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List of Publications by Year in descending order

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95
papers

3,621
citations

109321

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144013

57
g-index

95
all docs

95
docs citations

95
times ranked

3596
citing authors

#	ARTICLE	IF	CITATIONS
1	High efficiency steam reforming of ethanol by cobalt-based catalysts. Journal of Power Sources, 2004, 134, 27-32.	7.8	224
2	Characterization of the activity and stability of supported cobalt catalysts for the steam reforming of ethanol. Journal of Power Sources, 2003, 124, 99-103.	7.8	207
3	Structural features of $\text{La}_{1-x}\text{Ce}_x\text{NiO}_3$ mixed oxides and performance for the dry reforming of methane. Applied Catalysis A: General, 2006, 311, 94-104.	4.3	206
4	Evaluation of the performance of $\text{Ni}/\text{La}_2\text{O}_3$ catalyst prepared from LaNiO_3 perovskite-type oxides for the production of hydrogen through steam reforming and oxidative steam reforming of ethanol. Applied Catalysis A: General, 2010, 377, 181-190.	4.3	147
5	Influence of calcium content in $\text{Ni}/\text{CaO}/\text{Al}_2\text{O}_3$ catalysts for CO_2 -reforming of methane. Catalysis Today, 2003, 85, 59-68.	4.4	139
6	Autothermal reforming of methane over $\text{Ni}/\text{Al}_2\text{O}_3$ catalysts: the enhancement effect of small quantities of noble metals. Journal of Power Sources, 2004, 130, 106-110.	7.8	112
7	Dry reforming of methane on Ni-Mg-Al nano-spheroid oxide catalysts prepared by the sol-gel method from hydrotalcite-like precursors. Applied Surface Science, 2013, 280, 876-887.	6.1	112
8	Catalytic evaluation of perovskite-type oxide $\text{LaNi}_{1-x}\text{Ru}_x\text{O}_3$ in methane dry reforming. Catalysis Today, 2008, 133-135, 129-135.	4.4	106
9	Hydrogen production through oxidative steam reforming of ethanol over Ni-based catalysts derived from $\text{La}_{1-x}\text{Ce}_x\text{NiO}_3$ perovskite-type oxides. Applied Catalysis B: Environmental, 2012, 121-122, 1-9.	20.2	96
10	Ni-Fe Catalysts Based on Perovskite-type Oxides for Dry Reforming of Methane to Syngas. Catalysis Letters, 2006, 108, 63-70.	2.6	89
11	Hydrogen production by steam reforming of ethanol over Ni-based catalysts promoted with noble metals. Journal of Power Sources, 2009, 190, 525-533.	7.8	86
12	Influence of the Supramolecular Structure and Physicochemical Properties of Cellulose on Its Dissolution in a Lithium Chloride/ N,N -Dimethylacetamide Solvent System. Biomacromolecules, 2005, 6, 2638-2647.	5.4	84
13	Methane conversion reactions on Ni catalysts promoted with Rh: Influence of support. Applied Catalysis A: General, 2011, 400, 156-165.	4.3	74
14	$\text{La}_{1-x}\text{Ca}_x\text{NiO}_3$ Perovskite Oxides: Characterization and Catalytic Reactivity in Dry Reforming of Methane. Catalysis Letters, 2008, 124, 195-203.	2.6	71
15	Effect of nature of ceria support in CuO/CeO_2 catalyst for PROX-CO reaction. Fuel, 2012, 97, 245-252.	6.4	63
16	Reforming of a model biogas on Ni and Rh-Ni catalysts: Effect of adding La. Fuel Processing Technology, 2012, 102, 124-131.	7.2	56
17	$\text{Ni}/\text{Al}_2\text{O}_3$ catalysts: effects of the promoters Ce, La and Zr on the methane steam and oxidative reforming reactions. Catalysis Science and Technology, 2013, 3, 635-643.	4.1	56
18	MnO_2 nanowires decorated with Au ultrasmall nanoparticles for the green oxidation of silanes and hydrogen production under ultralow loadings. Applied Catalysis B: Environmental, 2016, 184, 35-43.	20.2	55

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19	CuO/CeO ₂ catalysts synthesized in one-step: Characterization and PROX performance. International Journal of Hydrogen Energy, 2012, 37, 5498-5507.	7.1	53
20	Reforming of a model sulfur-free biogas on Ni catalysts supported on Mg(Al)O derived from hydrotalcite precursors: Effect of La and Rh addition. Biomass and Bioenergy, 2014, 60, 8-17.	5.7	48
21	Autothermal reforming of methane over Ni/Al ₂ O ₃ promoted with Pd: The effect of the Pd source in activity, temperature profile of reactor and in ignition. Applied Catalysis A: General, 2008, 334, 243-250.	4.3	46
22	Autoreduction of promoted Ni/Al ₂ O ₃ during autothermal reforming of methane. Journal of Power Sources, 2005, 139, 176-181.	7.8	45
23	Hydrogen production and purification from the water-gas shift reaction on CuO/CeO ₂ -TiO ₂ catalysts. Applied Energy, 2013, 112, 52-59.	10.1	45
24	A comparison between copper and nickel-based catalysts obtained from hydrotalcite-like precursors for WGS. Catalysis Today, 2011, 171, 290-296.	4.4	44
25	One-Pot Synthesis of Mesoporous Ni-Ti-Al Ternary Oxides: Highly Active and Selective Catalysts for Steam Reforming of Ethanol. ACS Applied Materials & Interfaces, 2017, 9, 6079-6092.	8.0	44
26	Effect of ionic liquid in Ni/ZrO ₂ catalysts applied to syngas production by methane tri-reforming. International Journal of Hydrogen Energy, 2019, 44, 9316-9327.	7.1	44
27	Methane steam reforming on supported and non-supported molybdenum carbides. Chemical Engineering Journal, 2005, 106, 97-103.	12.7	43
28	Study of Co/CeO ₂ -Al ₂ O ₃ catalysts for steam and oxidative reforming of ethanol for hydrogen production. Fuel Processing Technology, 2014, 128, 134-145.	7.2	43
29	Controlling Size, Morphology, and Surface Composition of AgAu Nanodendrites in 15 s for Improved Environmental Catalysis under Low Metal Loadings. ACS Applied Materials & Interfaces, 2015, 7, 25624-25632.	8.0	42
30	The advantages of air addition on the methane steam reforming over Ni/Al ₂ O ₃ . Journal of Power Sources, 2004, 137, 264-268.	7.8	39
31	Double bed reactor for the simultaneous steam reforming of ethanol and water gas shift reactions. International Journal of Hydrogen Energy, 2006, 31, 1204-1209.	7.1	38
32	The enhanced activity of Ca/MgAl mixed oxide for transesterification. Fuel Processing Technology, 2014, 125, 73-78.	7.2	38
33	Synthesis and Characterization of LaNiO ₃ , LaNi(1-x)Fe _x O ₃ and LaNi(1-x)Co _x O ₃ Perovskite Oxides for Catalysis Application. Materials Research, 2002, 5, 329-335.	1.3	37
34	Novel supports for nickel-based catalysts for the partial oxidation of methane. Catalysis Today, 2010, 149, 240-247.	4.4	37
35	Study of CuO/CeO ₂ catalyst with for preferential CO oxidation reaction in hydrogen-rich feed (PROX-CO). Applied Catalysis A: General, 2012, 431-432, 25-32.	4.3	37
36	Effect of lanthanum on the properties of copper, cerium and zirconium catalysts for preferential oxidation of carbon monoxide. Catalysis Today, 2014, 228, 40-50.	4.4	36

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37	Syngas for Fischer-Tropsch synthesis by methane tri-reforming using nickel supported on MgAl ₂ O ₄ promoted with Zr, Ce and Ce-Zr. Applied Surface Science, 2019, 481, 747-760.	6.1	36
38	Support influence on the basicity promotion of lithium-based mixed oxides for transesterification reaction. Fuel, 2013, 103, 632-638.	6.4	35
39	Effect of gadolinium on the catalytic properties of iron oxides for WGS. Catalysis Today, 2013, 213, 127-134.	4.4	32
40	CuFe and CuCo supported on pillared clay as catalysts for CO ₂ hydrogenation into value-added products in one-step. Molecular Catalysis, 2018, 458, 297-306.	2.0	32
41	Combining active phase and support optimization in MnO ₂ -Au nanoflowers: Enabling high activities towards green oxidations. Journal of Colloid and Interface Science, 2018, 530, 282-291.	9.4	32
42	Hydrogen purification for fuel cell using CuO/CeO ₂ -Al ₂ O ₃ catalyst. Journal of Power Sources, 2011, 196, 747-753.	7.8	31
43	Hydrotalcites derived catalysts for syngas production from biogas reforming: Effect of nickel and cerium load. Catalysis Today, 2017, 289, 78-88.	4.4	31
44	Methane tri-reforming for synthesis gas production using Ni/CeZrO ₂ /MgAl ₂ O ₄ catalysts: Effect of Zr/Ce molar ratio. International Journal of Hydrogen Energy, 2020, 45, 8418-8432.	7.1	31
45	MgAlLi Mixed Oxides Derived from Hydrotalcite for Catalytic Transesterification. Catalysis Letters, 2011, 141, 1316-1323.	2.6	29
46	Effect of operating parameters on H ₂ /CO ₂ conversion to methanol over Cu-Zn oxide supported on ZrO ₂ polymorph catalysts: Characterization and kinetics. Chemical Engineering Journal, 2022, 427, 130947.	12.7	29
47	X-ZrO ₂ addition (X= Ce, La, Y and Sm) on Ni/MgAl ₂ O ₄ applied to methane tri-reforming for syngas production. Journal of CO ₂ Utilization, 2019, 33, 273-283.	6.8	28
48	The effect of metal content on nickel-based catalysts obtained from hydrotalcites for WGS in one step. International Journal of Hydrogen Energy, 2014, 39, 815-828.	7.1	24
49	Hollow AgPt/SiO ₂ nanomaterials with controlled surface morphologies: is the number of Pt surface atoms imperative to optimize catalytic performances?. Catalysis Science and Technology, 2016, 6, 2162-2170.	4.1	24
50	Active copper species of co-precipitated copper-ceria catalysts in the CO-PROX reaction: An in situ XANES and DRIFTS study. Catalysis Today, 2021, 381, 42-49.	4.4	24
51	Hydrogen production from oxidative reforming of methane on Ni/Al ₂ O ₃ catalysts: Effect of support promotion with La, La-Ce and La-Zr. Fuel Processing Technology, 2014, 127, 97-104.	7.2	23
52	Performance of CuO-CeO ₂ Catalysts with Low Copper Content in CO Preferential Oxidation Reaction. Catalysis Letters, 2011, 141, 316-321.	2.6	22
53	Effect of Mg substitution on LaTi _{1-x} Mg _x O _{3+δ} catalysts for improving the C ₂ selectivity of the oxidative coupling of methane. Catalysis Science and Technology, 2021, 11, 283-296.	4.1	20
54	Syngas production by methane tri-reforming: Effect of Ni/CeO ₂ synthesis method on oxygen vacancies and coke formation. Journal of CO ₂ Utilization, 2022, 56, 101853.	6.8	20

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55	Surface interaction of CO ₂ /H ₂ mixture on mesoporous ZrO ₂ : Effect of crystalline polymorph phases. Applied Surface Science, 2019, 496, 143671.	6.1	19
56	New insights about the effect of the synthesis method on the CuO/CeO ₂ redox properties and catalytic performance towards CO-PROX reaction for fuel cell applications. Journal of Environmental Management, 2019, 242, 272-278.	7.8	19
57	Catalytic hydrogenation of CO ₂ into methanol and dimethyl ether over Cu-X/V-Al PILC (X = Ce and Nb) catalysts. Catalysis Today, 2017, 289, 173-180.	4.4	18
58	Steam reforming of ethanol for hydrogen production on Co/CeO ₂ -ZrO ₂ catalysts prepared by polymerization method. Materials Chemistry and Physics, 2012, 132, 1029-1034.	4.0	17
59	Low-pressure hydrogenation of CO ₂ to methanol over Ni-Ga alloys synthesized by a surfactant-assisted co-precipitation method and a proposed mechanism by DRIFTS analysis. Catalysis Today, 2021, 381, 261-271.	4.4	17
60	Adjusting Process Variables in Methane Tri-reforming to Achieve Suitable Syngas Quality and Low Coke Deposition. Energy & Fuels, 2020, 34, 16522-16531.	5.1	16
61	CO preferential oxidation reaction aspects in a nanocrystalline CuO/CeO ₂ catalyst. Catalysis Today, 2020, 344, 124-128.	4.4	15
62	The enhanced activity of base metal modified MgAl mixed oxides from sol-gel hydrotalcite for ethylic transesterification. Renewable Energy, 2020, 146, 1984-1990.	8.9	15
63	In situ study of low-temperature dry reforming of methane over La ₂ Ce ₂ O ₇ and LaNiO ₃ mixed oxides. Applied Catalysis B: Environmental, 2022, 315, 121528.	20.2	15
64	The active phase distribution in Ni/Al ₂ O ₃ catalysts and mathematical modeling of the impregnation process. Chemical Engineering Journal, 2003, 94, 93-98.	12.7	14
65	Produção de hidrogênio a partir da reforma a vapor de etanol utilizando catalisadores Cu/Ni/gama-Al ₂ O ₃ . Química Nova, 2007, 30, 339-345.	0.3	14
66	Promoting effects of indium doped Cu/CeO ₂ catalysts on CO ₂ hydrogenation to methanol. Reaction Chemistry and Engineering, 2022, 7, 1589-1602.	3.7	14
67	Catalytic Properties of AgPt Nanoshells as a Function of Size: Larger Outer Diameters Lead to Improved Performances. Langmuir, 2016, 32, 9371-9379.	3.5	13
68	OXIDATIVE-REFORMING OF METHANE AND PARTIAL OXIDATION OF METHANE REACTIONS OVER NiO/PrO ₂ /ZrO ₂ CATALYSTS: EFFECT OF NICKEL CONTENT. Brazilian Journal of Chemical Engineering, 2016, 33, 627-636.	1.3	12
69	MATHEMATICAL MODELLING OF METHANE STEAM REFORMING IN A MEMBRANE REACTOR: AN ISOTHERMIC MODEL. Brazilian Journal of Chemical Engineering, 1998, 15, 160-166.	1.3	12
70	Exploiting oxidative coupling of methane performed over La ₂ O ₃ (Ce _{1-x} Mg _x) ₂ O _{7-δ} catalysts with disordered defective cubic fluorite structure. Catalysis Science and Technology, 2021, 11, 4471-4481.	4.1	11
71	Hydrogen purification over lanthanum-doped iron oxides by WGS. Catalysis Today, 2017, 296, 262-271.	4.4	11
72	Efeito do teor metálico em catalisadores Co/Al ₂ O ₃ aplicados à reação de reforma a vapor de etanol. Química Nova, 2005, 28, 587-590.	0.3	10

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73	Lithium and calcium based perovskite type oxides for ethylic transesterification. Catalysis Today, 2017, 279, 177-186.	4.4	10
74	NiMgAlCe Catalysts Applied to Reforming of a Model Biogas for Syngas Production. Catalysis Letters, 2018, 148, 979-991.	2.6	10
75	Effect of the Synthesis Method on Physicochemical Properties and Performance of Cu/ZnO/Nb ₂ O ₅ Catalysts for CO ₂ Hydrogenation to Methanol. Industrial & Engineering Chemistry Research, 2021, 60, 18750-18758.	3.7	10
76	Systematic investigation of the effect of oxygen mobility on CO oxidation over AgPt nanoshells supported on CeO ₂ , TiO ₂ and Al ₂ O ₃ . Journal of Materials Science, 2017, 52, 13764-13778.	3.7	9
77	Sãntese e caracterizaçãõ de perovskitas LaNi(1-x)Co xO ₃ como precursores de catalisadores para a conversãõ do metano a gãis de sãntese pela reforma com CO ₂ . Quimica Nova, 2007, 30, 298-303.	0.3	8
78	Performance of cobalt catalysts supported on CexZr1-xO ₂ (0 ≤ x ≤ 1) solid solutions in oxidative ethanol reforming. Reaction Kinetics, Mechanisms and Catalysis, 2013, 109, 181-197.	1.7	8
79	Stabilization of atomically dispersed rhodium sites on ceria-based supports under reaction conditions probed by in situ infrared spectroscopy. Materials Letters, 2020, 277, 128354.	2.6	7
80	Preparation of core-shell Pt@Fe ₃ O ₄ @SiO ₂ nanostructures by oxidation of core-shell FePt@SiO ₂ nanoflowers and their performance in preferential CO oxidation reaction. Materials Research Express, 2019, 6, 015042.	1.6	6
81	Catalisadores Ni/Al ₂ O ₃ promovidos com molibdênio para a reaãõ de reforma a vapor de metano. Quimica Nova, 2003, 26, 181-187.	0.3	5
82	Perovskites as catalyst precursors: Partial oxidation of methane on La _{1-x} CaxNiO ₃ . Studies in Surface Science and Catalysis, 2007, 167, 481-486.	1.5	5
83	Lithium containing MgAl mixed oxides obtained from sol-gel hydrotalcite for transesterification. Brazilian Journal of Chemical Engineering, 2018, 35, 189-198.	1.3	5
84	Production of light hydrocarbons at atmospheric pressure from CO ₂ hydrogenation using CexZr(1-x)O ₂ iron-based catalysts. Journal of CO ₂ Utilization, 2022, 55, 101805.	6.8	5
85	Characterization and performance within the WGS reaction of Cu catalysts obtained from hydrotalcites. International Journal of Hydrogen Energy, 2021, 46, 32455-32470.	7.1	4
86	Study on the effect of preparation variables of NiAl ₂ O ₃ catalysts by experimental planning. Chemical Engineering Science, 1996, 51, 2921-2925.	3.8	3
87	Structural characterization of W-Ni-Al ₂ O ₃ catalysts. Journal of Synchrotron Radiation, 2001, 8, 648-650.	2.4	3
88	Estudo da reaãõ de oxidaãõ preferencial do co sobre o sistema CuO/CeO ₂ -TiO ₂ . Quimica Nova, 2010, 33, 1910-1914.	0.3	3
89	Methanol to C ₂ and C ₄ fuels over (Nb/Al)-pillared clay catalysts. RSC Advances, 2016, 6, 27915-27921.	3.6	3
90	CO oxidation and CO-PROX reactions over Au catalysts supported on different metal oxides: a comparative study. Brazilian Journal of Chemical Engineering, 2020, 37, 667-677.	1.3	3

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91	Activity of Cu/CeO ₂ and Cu/CeO ₂ -ZrO ₂ for low temperature water-gas shift reaction. Studies in Surface Science and Catalysis, 2007, 167, 213-218.	1.5	2
92	Statistical modeling applied to the oxidative coupling of methane reaction over porous (Sr _x La _{1-x})CeO mixed oxides for optimization of C ₂ yield, C ₂ selectivity, and C ₂ H ₄ selectivity. Chemical Engineering Journal Advances, 2021, 7, 100119.	5.2	2
93	Influence of Al, Cr, Ga, or Zr as promoters on the performance of Cu/ZnO catalyst for CO ₂ hydrogenation to methanol. Molecular Catalysis, 2022, 528, 112512.	2.0	2
94	Improving Coking Resistance and Catalytic Performance of Ni Catalyst from LaNiO ₃ Perovskite by Dispersion on SBA-15 Mesoporous Silica for Hydrogen Production by Steam Reforming of Ethanol. Topics in Catalysis, 0, , 1.	2.8	1
95	Overall Insights into Sustainable Utilization of Methane and Carbon Dioxide in Heterogeneous Catalysis. Engineering Materials, 2021, , 237-270.	0.6	0