Fereshteh Meshkani

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1002069/publications.pdf

Version: 2024-02-01

104 papers	4,312 citations	87401 40 h-index	139680 61 g-index
106 all docs	106 docs citations	106 times ranked	3591 citing authors

#	Article	IF	Citations
1	Influence of Fe, La, Zr, Ce, and Ca on the catalytic performance and coke formation in dry reforming of methane over Ni/MgO.Al2O3 catalyst. Chemical Engineering Science, 2022, 250, 116956.	1.9	16
2	Investigating the effects of synthesis procedures on textural and catalytic properties of nickel/magnesium silicate catalyst in glycerol dry reforming. Chemical Engineering Science, 2022, 255, 117676.	1.9	6
3	Preparation of the Mn/Co mixed oxide catalysts for low-temperature CO oxidation reaction. Environmental Science and Pollution Research, 2021, 28, 379-388.	2.7	14
4	Enhanced low-temperature activity of CO2 methanation over ceria-promoted Ni-Al2O3 nanocatalyst. Chemical Engineering Science, 2021, 230, 116194.	1.9	49
5	Effect of mesoporous nanocrystalline supports on the performance of the Niâ€“Cu catalysts in the high-temperature water-gas shift reaction. Journal of the Energy Institute, 2021, 96, 75-89.	2.7	13
6	Thermocatalytic decomposition of CH4 over Ni/SiO2.MgO catalysts prepared via surfactant-assisted urea precipitation method. Fuel, 2021, 284, 118866.	3.4	16
7	One-pot hard template synthesis of mesoporous spinel nanoparticles as efficient catalysts for low temperature CO oxidation. Environmental Science and Pollution Research, 2021, 28, 547-563.	2.7	3
8	Investigating catalytic performance of Ag/Ce promoted Fe/ Al 2 O 3 catalyst in the CO hydrogenation process: Selectivity modeling and optimization using response surface methodology. International Journal of Energy Research, 2021, 45, 14518-14529.	2.2	4
9	Preparation and improvement of the mesoporous nanostructured nickel catalysts supported on magnesium aluminate for syngas production by glycerol dry reforming. International Journal of Hydrogen Energy, 2021, 46, 22454-22462.	3.8	21
10	Promotional roles of second metals in catalyzing methane decomposition over the Ni-based catalysts for hydrogen production: A critical review. International Journal of Hydrogen Energy, 2021, 46, 20435-20480.	3.8	54
11	Preparation and evaluation of Ni/Î³-Al2O3 catalysts promoted by alkaline earth metals in glycerol reforming with carbon dioxide. International Journal of Hydrogen Energy, 2021, 46, 24991-25003.	3.8	16
12	Characterization and evaluation of mesoporous high surface area promoted Ni- Al2O3 catalysts in CO2 methanation. Journal of the Energy Institute, 2020, 93, 482-495.	2.7	47
13	Surfactantâ€Free Solâ€“Gel Synthesis Method for the Preparation of Mesoporous High Surface Area NiOâ€“Al₂O₃ Nanopowder and Its Application in Catalytic CO₂ Methanation. Energy Technology, 2020, 8, 1900778.	1.8	20
14	Preparation and improvement of nickel catalyst supported ordered mesoporous spherical silica for thermocatalytic decomposition of methane. Journal of the Energy Institute, 2020, 93, 2488-2496.	2.7	24
15	Comparative study of modified Ni catalysts over mesoporous CaO-Al2O3 support for CO2/methane reforming. Catalysis Communications, 2020, 145, 106100.	1.6	25
16	Samarium-impregnated nickel catalysts over SBA-15 in steam reforming of CH4 process. Journal of Industrial and Engineering Chemistry, 2020, 86, 73-80.	2.9	49
17	3D ordered honeycomb-shaped CuOâ‹…Mn2O3: Highly active catalysts for CO oxidation. Molecular Catalysis, 2020, 485, 110820.	1.0	8
18	Toluene Oxidation over the Mâ€“Al (M = Ce, La, Co, Ceâ€“La, and Ceâ€“Co) Catalysts Derived from the Modified â€œOne-Potâ€•Evaporation-Induced Self-Assembly Method: Effects of Microwave or Ultrasound Irradiation and Noble-Metal Loading on Catalytic Activity and Stability. Industrial & Engineering Chemistry Research, 2020, 59, 5624-5635.	1.8	10

#	Article	IF	Citations
19	Current status of hydrogenation of carbon dioxide. , 2020, , 215-239.		0
20	Catalytic Oxidation of CO over Nanocrystalline La_{1â€“x}Ce_xNiO₃ Perovskiteâ€Type Oxides. Chemical Engineering and Technology, 2019, 42, 2443-2449.	0.9	6
21	Influence of group IIA metals on the performance of the Ni Cu/CeO2Al2O3 catalysts in high-temperature water gas shift reaction. International Journal of Hydrogen Energy, 2019, 44, 2694-2703.	3.8	8
22	Influence of group VIB metals on activity of the Ni/MgO catalysts for methane decomposition. Applied Catalysis B: Environmental, 2019, 248, 515-525.	10.8	79
23	Preparation and optimization of the MnCo2O4 powders for low temperature CO oxidation using the Taguchi method of experimental design. Research on Chemical Intermediates, 2019, 45, 4501-4515.	1.3	10
24	Ultrasound-assisted hydrothermal method for the preparation of the M-Fe2O3-CuO (M: Mn, Ag, Co) mixed oxides nanocatalysts for low-temperature CO oxidation. Ultrasonics Sonochemistry, 2019, 57, 212-222.	3.8	24
25	Mesoporous Ni/MeO (Meâ€¯=â€¯Al, Mg, Ti, and Si): Highly efficient catalysts in the decomposition of methane for hydrogen production. Applied Surface Science, 2019, 478, 581-593.	3.1	60
26	Supported Mn catalysts and the role of different supports in the catalytic oxidation of carbon monoxide. Chemical Engineering Science, 2019, 197, 37-51.	1.9	36
27	Preparation of Niâ€M (M: La, Co, Ce, and Fe) catalysts supported on mesoporous nanocrystalline Î³â€Al₂O₃ for CO₂ methanation. Environmental Progress and Sustainable Energy, 2019, 38, 118-126.	1.3	30
28	Production of syngas via glycerol dry reforming on Ni catalysts supported on mesoporous nanocrystalline Al2O3. Journal of CO2 Utilization, 2018, 24, 298-305.	3.3	45
29	Preparation and evaluation of mesoporous nickel and manganese bimetallic nanocatalysts in methane dry reforming process for syngas production. Journal of Chemical Sciences, 2018, 130, 1.	0.7	12
30	Preparation of nanocrystalline Zr, La and Mg-promoted 10% Ni/Ce 0.95 Mn 0.05 O 2 catalysts for syngas production via dry reforming reaction. International Journal of Hydrogen Energy, 2018, 43, 6532-6538.	3.8	19
31	Synthesis and Application of Noble Metal Nanocatalysts Supported on MgAl2O4 in Glycerol Dry Reforming Reaction. Catalysis Letters, 2018, 148, 164-172.	1.4	28
32	Effects of alkali promoters on the textural and catalytic properties of mesoporous Feâ€“Alâ€“Cu catalysts for water gas shift reaction. International Journal of Green Energy, 2018, 15, 28-36.	2.1	0
33	Promotional effect of Mg in trimetallic nickel-manganese-magnesium nanocrystalline catalysts in CO2 reforming of methane. International Journal of Hydrogen Energy, 2018, 43, 22347-22356.	3.8	16
34	Synthesis of nanocrystalline mesoporous Ni/Al2O3SiO2 catalysts for CO2 methanation reaction. International Journal of Hydrogen Energy, 2018, 43, 19038-19046.	3.8	63
35	Low temperature CO oxidation over mesoporous iron and copper mixed oxides nanopowders synthesized by a simple one-pot solid-state method. Chemical Engineering Research and Design, 2018, 119, 379-388.	2.7	18
36	Carbon dioxide methanation over Ni-M/Al2O3 (M:ÂFe, CO, Zr, La and Cu) catalysts synthesized using the one-pot sol-gel synthesis method. International Journal of Hydrogen Energy, 2018, 43, 16522-16533.	3.8	86

#	Article	IF	Citations
37	Thermocatalytic decomposition of methane over mesoporous Ni/xMgOÂ·Al2O3 nanocatalysts. International Journal of Hydrogen Energy, 2018, 43, 15112-15123.	3.8	32
38	Thermocatalytic conversion of methane to highly pure hydrogen over Niâ€“Cu/MgOÂ·Al2O3 catalysts: Influence of noble metals (Pt and Pd) on the catalytic activity and stability. Energy Conversion and Management, 2018, 166, 268-280.	4.4	50
39	Ultrasound assisted co-precipitation synthesis and catalytic performance of mesoporous nanocrystalline NiO-Al2O3 powders. Ultrasonics Sonochemistry, 2017, 34, 436-447.	3.8	47
40	Methane dissociation to COx-free hydrogen and carbon nanofiber over Ni-Cu/Al2O3 catalysts. Fuel, 2017, 195, 88-96.	3.4	64
41	Ni Catalysts Supported on Mesoporous Nanocrystalline Magnesium Silicate in Dry and Steam Reforming Reactions. Chemical Engineering and Technology, 2017, 40, 760-768.	0.9	14
42	Synthesis and characterization of nanocrystalline copperâ€“chromium catalyst and its application in the oxidation of carbon monoxide. Chemical Engineering Research and Design, 2017, 107, 181-189.	2.7	42
43	Enhanced activity of CO2 methanation over mesoporous nanocrystalline Niâ€“Al2O3 catalysts prepared by ultrasound-assisted co-precipitation method. International Journal of Hydrogen Energy, 2017, 42, 15115-15125.	3.8	92
44	Thermocatalytic decomposition of methane over mesoporous nanocrystalline promoted Ni/MgOÂ·Al2O3 catalysts. International Journal of Hydrogen Energy, 2017, 42, 16476-16488.	3.8	71
45	Glycerol steam reforming over noble metal nanocatalysts. Chemical Engineering Research and Design, 2017, 123, 360-366.	2.7	40
46	The influence of Ni loading on the activity and coke formation of ultrasound-assisted co-precipitated Niâ€“Al2O3 nanocatalyst in dry reforming of methane. International Journal of Hydrogen Energy, 2017, 42, 4155-4164.	3.8	102
47	Preparation and characterization of ultrasound-assisted co-precipitated nanocrystalline La-, Ce-, Zr â€“promoted Ni-Al2O3 catalysts for dry reforming reaction. Journal of CO2 Utilization, 2017, 22, 124-134.	3.3	64
48	Synthesis of nanocrystalline Ce0.95Mn0.05O2 solid solution powders as support for nickel catalyst in dry reforming reaction. Journal of Environmental Chemical Engineering, 2017, 5, 5493-5500.	3.3	25
49	Surfactant-assisted hydrothermal synthesis of CuCr2O4 spinel catalyst and its application in CO oxidation process. Journal of Environmental Chemical Engineering, 2017, 5, 4906-4916.	3.3	51
50	Preparation of mesoporous nanocrystalline 10% Ni/Ce1â^'xMnx O2 catalysts for dry reforming reaction. International Journal of Hydrogen Energy, 2017, 42, 24776-24784.	3.8	14
51	COx-free hydrogen and carbon nanofibers production by thermocatalytic decomposition of methane over mesoporous MgOÂ·Al2O3 nanopowder-supported nickel catalysts. Fuel Processing Technology, 2017, 167, 250-262.	3.7	40
52	A theoretical and experimental study of glycerol steam reforming over Rh/MgAl 2 O 4 catalysts. Energy Conversion and Management, 2017, 154, 127-137.	4.4	41
53	CO₂ Methanation on Nickel Catalysts Supported on Mesoporous Highâ€Surfaceâ€Area MgSiO₃. Chemical Engineering and Technology, 2017, 40, 1861-1866.	0.9	16
54	Nickel catalyst supported on mesoporous MgAl2O4 nanopowders synthesized via a homogenous precipitation method for dry reforming reaction. Research on Chemical Intermediates, 2017, 43, 545-559.	1.3	18

#	Article	IF	Citations
55	Preparation of mesoporous nanocrystalline Ni-MgAl2O4 catalysts by sol-gel combustion method and its applications in dry reforming reaction. Advanced Powder Technology, 2016, 27, 1963-1970.	2.0	35
56	Preparation of nanocrystalline Ni/Al₂O₃ catalysts with the microemulsion method for dry reforming of methane. Canadian Journal of Chemical Engineering, 2016, 94, 1177-1183.	0.9	16
57	Microemulsion synthesis method for preparation of mesoporous nanocrystalline Î³-Al2O3 powders as catalyst carrier for nickel catalyst in dry reforming reaction. International Journal of Hydrogen Energy, 2016, 41, 6353-6361.	3.8	34
58	Ni catalysts supported on nano-crystalline aluminum oxide prepared by a microemulsion method for dry reforming reaction. Research on Chemical Intermediates, 2016, 42, 6627-6642.	1.3	5
59	The effect of promoters on the CO2 reforming activity and coke formation of nanocrystalline Ni/Al2O3 catalysts prepared by microemulsion method. Korean Journal of Chemical Engineering, 2016, 33, 3359-3366.	1.2	15
60	Steam reforming of glycerol on mesoporous nanocrystalline Ni/Al 2 O 3 catalysts for H 2 production. International Journal of Hydrogen Energy, 2016, 41, 20137-20146.	3.8	52
61	Preparation of high temperature water gas shift catalyst with coprecipitation method in microemulsion system. Chemical Engineering Research and Design, 2016, 113, 9-16.	2.7	15
62	Effects of alkaline earth promoters on the catalytic performance of the nickel catalysts supported on high surface area mesoporous magnesium silicate in dry reforming reaction. International Journal of Hydrogen Energy, 2016, 41, 22913-22921.	3.8	28
63	Thermocatalytic decomposition of methane to COx-free hydrogen and carbon over Niâ€“Feâ€“Cu/Al2O3 catalysts. International Journal of Hydrogen Energy, 2016, 41, 13039-13049.	3.8	60
64	A comparative study of experimental investigation and response surface optimization of steam reforming of glycerol over nickel nano-catalysts. International Journal of Hydrogen Energy, 2016, 41, 10178-10192.	3.8	33
65	CO x -free hydrogen and carbon nanofibers production by methane decomposition over nickel-alumina catalysts. Korean Journal of Chemical Engineering, 2016, 33, 490-499.	1.2	44
66	Synthesis of nanostructured magnesium silicate with high surface area and mesoporous structure. Ceramics International, 2016, 42, 6883-6890.	2.3	27
67	Hydrogen and carbon nanofibers synthesis by methane decomposition over Niâ€“Pd/Al2O3 catalyst. International Journal of Hydrogen Energy, 2016, 41, 5494-5503.	3.8	87
68	Methane decomposition over Niâ€“Fe/Al2O3 catalysts for production of COx-free hydrogen and carbon nanofiber. International Journal of Hydrogen Energy, 2016, 41, 1574-1584.	3.8	125
69	Promoted Fe₂O₃â€Al₂O₃â€CuO Chromiumâ€Free Catalysts for Highâ€Temperature Waterâ€Gas Shift Reaction. Chemical Engineering and Technology, 2015, 38, 1380-1386.	0.9	11
70	Comparison of Preparation Methods of Ironâ€Based Catalysts for Highâ€Temperature Waterâ€Gas Shift Reaction. Chemical Engineering and Technology, 2015, 38, 1460-1468.	0.9	4
71	Preparation of nanocrystalline Fe2O3â€“Cr2O3â€“CuO powder by a modified urea hydrolysis method: A highly active and stable catalyst for high temperature water gas shift reaction. Materials Research Bulletin, 2015, 64, 418-424.	2.7	18
72	Preparation of Mesoporous Chromium Promoted Magnetite Based Catalysts for High Temperature Water Gas Shift Reaction. Industrial & Engineering Chemistry Research, 2015, 54, 1236-1242.	1.8	13

#	Article	IF	Citations
73	The effect of preparation factors on the structural and catalytic properties of mesoporous nanocrystalline iron-based catalysts for high temperature water gas shift reaction. Korean Journal of Chemical Engineering, 2015, 32, 1278-1288.	1.2	8
74	Preparation of mesoporous nanocrystalline alkali promoted chromium free catalysts (Fe₂O₃â€“Al₂O₃â€“NiO) for a high temperature water gas shift reaction. RSC Advances, 2015, 5, 9955-9964.	1.7	21
75	High-temperature water-gas shift reaction over nanostructured Cr-free Fe2O3Al2O3CuOMO (M: Ba, Ca,) Tj ETQq1 1 0.784314 rgBT /Ov 30, 353-358.	2.9	21
76	Applying Taguchi robust design to the optimization of the synthesis parameters of nanocrystalline Cr-free Feâ€“Alâ€“Cu catalyst for high temperature water gas shift reaction. Materials Research Bulletin, 2015, 70, 229-235.	2.7	9
77	Hydrogen production by high temperature water gas shift reaction over highly active and stable chromium free Feâ€“Alâ€“Ni catalysts. International Journal of Hydrogen Energy, 2015, 40, 10867-10875.	3.8	17
78	Simplified direct pyrolysis method for preparation of nanocrystalline iron based catalysts for H 2 purification via high temperature water gas shift reaction. Chemical Engineering Research and Design, 2015, 95, 288-297.	2.7	15
79	Dry reforming over CeO 2 -promoted Ni/MgO nano-catalyst: Effect of Ni loading and CH 4 /CO 2 molar ratio. Journal of Industrial and Engineering Chemistry, 2015, 21, 717-722.	2.9	93
80	Carbon dioxide reforming of methane for syngas production over Coâ€“MgO mixed oxide nanocatalysts. Journal of Industrial and Engineering Chemistry, 2015, 21, 662-667.	2.9	78
81	Mesoporous Ba-promoted chromium free Fe2O3â€“Al2O3â€“NiO catalyst with low methanation activity for high temperature water gas shift reaction. Catalysis Communications, 2015, 58, 26-29.	1.6	23
82	Preparation of nanocrystalline metal (Cr, Al, Mn, Ce, Ni, Co and Cu) modified ferrite catalysts for the high temperature water gas shift reaction. Renewable Energy, 2015, 74, 588-598.	4.3	50
83	Preparation of mesoporous nanocrystalline iron based catalysts for high temperature water gas shift reaction: Effect of preparation factors. Chemical Engineering Journal, 2015, 260, 107-116.	6.6	41
84	Characterization of CeO₂ Promoter of a Nanocrystalline Ni/MgO Catalyst in Dry Reforming of Methane. Chemical Engineering and Technology, 2014, 37, 957-963.	0.9	36
85	Preparation of highly active nickel catalysts supported on mesoporous nanocrystalline Î³-Al2O3 for CO2 methanation. Journal of Industrial and Engineering Chemistry, 2014, 20, 1346-1352.	2.9	219
86	Investigation of the catalytic performance of Ni/MgO catalysts in partial oxidation, dry reforming and combined reforming of methane. Journal of Industrial and Engineering Chemistry, 2014, 20, 1251-1260.	2.9	86
87	Preparation of promoted nickel catalysts supported on mesoporous nanocrystalline gamma alumina for carbon dioxide methanation reaction. Journal of Industrial and Engineering Chemistry, 2014, 20, 4176-4182.	2.9	86
88	Effects of support modifiers on the catalytic performance of Ni/Al2O3 catalyst in CO2 reforming of methane. Fuel, 2014, 129, 197-203.	3.4	126
89	Effect of Ni loadings on the activity and coke formation of MgO-modified Ni/Al2O3 nanocatalyst in dry reforming of methane. Journal of Energy Chemistry, 2014, 23, 633-638.	7.1	109
90	A highly active and stable chromium free iron based catalyst for H 2 purification in high temperature water gas shift reaction. International Journal of Hydrogen Energy, 2014, 39, 18302-18311.	3.8	17

#	Article	IF	Citations
91	Coprecipitated Niâ€Co Bimetallic Nanocatalysts for Methane Dry Reforming. Chemical Engineering and Technology, 2014, 37, 973-978.	0.9	34
92	High temperature water gas shift reaction over promoted iron based catalysts prepared by pyrolysis method. International Journal of Hydrogen Energy, 2014, 39, 16318-16328.	3.8	17
93	A facile method for preparation of iron based catalysts for high temperature water gas shift reaction. Journal of Industrial and Engineering Chemistry, 2014, 20, 3297-3302.	2.9	32
94	Effect of alkaline earth promoters (MgO, CaO, and BaO) on the activity and coke formation of Ni catalysts supported on nanocrystalline Al2O3 in dry reforming of methane. Journal of Industrial and Engineering Chemistry, 2014, 20, 2858-2863.	2.9	250
95	Nanocrystalline magnesium oxide as a solid base catalyst promoted one pot synthesis of gem-dichloroaziridine derivatives under thermal conditions. Journal of the Iranian Chemical Society, 2013, 10, 161-167.	1.2	7
96	Low temperature synthesis of nanocrystalline magnesium aluminate with high surface area by surfactant assisted precipitation method: Effect of preparation conditions. Materials Research Bulletin, 2012, 47, 2154-2160.	2.7	45
97	CO2 reforming of methane over nickel catalysts supported on nanocrystalline MgAl2O4 with high surface area. Journal of Natural Gas Chemistry, 2012, 21, 200-206.	1.8	81
98	Nickel catalyst supported on magnesium oxide with high surface area and plate-like shape: A highly stable and active catalyst in methane reforming with carbon dioxide. Catalysis Communications, 2011, 12, 1046-1050.	1.6	61
99	Ni catalysts supported on nanocrystalline magnesium oxide for syngas production by CO2 reforming of CH4. Journal of Natural Gas Chemistry, 2011, 20, 198-203.	1.8	36
100	Autothermal reforming of methane over Ni catalysts supported on nanocrystalline MgO with high surface area and plated-like shape. International Journal of Hydrogen Energy, 2011, 36, 11712-11717.	3.8	43
101	Nanocrystalline magnesium oxide: a novel and efficient catalyst for facile synthesis of 2,4,5-trisubstituted imidazole derivatives. Monatshefte FÃ¼r Chemie, 2010, 141, 1339-1345.	0.9	38
102	Effect of process parameters on the synthesis of nanocrystalline magnesium oxide with high surface area and plate-like shape by surfactant assisted precipitation method. Powder Technology, 2010, 199, 144-148.	2.1	54
103	Nanocrystalline MgO supported nickel-based bimetallic catalysts for carbon dioxide reforming of methane. International Journal of Hydrogen Energy, 2010, 35, 10295-10301.	3.8	92
104	Facile synthesis of nanocrystalline magnesium oxide with high surface area. Powder Technology, 2009, 196, 85-88.	2.1	87