

Jordi Guilera Sala

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

728
citations

623188

14
h-index

525886

27
g-index

27
all docs

27
docs citations

27
times ranked

806
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Fischer-Tropsch synthesis: Towards a highly-selective catalyst by lanthanide promotion under relevant CO ₂ syngas mixtures. <i>Applied Catalysis A: General</i> , 2022, 629, 118423. | 2.2 | 16 |
| 2 | Ignition of CO ₂ methanation using DBD-plasma catalysis in an adiabatic reactor. <i>Chemical Engineering Journal</i> , 2022, 433, 133638. | 6.6 | 5 |
| 3 | Synthetic natural gas production in a 1ÂkW reactor using Niâ€Ce/Al ₂ O ₃ and Ruâ€Ce/Al ₂ O ₃ : Kinetics, catalyst degradation and process design. <i>Energy</i> , 2022, 256, 124720. | 4.5 | 6 |
| 4 | Carbon footprint of synthetic natural gas through biogas catalytic methanation. <i>Journal of Cleaner Production</i> , 2021, 287, 125020. | 4.6 | 16 |
| 5 | An insight into the heat-management for the CO ₂ methanation based on free convection. <i>Fuel Processing Technology</i> , 2021, 213, 106666. | 3.7 | 12 |
| 6 | Passivation of Co/Al ₂ O ₃ Catalyst by Atomic Layer Deposition to Reduce Deactivation in the Fischerâ€Tropsch Synthesis. <i>Catalysts</i> , 2021, 11, 732. | 1.6 | 4 |
| 7 | Satisfactory catalyst stability in SNG production using real biogas despite sulfur poisoning evidences at different reactor zones. <i>Fuel</i> , 2021, 306, 121682. | 3.4 | 4 |
| 8 | Synthetic natural gas production from biogas in a waste water treatment plant. <i>Renewable Energy</i> , 2020, 146, 1301-1308. | 4.3 | 36 |
| 9 | Higher tolerance to sulfur poisoning in CO ₂ methanation by the presence of CeO ₂ . <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118346. | 10.8 | 48 |
| 10 | Pushing the Limits of SNG Process Intensification: High GHSV Operation at Pilot Scale. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8409-8418. | 3.2 | 15 |
| 11 | Adiabatic plasma-catalytic reactor configuration: Energy efficiency enhancement by plasma and thermal synergies on CO ₂ methanation. <i>Chemical Engineering Journal</i> , 2020, 393, 124786. | 6.6 | 27 |
| 12 | Optimization of nickel and ceria catalyst content for synthetic natural gas production through CO ₂ methanation. <i>Fuel Processing Technology</i> , 2019, 193, 114-122. | 3.7 | 49 |
| 13 | On the role of ceria in Ni-Al ₂ O ₃ catalyst for CO ₂ plasma methanation. <i>Applied Catalysis A: General</i> , 2019, 575, 223-229. | 2.2 | 50 |
| 14 | Metal-oxide promoted Ni/Al ₂ O ₃ as CO ₂ methanation micro-size catalysts. <i>Journal of CO₂ Utilization</i> , 2019, 30, 11-17. | 3.3 | 93 |
| 15 | Economic viability of SNG production from power and CO ₂ . <i>Energy Conversion and Management</i> , 2018, 162, 218-224. | 4.4 | 88 |
| 16 | CO ₂ conversion to synthetic natural gas: Reactor design over Niâ€Ce/Al ₂ O ₃ catalyst. <i>Chemical Engineering Research and Design</i> , 2018, 140, 155-165. | 2.7 | 27 |
| 17 | DBD plasma-assisted CO ₂ methanation using zeolite-based catalysts: Structure composition-reactivity approach and effect of Ce as promoter. <i>Journal of CO₂ Utilization</i> , 2018, 26, 202-211. | 3.3 | 58 |
| 18 | Facile integration of ordered nanowires in functional devices. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 104-112. | 4.0 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Synthesis of ethyl hexyl ether over acidic ion-exchange resins for cleaner diesel fuel. <i>Catalysis Science and Technology</i> , 2015, 5, 2238-2250. | 2.1 | 15 |
| 20 | Kinetic study of ethyl octyl ether formation from ethanol and 1-octanol on Amberlyst 70. <i>AIChE Journal</i> , 2014, 60, 2918-2928. | 1.8 | 8 |
| 21 | Influence of the functionalization degree of acidic ion-exchange resins on ethyl octyl ether formation. <i>Reactive and Functional Polymers</i> , 2014, 78, 14-22. | 2.0 | 5 |
| 22 | Reliability of the synthesis of C10-C16 linear ethers from 1-alkanols over acidic ion-exchange resins. <i>Biomass Conversion and Biorefinery</i> , 2013, 3, 27-37. | 2.9 | 7 |
| 23 | Thermal stability and water effect on ion-exchange resins in ethyl octyl ether production at high temperature. <i>Applied Catalysis A: General</i> , 2013, 467, 301-309. | 2.2 | 21 |
| 24 | Experimental Study of Chemical Equilibria in the Liquid-Phase Reaction between 1-Octanol and Ethanol to 1-Ethoxyoctane. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 2076-2082. | 1.0 | 2 |
| 25 | Comparison between Ethanol and Diethyl Carbonate as Ethylating Agents for Ethyl Octyl Ether Synthesis over Acidic Ion-Exchange Resins. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16525-16530. | 1.8 | 12 |
| 26 | Synthesis of ethyl octyl ether from diethyl carbonate and 1-octanol over solid catalysts. A screening study. <i>Applied Catalysis A: General</i> , 2012, 413-414, 21-29. | 2.2 | 19 |
| 27 | CO ₂ sorption and transport behavior of ODPA-based polyetherimide polymer films. <i>Polymer</i> , 2010, 51, 3907-3917. | 1.8 | 58 |