

Miguel Angel Soria

List of Publications by Year in descending order

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46
papers

1,592
citations

279487

23
h-index

288905

40
g-index

46
all docs

46
docs citations

46
times ranked

1582
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and strategies for optimization of glycerol steam reforming process. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1187-1213.	8.2	185
2	Thermodynamic and experimental study of combined dry and steam reforming of methane on Ru/ZrO ₂ -La ₂ O ₃ catalyst at low temperature. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15212-15220.	3.8	129
3	Transient studies of low-temperature dry reforming of methane over Ni-CaO/ZrO ₂ -La ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2013, 129, 450-459.	10.8	120
4	Direct CO ₂ hydrogenation to methane or methanol from post-combustion exhaust streams – A thermodynamic study. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 22, 1-8.	2.1	115
5	A sorptive reactor for CO ₂ capture and conversion to renewable methane. <i>Chemical Engineering Journal</i> , 2017, 322, 590-602.	6.6	82
6	Thermodynamic analysis of Glycerol Steam Reforming for hydrogen production with in situ hydrogen and carbon dioxide separation. <i>Journal of Power Sources</i> , 2015, 273, 423-430.	4.0	67
7	High temperature CO ₂ sorption over modified hydrotalcites. <i>Chemical Engineering Journal</i> , 2017, 325, 25-34.	6.6	65
8	Hydrogen production through steam reforming of bio-oils derived from biomass pyrolysis: Thermodynamic analysis including in situ CO ₂ and/or H ₂ separation. <i>Fuel</i> , 2019, 244, 184-195.	3.4	54
9	Autothermal reforming of impure glycerol for H ₂ production: Thermodynamic study including in situ CO ₂ and/or H ₂ separation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2607-2620.	3.8	52
10	Effect of the preparation method on the catalytic activity and stability of Au/Fe ₂ O ₃ catalysts in the low-temperature water-gas shift reaction. <i>Applied Catalysis A: General</i> , 2014, 470, 45-55.	2.2	45
11	Dry reforming of methane using Pd-based membrane reactors fabricated from different substrates. <i>Journal of Membrane Science</i> , 2013, 435, 218-225.	4.1	44
12	Enhancing the low temperature water-gas shift reaction through a hybrid sorption-enhanced membrane reactor for high-purity hydrogen production. <i>Fuel</i> , 2015, 159, 854-863.	3.4	44
13	Process intensification for hydrogen production through glycerol steam reforming. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 146, 111151.	8.2	36
14	Application of Au/TiO ₂ catalysts in the low-temperature water-gas shift reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4670-4681.	3.8	35
15	CO _x free hydrogen production through water-gas shift reaction in different hybrid multifunctional reactors. <i>Chemical Engineering Journal</i> , 2019, 356, 727-736.	6.6	34
16	Hydrogen and/or syngas production through combined dry and steam reforming of biogas in a membrane reactor: A thermodynamic study. <i>Renewable Energy</i> , 2020, 157, 1254-1264.	4.3	33
17	Effect of the nature of TiO ₂ support over the performances of Rh/TiO ₂ catalysts in the partial oxidation of methane. <i>Catalysis Today</i> , 2013, 203, 158-162.	2.2	32
18	Steam reforming of glycerol for hydrogen production: Modeling study. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1408-1418.	3.8	30

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19	Glycerol steam reforming for hydrogen production: Traditional versus membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24719-24732.	3.8	30
20	CO ₂ Methanation over Hydrotalcite-Derived Nickel/Ruthenium and Supported Ruthenium Catalysts. <i>Catalysts</i> , 2019, 9, 1008.	1.6	29
21	From sorption-enhanced reactor to sorption-enhanced membrane reactor: A step towards H ₂ production optimization through glycerol steam reforming. <i>Chemical Engineering Journal</i> , 2019, 368, 795-811.	6.6	28
22	Low temperature glycerol steam reforming over a Rh-based catalyst combined with oxidative regeneration. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2461-2473.	3.8	26
23	Steam reforming of olive oil mill wastewater with in situ hydrogen and carbon dioxide separation – Thermodynamic analysis. <i>Fuel</i> , 2017, 207, 449-460.	3.4	24
24	Doping of hydrotalcite-based sorbents with different interlayer anions for CO ₂ capture. <i>Separation and Purification Technology</i> , 2020, 235, 116140.	3.9	24
25	Catalytic steam reforming of methane under conditions of applicability with Pd membranes over supported Ru catalysts. <i>Catalysis Today</i> , 2011, 171, 126-131.	2.2	20
26	Effect of interlayer anion on the CO ₂ capture capacity of hydrotalcite-based sorbents. <i>Separation and Purification Technology</i> , 2019, 219, 290-302.	3.9	20
27	Hydrogen production through chemical looping and sorption-enhanced reforming of olive mill wastewater: Thermodynamic and energy efficiency analysis. <i>Energy Conversion and Management</i> , 2021, 238, 114146.	4.4	19
28	Dynamic behaviour of a K-doped Ga substituted and microwave aged hydrotalcite-derived mixed oxide during CO ₂ sorption experiments. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 491-503.	2.9	18
29	Screening of commercial catalysts for steam reforming of olive mill wastewater. <i>Renewable Energy</i> , 2021, 169, 765-779.	4.3	16
30	Olive mill wastewater valorization through steam reforming using hybrid multifunctional reactors for high-purity H ₂ production. <i>Chemical Engineering Journal</i> , 2022, 430, 132651.	6.6	16
31	Kinetic analysis of the Ru/SiO ₂ -catalyzed low temperature methane steam reforming. <i>Applied Catalysis A: General</i> , 2012, 413-414, 366-374.	2.2	15
32	Thermodynamic analysis of olive oil mill wastewater steam reforming. <i>Journal of the Energy Institute</i> , 2019, 92, 1599-1609.	2.7	15
33	Influence of the products of the partial oxidation of methane (POM) on the catalytic performances of Rh/Ti-modified support catalysts. <i>Applied Catalysis A: General</i> , 2011, 394, 245-256.	2.2	12
34	Shape Effects of Ceria Nanoparticles on the Water-Gas Shift Performance of CuO _x /CeO ₂ Catalysts. <i>Catalysts</i> , 2021, 11, 753.	1.6	12
35	Modifications of porous stainless steel previous to the synthesis of Pd membranes. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 779-783.	1.5	10
36	Promoter role of V ₂ O ₅ on vanadium supported Al _{0.5} Ga _{0.5} PO ₄ catalysts during propane ammoxidation. <i>Applied Catalysis A: General</i> , 2007, 325, 296-302.	2.2	9

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37	High temperature CO ₂ sorption using mixed oxides with different Mg/Al molar ratios and synthesis pH. <i>Chemical Engineering Journal</i> , 2021, 420, 129731.	6.6	8
38	Combined autothermal and sorption-enhanced reforming of olive mill wastewater for the production of hydrogen: Thermally neutral conditions analysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23629-23641.	3.8	7
39	Use of Ni-containing catalysts for synthetic olive mill wastewater steam reforming. <i>Renewable Energy</i> , 2022, 185, 1329-1342.	4.3	7
40	Olive Mill Wastewater Valorization through Steam Reforming Using Multifunctional Reactors: Challenges of the Process Intensification. <i>Energies</i> , 2022, 15, 920.	1.6	7
41	Influence of vanadium loading on the activity and selectivity of V/Al _{0.5} Ga _{0.5} PO ₄ catalysts in the propane ammoxidation. <i>Catalysis Today</i> , 2013, 203, 40-47.	2.2	5
42	Parameters influencing the synergetic effect induced by vanadium incorporation on non-conventional (Al)(Ga)PO supports for the propane ammoxidation. <i>Catalysis Today</i> , 2007, 128, 168-175.	2.2	4
43	Improving selectivity by the addition of N ₂ O in the feed during partial oxidation of methane over supported rhodium catalysts. <i>Catalysis Today</i> , 2013, 203, 176-181.	2.2	4
44	Further on the influence of the presence of small amount of N ₂ O in the reactant feed in the catalytic oxidation of methane over supported Rh catalysts. <i>Catalysis Today</i> , 2013, 213, 155-162.	2.2	2
45	Catalytic Steam Reforming of Biomass-Derived Oxygenates for H ₂ Production: A Review on Ni-Based Catalysts. <i>ChemEngineering</i> , 2022, 6, 39.	1.0	2
46	Preparation, Characterization, and Activity of Pd/PSS-Modified Membranes in the Low Temperature Dry Reforming of Methane with and without Addition of Extra Steam. <i>Membranes</i> , 2021, 11, 518.	1.4	1