

Jordi Guilera Sala

List of Publications by Year in descending order

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27
papers

728
citations

623574

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all docs

27
docs citations

27
times ranked

806
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-oxide promoted Ni/Al ₂ O ₃ as CO ₂ methanation micro-size catalysts. Journal of CO ₂ Utilization, 2019, 30, 11-17.	3.3	93
2	Economic viability of SNG production from power and CO ₂ . Energy Conversion and Management, 2018, 162, 218-224.	4.4	88
3	CO ₂ sorption and transport behavior of ODPA-based polyetherimide polymer films. Polymer, 2010, 51, 3907-3917.	1.8	58
4	DBD plasma-assisted CO ₂ methanation using zeolite-based catalysts: Structure composition-reactivity approach and effect of Ce as promoter. Journal of CO ₂ Utilization, 2018, 26, 202-211.	3.3	58
5	On the role of ceria in Ni-Al ₂ O ₃ catalyst for CO ₂ plasma methanation. Applied Catalysis A: General, 2019, 575, 223-229.	2.2	50
6	Optimization of nickel and ceria catalyst content for synthetic natural gas production through CO ₂ methanation. Fuel Processing Technology, 2019, 193, 114-122.	3.7	49
7	Higher tolerance to sulfur poisoning in CO ₂ methanation by the presence of CeO ₂ . Applied Catalysis B: Environmental, 2020, 263, 118346.	10.8	48
8	Synthetic natural gas production from biogas in a waste water treatment plant. Renewable Energy, 2020, 146, 1301-1308.	4.3	36
9	Facile integration of ordered nanowires in functional devices. Sensors and Actuators B: Chemical, 2015, 221, 104-112.	4.0	27
10	CO ₂ conversion to synthetic natural gas: Reactor design over Ni-Ce/Al ₂ O ₃ catalyst. Chemical Engineering Research and Design, 2018, 140, 155-165.	2.7	27
11	Adiabatic plasma-catalytic reactor configuration: Energy efficiency enhancement by plasma and thermal synergies on CO ₂ methanation. Chemical Engineering Journal, 2020, 393, 124786.	6.6	27
12	Thermal stability and water effect on ion-exchange resins in ethyl octyl ether production at high temperature. Applied Catalysis A: General, 2013, 467, 301-309.	2.2	21
13	Synthesis of ethyl octyl ether from diethyl carbonate and 1-octanol over solid catalysts. A screening study. Applied Catalysis A: General, 2012, 413-414, 21-29.	2.2	19
14	Carbon footprint of synthetic natural gas through biogas catalytic methanation. Journal of Cleaner Production, 2021, 287, 125020.	4.6	16
15	Fischer-Tropsch synthesis: Towards a highly-selective catalyst by lanthanide promotion under relevant CO ₂ syngas mixtures. Applied Catalysis A: General, 2022, 629, 118423.	2.2	16
16	Synthesis of ethyl hexyl ether over acidic ion-exchange resins for cleaner diesel fuel. Catalysis Science and Technology, 2015, 5, 2238-2250.	2.1	15
17	Pushing the Limits of SNG Process Intensification: High GHSV Operation at Pilot Scale. ACS Sustainable Chemistry and Engineering, 2020, 8, 8409-8418.	3.2	15
18	Comparison between Ethanol and Diethyl Carbonate as Ethylating Agents for Ethyl Octyl Ether Synthesis over Acidic Ion-Exchange Resins. Industrial & Engineering Chemistry Research, 2012, 51, 16525-16530.	1.8	12

#	ARTICLE	IF	CITATIONS
19	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
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	Reliability of the synthesis of C ₁₀ -C ₁₆ linear ethers from 1-alkanols over acidic ion-exchange resins. <i>Biomass Conversion and Biorefinery</i> , 2013, 3, 27-37.	2.9	7
22	Synthetic natural gas production in a 1 kW reactor using Ni/Ce/Al ₂ O ₃ and Ru/Ce/Al ₂ O ₃ : Kinetics, catalyst degradation and process design. <i>Energy</i> , 2022, 256, 124720.	4.5	6
23	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
24	Ignition of CO ₂ methanation using DBD-plasma catalysis in an adiabatic reactor. <i>Chemical Engineering Journal</i> , 2022, 433, 133638.	6.6	5
25	Passivation of Co/Al ₂ O ₃ Catalyst by Atomic Layer Deposition to Reduce Deactivation in the Fischer-Tropsch Synthesis. <i>Catalysts</i> , 2021, 11, 732.	1.6	4
26	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
27	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