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Glycerol steam reforming over modified Ni-based catalysts

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#	Paper	IF	Citations
50	Comparative study of Ni, Co, Cu supported on Alumina catalysts for hydrogen production via the glycerol steam reforming reaction. <i>Fuel Processing Technology</i> , 2016 , 152, 156-175	7.2	142
49	Hydrogen production via the glycerol steam reforming reaction over nickel supported on alumina and lanthana-alumina catalysts. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13039-13060	6.7	75
48	Glycerol Steam Reforming for Hydrogen Production over Nickel Supported on Alumina, Zirconia and Silica Catalysts. <i>Topics in Catalysis</i> , 2017 , 60, 1226-1250	2.3	66
47	Glycerol steam reforming over modified Ru/Al ₂ O ₃ catalysts. <i>Applied Catalysis A: General</i> , 2017 , 542, 201-211	5.1	25
46	Hydrogen Production from Oxygenated Hydrocarbons: Review of Catalyst Development, Reaction Mechanism and Reactor Modeling. 2017 , 1-76		2
45	Renewable hydrogen from glycerol reforming over nickel aluminate-based catalysts. <i>Catalysis Today</i> , 2017 , 289, 96-104	5.3	33
44	Energy recovery from waste glycerol by utilizing thermal water vapor plasma. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 10030-10040	5.1	14
43	Glycerol Production and Transformation: A Critical Review with Particular Emphasis on Glycerol Reforming Reaction for Producing Hydrogen in Conventional and Membrane Reactors. <i>Membranes</i> , 2017 , 7,	3.8	76
42	Chemical looping steam reforming of acetic acid in a packed bed reactor. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 258-268	21.8	23
41	Ni ₂ Cu and Ni ₂ Co Supported on LaMg Based Metal Oxides Prepared by Coprecipitation and Impregnation for Superior Hydrogen Production via Steam Reforming of Glycerol. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4785-4797	3.9	38
40	Theoretical study of adsorption and dehydrogenation of C ₂ H ₄ on Cu(410). <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 485-491	0.9	4
39	Glycerol steam reforming over Ru-Mg-Al hydrotalcite-derived mixed oxides: Role of the preparation method in catalytic activity. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 19864-19872	6.7	15
38	Effects of attapulgite-supported transition metals catalysts on glycerol steam reforming for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20451-20464	6.7	21
37	The potential of glycerol and phenol towards H ₂ production using steam reforming reaction: A review. <i>Surface and Coatings Technology</i> , 2018 , 352, 92-111	4.4	54
36	Hydrogen production by glycerol steam reforming over Ni based catalysts prepared by different methods. <i>Biomass and Bioenergy</i> , 2019 , 130, 105358	5.3	30
35	Titanium Dioxide-Based Nanocomposites for Enhanced Gas-Phase Photodehydrogenation. <i>Materials</i> , 2019 , 12,	3.5	4
34	The role of Zr in NiZrAl oxides catalyst and the evaluation on steam reforming of glycerol for hydrogen product. <i>Catalysis Today</i> , 2019 , 319, 229-238	5.3	18

33	Steam reforming of typical small organics derived from bio-oil: Correlation of their reaction behaviors with molecular structures. <i>Fuel</i> , 2020 , 259, 116214	7.1	20
32	Hydrogen production through glycerol steam reforming over beehive-biomimetic graphene-encapsulated nickel catalysts. <i>Renewable Energy</i> , 2020 , 145, 2647-2657	8.1	16
31	Steam reforming of methanol, ethanol and glycerol over nickel-based catalysts-A review. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18090-18113	6.7	52
30	A novel synthesis of NiAl ₂ O ₄ spinel from a Ni-Al mixed-metal alkoxide as a highly efficient catalyst for hydrogen production by glycerol steam reforming. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118535	21.8	34
29	Catalytic reforming of oxygenated hydrocarbons for the hydrogen production: an outlook. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1-24	2.3	10
28	A Review on Catalysts Development for Steam Reforming of Biodiesel Derived Glycerol; Promoters and Supports. <i>Catalysts</i> , 2020 , 10, 910	4	14
27	Enhanced catalytic upgrading of glycerol into high value-added H ₂ and propanediols: Recent developments and future perspectives. <i>Molecular Catalysis</i> , 2020 , 490, 110928	3.3	9
26	Hydrogen production through glycerol steam reforming over the NiCe _x Al catalysts. <i>Renewable Energy</i> , 2020 , 158, 192-201	8.1	15
25	Bioalcohol Reforming: An Overview of the Recent Advances for the Enhancement of Catalyst Stability. <i>Catalysts</i> , 2020 , 10, 665	4	18
24	A Highly Stable and Efficient CoMgBr Mixed Oxide Catalysts for Hydrogen Production from Glycerol Steam Reforming. <i>Catalysis Letters</i> , 2020 , 150, 2734-2743	2.8	7
23	Effect of La promotion on Ni/Mg-Al hydrotalcite derived catalysts for glycerol steam reforming. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104228	6.8	19
22	Renewable hydrogen production from steam reforming of glycerol (SRG) over ceria-modified Alumina supported Ni catalyst. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2328-2336	3.2	5
21	Ni supported on the CaO modified attapulgite as catalysts for hydrogen production from glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8223-8233	6.7	24
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19	Rhenium borides (Re ₃ B and ReB ₂) mechanosynthesis and their use as a catalyst for H ₂ production from biomass pyrolysis. <i>Materials Research Bulletin</i> , 2021 , 137, 111180	5.1	1
18	Exergoenvironmental analysis of hydrogen production through glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 1385-1402	6.7	10
17	Sustainable and selective hydrogen production by steam reforming of bio-based ethylene glycol: Design and development of NiCu/mixed metal oxides using M (CeO ₂ , La ₂ O ₃ , ZrO ₂)MgO mixed oxides. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 4808-4826	6.7	9
16	Hydrogen production by ethanol steam reforming over M-Ni/sepiolite (M=La, Mg or Ca) catalysts. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21796-21811	6.7	7

15	Sequence of Ni/SiO ₂ and Cu/SiO ₂ in dual catalyst bed significantly impacts coke properties in glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 26367-26380	6.7	2
14	Preparation and evaluation of Ni/Al ₂ O ₃ catalysts promoted by alkaline earth metals in glycerol reforming with carbon dioxide. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 24991-25003	6.7	5
13	Process intensification for hydrogen production through glycerol steam reforming. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 146, 111151	16.2	12
12	Recent Advances in Steam Reforming of Glycerol for Syngas Production. 2020 , 399-425		7
11	Bimetallic Ni-M (M = Co, Cu and Zn) supported on attapulgite as catalysts for hydrogen production from glycerol steam reforming. <i>Applied Catalysis A: General</i> , 2018 , 550, 214-227	5.1	63
10	Enhanced syngas production from glycerol dry reforming over Ru promoted -Ni catalyst supported on extracted Al ₂ O ₃ . <i>Fuel</i> , 2022 , 314, 123050	7.1	2
9	Nanoarchitectonics of Ni/CeO Catalysts: The Effect of Pretreatment on the Low-Temperature Steam Reforming of Glycerol.. <i>Nanomaterials</i> , 2022 , 12,	5.4	1
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6	Nickel encapsulated in silicalite-1 zeolite catalysts for steam reforming of glycerol (SRG) towards renewable hydrogen production. <i>Fuel Processing Technology</i> , 2022 , 233, 107306	7.2	0
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3	Steam reforming of bio-alcohols over Ni-M (Cu, Co, Pt)/MCF-S (MgO, La ₂ O ₃ , CeO ₂) for renewable and selective hydrogen production: Synergistic effect of MCF silica and basic oxides on activity and stability profiles. 2022 ,		1
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