam Methane Reforming in Chemical-Looping Processes. Energy & Steam, Fuels, 2012, 26, 791-800. | 5.1 | 89 |
| 51 | Reactivity of a NiO/Al2O3 oxygen carrier prepared by impregnation for chemical-looping combustion. Fuel, 2010, 89, 3399-3409. | 6.4 | 88 |
| 52 | Performance of CLOU process in the combustion of different types of coal with CO2 capture. International Journal of Greenhouse Gas Control, 2013, 12, 430-440. | 4.6 | 88 |
| 53 | The Performance in a Fixed Bed Reactor of Copper-Based Oxides on Titania as Oxygen Carriers for Chemical Looping Combustion of Methane. Energy & Energy & 2005, 19, 433-441. | 5.1 | 85 |
| 54 | Design and operation of a 50 kWth Chemical Looping Combustion (CLC) unit for solid fuels. Applied Energy, 2015, 157, 295-303. | 10.1 | 85 |

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| 55 | Effect of operating conditions in Chemical-Looping Combustion of coal in a 500Wth unit. International Journal of Greenhouse Gas Control, 2012, 6, 153-163. | 4.6 | 84 |
| 56 | Biomass chemical looping gasification for syngas production using ilmenite as oxygen carrier in a 1.5 kWth unit. Chemical Engineering Journal, 2021, 405, 126679. | 12.7 | 84 |
| 57 | Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> or CLC Process with Coal. 1. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> | 3.7 | 77 |
| 58 | Assessment of technological solutions for improving chemical looping combustion of solid fuels with CO2 capture. Chemical Engineering Journal, 2013, 233, 56-69. | 12.7 | 76 |
| 59 | Circulating fluidised bed co-combustion of coal and biomass. Fuel, 2004, 83, 277-286. | 6.4 | 75 |
| 60 | Use of an Fe-Based Residue from Alumina Production as an Oxygen Carrier in Chemical-Looping Combustion. Energy & Energy & 2012, 26, 1420-1431. | 5.1 | 73 |
| 61 | Development of CuO-based oxygen-carrier materials suitable for Chemical-Looping with Oxygen Uncoupling (CLOU) process. Energy Procedia, 2011, 4, 417-424. | 1.8 | 72 |
| 62 | Chemical Looping Combustion of different types of biomass in a 0.5 kWth unit. Fuel, 2018, 211, 868-875. | 6.4 | 72 |
| 63 | Identification of operational regions in the Chemical-Looping with Oxygen Uncoupling (CLOU) process with a Cu-based oxygen carrier. Fuel, 2012, 102, 634-645. | 6.4 | 70 |
| 64 | Reduction and Oxidation Kinetics of a CaMn _{0.9} Mg _{0.1} O _{3â^Î} Oxygen Carrier for Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2014, 53, 87-103. | 3.7 | 70 |
| 65 | Prompt considerations on the design of Chemical-Looping Combustion of coal from experimental tests. Fuel, 2012, 97, 219-232. | 6.4 | 69 |
| 66 | 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. | 4.6 | 69 |
| 67 | Characterization and Performance in a Multicycle Test in a Fixed-Bed Reactor of Silica-Supported Copper Oxide as Oxygen Carrier for Chemical-Looping Combustion of Methane. Energy & Dyserved Supported 2006, 20, 148-154. | 5.1 | 68 |
| 68 | Testing of a highly reactive impregnated Fe2O3/Al2O3 oxygen carrier for a SR–CLC system in a continuous CLC unit. Fuel Processing Technology, 2012, 96, 37-47. | 7.2 | 67 |
| 69 | Evaluation of the use of different coals in Chemical Looping Combustion using a bauxite waste as oxygen carrier. Fuel, 2013, 106, 814-826. | 6.4 | 67 |
| 70 | Fuel reactor modelling in chemical-looping combustion of coal: 2â€"simulation and optimization. Chemical Engineering Science, 2013, 87, 173-182. | 3.8 | 67 |
| 71 | The fate of sulphur in the Cu-based Chemical Looping with Oxygen Uncoupling (CLOU) Process. Applied Energy, 2014, 113, 1855-1862. | 10.1 | 66 |
| 72 | Release of pollutant components in CLC of lignite. International Journal of Greenhouse Gas Control, 2014, 22, 15-24. | 4.6 | 65 |

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| 73 | Biomass Chemical Looping Gasification of pine wood using a synthetic Fe2O3/Al2O3 oxygen carrier in a continuous unit. Bioresource Technology, 2020, 316, 123908. | 9.6 | 65 |
| 74 | Behaviour of a bauxite waste material as oxygen carrier in a 500Wth CLC unit with coal. International Journal of Greenhouse Gas Control, 2013, 17, 170-182. | 4.6 | 64 |
| 75 | 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. International Journal of Greenhouse Gas Control, 2014, 28, 168-179. | 4.6 | 64 |
| 76 | Calcium-based sorbents behaviour during sulphation at oxy-fuel fluidised bed combustion conditions. Fuel, 2011, 90, 3100-3108. | 6.4 | 63 |
| 77 | Determination of Biomass Char Combustion Reactivities for FBC Applications by a Combined Method. Industrial & Determination of Biomass Chemistry Research, 2001, 40, 4317-4323. | 3.7 | 62 |
| 78 | The grace projectDevelopment of oxygen carrier particles for chemical-looping combustion. Design and operation of a 10 kW chemical-looping combustor., 2005,, 115-123. | | 62 |
| 79 | Performance of a bauxite waste as oxygen-carrier for chemical-looping combustion using coal as fuel. Fuel Processing Technology, 2013, 109, 57-69. | 7.2 | 62 |
| 80 | Pollutant emissions in a bubbling fluidized bed combustor working in oxy-fuel operating conditions: Effect of flue gas recirculation. Applied Energy, 2013, 102, 860-867. | 10.1 | 61 |
| 81 | Redox kinetics of CaMg0.1Ti0.125Mn0.775O2.9â^Î for Chemical Looping Combustion (CLC) and Chemical Looping with Oxygen Uncoupling (CLOU). Chemical Engineering Journal, 2015, 269, 67-81. | 12.7 | 61 |
| 82 | Conceptual design of a 100 MWth CLC unit for solid fuel combustion. Applied Energy, 2015, 157, 462-474. | 10.1 | 61 |
| 83 | Chemical Looping Combustion of gaseous and solid fuels with manganese-iron mixed oxide as oxygen carrier. Energy Conversion and Management, 2018, 159, 221-231. | 9.2 | 61 |
| 84 | Chemical looping combustion of biomass: CLOU experiments with a Cu-Mn mixed oxide. Fuel Processing Technology, 2018, 172, 179-186. | 7.2 | 61 |
| 85 | Circulating fluidized bed combustion in the turbulent regime: modelling of carbon combustion efficiency and sulphur retention. Fuel, 2001, 80, 1405-1414. | 6.4 | 60 |
| 86 | Long-lasting Cu-based oxygen carrier material for industrial scale in Chemical Looping Combustion. International Journal of Greenhouse Gas Control, 2016, 52, 120-129. | 4.6 | 60 |
| 87 | Influence of Limestone Addition in a 10 kW _{th} Chemical-Looping Combustion Unit Operated with Petcoke. Energy & Samp; Fuels, 2011, 25, 4818-4828. | 5.1 | 59 |
| 88 | Theoretical approach on the CLC performance with solid fuels: Optimizing the solids inventory. Fuel, 2012, 97, 536-551. | 6.4 | 59 |
| 89 | Fuel reactor model validation: Assessment of the key parameters affecting the chemical-looping combustion of coal. International Journal of Greenhouse Gas Control, 2013, 19, 541-551. | 4.6 | 59 |
| 90 | Axial voidage profiles in fast fluidized beds. Powder Technology, 1994, 81, 259-268. | 4.2 | 58 |

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| 91 | Characterization Study and Five-Cycle Tests in a Fixed-Bed Reactor of Titania-Supported Nickel Oxide as Oxygen Carriers for the Chemical-Looping Combustion of Methane. Environmental Science & Emp; Technology, 2005, 39, 5796-5803. | 10.0 | 57 |
| 92 | Transport velocities of coal and sand particles. Powder Technology, 1993, 77, 61-68. | 4.2 | 56 |
| 93 | Titanium substituted manganese-ferrite as an oxygen carrier with permanent magnetic properties for chemical looping combustion of solid fuels. Fuel, 2017, 195, 38-48. | 6.4 | 56 |
| 94 | 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. | 4.6 | 55 |
| 95 | Effect of Operating Conditions and H ₂ S Presence on the Performance of CaMg _{0.1} Mn _{0.9} O _{3â^Î} Perovskite Material in Chemical Looping Combustion (CLC). Energy & Description (CLC). | 5.1 | 54 |
| 96 | NO and N $_2$ O emissions in oxy-fuel combustion of coal in a bubbling fluidized bed combustor. Fuel, 2015, 150, 146-153. | 6.4 | 54 |
| 97 | Evaluation of Manganese Minerals for Chemical Looping Combustion. Energy & Evaluation & Evaluati | 5.1 | 54 |
| 98 | Optimum temperature for sulphur retention in fluidised beds working under oxy-fuel combustion conditions. Fuel, 2013, 114, 106-113. | 6.4 | 53 |
| 99 | Calcination of calcium acetate and calcium magnesium acetate: effect of the reacting atmosphere. Fuel, 1999, 78, 583-592. | 6.4 | 51 |
| 100 | Study of modified calcium hydroxides for enhancing SO2 removal during sorbent injection in pulverized coal boilers. Fuel, 1997, 76, 257-265. | 6.4 | 50 |
| 101 | Effect of H2S on the behaviour of an impregnated NiO-based oxygen-carrier for chemical-looping combustion (CLC). Applied Catalysis B: Environmental, 2012, 126, 186-199. | 20.2 | 50 |
| 102 | Innovative Oxygen Carriers Uplifting Chemical-looping Combustion. Energy Procedia, 2014, 63, 113-130. | 1.8 | 50 |
| 103 | Process Comparison for Biomass Combustion: Inâ€Situ Gasificationâ€Chemical Looping Combustion (iGâ€CLC) versus Chemical Looping with Oxygen Uncoupling (CLOU). Energy Technology, 2016, 4, 1130-1136. | 3.8 | 50 |
| 104 | Modeling of the Devolatilization of Nonspherical Wet Pine Wood Particles in Fluidized Beds. Industrial & Samp; Engineering Chemistry Research, 2002, 41, 3642-3650. | 3.7 | 49 |
| 105 | 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. | 7.2 | 49 |
| 106 | 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. | 5.6 | 49 |
| 107 | Radial gas mixing in a fast fluidized bed. Powder Technology, 1997, 94, 163-171. | 4.2 | 46 |
| 108 | Effect of gas composition in Chemical-Looping Combustion with copper-based oxygen carriers: Fate of light hydrocarbons. International Journal of Greenhouse Gas Control, 2010, 4, 13-22. | 4.6 | 46 |

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| 109 | Synthesis gas generation by chemical-looping reforming using a Nibased oxygen carrier. Energy Procedia, 2009, 1, 3-10. | 1.8 | 45 |
| 110 | In situ gasification Chemical-Looping Combustion of coal using limestone as oxygen carrier precursor and sulphur sorbent. Chemical Engineering Journal, 2017, 310, 226-239. | 12.7 | 45 |
| 111 | Kinetics of a lignite-char gasification by CO2. Fuel, 1985, 64, 801-804. | 6.4 | 44 |
| 112 | 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. | 4.6 | 44 |
| 113 | Use of chemically and physically mixed iron and nickel oxides as oxygen carriers for gas combustion in a CLC process. Fuel Processing Technology, 2013, 115, 152-163. | 7.2 | 44 |
| 114 | Mn-based oxygen carriers prepared by impregnation for Chemical Looping Combustion with diverse fuels. Fuel Processing Technology, 2018, 178, 236-250. | 7.2 | 44 |
| 115 | Effect of Fuel Gas Composition in Chemical-Looping Combustion with Ni-Based Oxygen Carriers. 2. Fate of Light Hydrocarbons. Industrial & Engineering Chemistry Research, 2009, 48, 2509-2518. | 3.7 | 43 |
| 116 | Reduction and oxidation kinetics of Tierga iron ore for Chemical Looping Combustion with diverse fuels. Chemical Engineering Journal, 2019, 359, 37-46. | 12.7 | 42 |
| 117 | Use of Chemical-Looping processes for coal combustion with CO2 capture. Energy Procedia, 2013, 37, 540-549. | 1.8 | 41 |
| 118 | Development of (Mn0.77Fe0.23)2O3 particles as an oxygen carrier for coal combustion with CO2 capture via in-situ gasification chemical looping combustion (iG-CLC) aided by oxygen uncoupling (CLOU). Fuel Processing Technology, 2017, 164, 69-79. | 7.2 | 41 |
| 119 | Tar abatement for clean syngas production during biomass gasification in a dual fluidized bed. Fuel Processing Technology, 2016, 152, 116-123. | 7.2 | 40 |
| 120 | Performance in a Fixed-Bed Reactor of Titania-Supported Nickel Oxide as Oxygen Carriers for the Chemical-Looping Combustion of Methane in Multicycle Tests. Industrial & Digineering Chemistry Research, 2006, 45, 157-165. | 3.7 | 39 |
| 121 | Biomass chemical looping gasification for syngas production using LD Slag as oxygen carrier in a 1.5 kWth unit. Fuel Processing Technology, 2021, 222, 106963. | 7.2 | 39 |
| 122 | Ilmenite as oxygen carrier in a chemical looping combustion system with coal. Energy Procedia, 2011, 4, 362-369. | 1.8 | 38 |
| 123 | Manganese Minerals as Oxygen Carriers for Chemical Looping Combustion of Coal. Industrial & Engineering Chemistry Research, 2016, 55, 6539-6546. | 3.7 | 38 |
| 124 | Solid Waste Management of a Chemical-Looping Combustion Plant using Cu-Based Oxygen Carriers. Environmental Science & Environm | 10.0 | 37 |
| 125 | On a Highly Reactive Fe ₂ O ₃ /Al ₂ O ₃ Oxygen Carrier for <i>iin Situ</i> | 5.1 | 37 |
| 126 | Evaluation of Mn-Fe mixed oxide doped with TiO2 for the combustion with CO2 capture by Chemical Looping assisted by Oxygen Uncoupling. Applied Energy, 2019, 237, 822-835. | 10.1 | 37 |

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| 127 | Syngas/H2 production from bioethanol in a continuous chemical-looping reforming prototype. Fuel Processing Technology, 2015, 137, 24-30. | 7.2 | 36 |
| 128 | Sulphuric acid production via Chemical Looping Combustion of elemental sulphur. Applied Energy, 2016, 178, 736-745. | 10.1 | 36 |
| 129 | Relevance of the catalytic activity on the performance of a NiO/CaAl2O4 oxygen carrier in a CLC process. Applied Catalysis B: Environmental, 2014, 147, 980-987. | 20.2 | 35 |
| 130 | Optimization of H2 production with CO2 capture by steam reforming of methane integrated with a chemical-looping combustion system. International Journal of Hydrogen Energy, 2013, 38, 11878-11892. | 7.1 | 34 |
| 131 | Mercury Release and Speciation in Chemical Looping Combustion of Coal. Energy & Ener | 5.1 | 34 |
| 132 | Comparison of Mechanistic Models for the Sulfation Reaction in a Broad Range of Particle Sizes of Sorbents. Industrial & Description of Sorbents. Industrial & Description of Sorbents. Industrial & Description of Sorbents. | 3.7 | 33 |
| 133 | Combustion of Wood Chips in a CFBC. Modeling and Validation. Industrial & Company Engineering Chemistry Research, 2003, 42, 987-999. | 3.7 | 33 |
| 134 | Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i>i</i> C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i<i>iC-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i< i="">C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i< i="">C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i< i="">C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i< i="">C-CLC Process with Coal. 2. Industrial & Low-Cost Fe-Based Oxygen Carrier Materials for the <i< td=""></i<></i<></i<></i<></i<></i<i> | 3.7 | 33 |
| 135 | CLOU process performance with a Cu-Mn oxygen carrier in the combustion of different types of coal with CO2 capture. Fuel, 2018, 212, 605-612. | 6.4 | 33 |
| 136 | Coal combustion via Chemical Looping assisted by Oxygen Uncoupling with a manganeseâ€'iron mixed oxide doped with titanium. Fuel Processing Technology, 2020, 197, 106184. | 7.2 | 33 |
| 137 | Methods for characterization of sorbents used in fluidized bed boilersâ [*] †. Fuel, 1994, 73, 355-362. | 6.4 | 32 |
| 138 | Modelling for the high-temperature sulphation of calcium-based sorbents with cylindrical and plate-like pore geometries. Chemical Engineering Science, 2000, 55, 3665-3683. | 3.8 | 32 |
| 139 | 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. | 20.2 | 32 |
| 140 | Optimization of hydrogen production with CO2 capture by autothermal chemical-looping reforming using different bioethanol purities. Applied Energy, 2016, 169, 491-498. | 10.1 | 32 |
| 141 | Chemical Looping Combustion of liquid fossil fuels in a $1\mathrm{kW}$ th unit using a Fe-based oxygen carrier. Fuel Processing Technology, 2017, 160, 47-54. | 7.2 | 32 |
| 142 | Energy exploitation of acid gas with high H2S content by means of a chemical looping combustion system. Applied Energy, 2014, 136, 242-249. | 10.1 | 31 |
| 143 | Comparative study of fuel-N and tar evolution in chemical looping combustion of biomass under both iG-CLC and CLOU modes. Fuel, 2019, 236, 598-607. | 6.4 | 31 |
| 144 | Effect of pore geometry on the sintering of Ca-based sorbents during calcination at high temperatures. Fuel, 2004, 83, 1733-1742. | 6.4 | 30 |

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| 145 | Chemical-looping Combustion CO2 Ready Gas Power. Energy Procedia, 2009, 1, 1557-1564. | 1.8 | 30 |
| 146 | Design and Operation of a Coal-fired 50 kWth Chemical Looping Combustor. Energy Procedia, 2014, 63, 63-72. | 1.8 | 30 |
| 147 | Increasing energy efficiency in chemical looping combustion of methane by in-situ activation of perovskite-based oxygen carriers. Applied Energy, 2021, 287, 116557. | 10.1 | 30 |
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