

# Thermodynamic analysis of carbon dioxide reforming of formation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Thermodynamic and experimental study of combined dry and steam reforming of methane on Ru/ZrO <sub>2</sub> -La <sub>2</sub> O <sub>3</sub> catalyst at low temperature. International Journal of Hydrogen Energy, 2011, 36, 15212-15220.	3.8	129
2	Studies on the steam and CO <sub>2</sub> reforming of methane for GTL-FPSO applications. Catalysis Today, 2011, 174, 31-36.	2.2	33
3	A thermodynamic analysis of methanation reactions of carbon oxides for the production of synthetic natural gas. RSC Advances, 2012, 2, 2358.	1.7	619
4	The role of CO <sub>2</sub> in hydrocarbon reforming catalysis: friend or foe?. Current Opinion in Chemical Engineering, 2012, 1, 272-280.	3.8	21
5	Thermodynamic analysis of combined reforming process using Gibbs energy minimization method: In view of solid carbon formation. Journal of Natural Gas Chemistry, 2012, 21, 694-702.	1.8	44
6	Highly stable ytterbium promoted Ni/γ-Al <sub>2</sub> O <sub>3</sub> catalysts for carbon dioxide reforming of methane. Applied Catalysis B: Environmental, 2012, 119-120, 217-226.	10.8	110
7	Combined steam and dry reforming of methane in narrow channel reactors. International Journal of Hydrogen Energy, 2012, 37, 7538-7544.	3.8	25
8	Optimization of equilibrium carbon dioxide methane reforming parameters by the Gibbs free energy minimization method. Russian Journal of Physical Chemistry A, 2012, 86, 741-746.	0.1	1
9	Hydrogen production via CO <sub>2</sub> -reforming of methane over Cu and Co doped Ni/Al <sub>2</sub> O <sub>3</sub> nanocatalyst: impregnation versus sol-gel method and effect of process conditions and promoter. Journal of Sol-Gel Science and Technology, 2013, 67, 601-617.	1.1	95
10	Recent Advances on the Catalysts for Activation of CO <sub>2</sub> in Several Typical Processes. , 2013, , 189-222.		2
11	The Applications of Lithium Zirconium Silicate at High Temperature for the Carbon Dioxide Sorption and Conversion to Syn-gas. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	7
12	Stabilities of zeolite-supported Ni catalysts for dry reforming of methane. Chinese Journal of Catalysis, 2013, 34, 764-768.	6.9	60
13	Pyrolysis of Switchgrass ( <i>Panicum virgatum</i> L.) at Low Temperatures within N <sub>2</sub> and CO <sub>2</sub> Environments: Product Yield Study. ACS Sustainable Chemistry and Engineering, 2013, 1, 198-204.	3.2	59
14	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.	3.1	112
15	Temperature influence on the reactivity of plasma species on a nickel catalyst surface: An atomic scale study. Catalysis Today, 2013, 211, 131-136.	2.2	35
16	Sol-derived AuNi/MgAl <sub>2</sub> O <sub>4</sub> catalysts: Formation, structure and activity in dry reforming of methane. Applied Catalysis A: General, 2013, 468, 250-259.	2.2	45
17	Syngas production by carbon dioxide reforming of methane over different semi-coke. Journal of Power Sources, 2013, 231, 82-90.	4.0	39
18	Pt/Al <sub>2</sub> O <sub>3</sub> -catalytic deoxygenation for upgrading of <i>Leucaena leucocephala</i> -pyrolysis oil. Bioresource Technology, 2013, 139, 128-135.	4.8	52

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19	Steam-CO <sub>2</sub> reforming of methane on Ni/Al <sub>2</sub> O <sub>3</sub> -deposited metallic foam catalyst for GTL-FPSO process. Fuel Processing Technology, 2013, 112, 28-34.	3.7	28
20	Transient studies of low-temperature dry reforming of methane over Ni-CaO/ZrO <sub>2</sub> -La <sub>2</sub> O <sub>3</sub> . Applied Catalysis B: Environmental, 2013, 129, 450-459.	10.8	120
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24	Utilization of surplus electricity from wind power for dynamic biogas upgrading: Northern Germany case study. Biomass and Bioenergy, 2014, 66, 126-132.	2.9	87
25	Thermoneutral conditions in dry reforming of ethanol. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 196-204.	0.8	5
26	Catalytic Hydrogen Production via Dry Reforming of Methane Over Ni/Ce <sub>0.65</sub> Hf <sub>0.25</sub> Mo <sub>1.0</sub> (M <sub>A</sub> = <sub>A</sub> Tb, Sm.) Tj ETQq1 1 0.784314 rg	1.4	11
27	CO methanation over ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> supported Ni catalysts: A comprehensive study. Fuel Processing Technology, 2014, 124, 61-69.	3.7	79
28	Methane dry reformer by application of chemical looping combustion via Mn-based oxygen carrier for heat supplying and carbon dioxide providing. Chemical Engineering and Processing: Process Intensification, 2014, 79, 69-79.	1.8	8
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36	Comparative Study on Thermodynamic Analysis of CO <sub>2</sub> Utilization Reactions. Chemical Engineering and Technology, 2014, 37, 1765-1777.	0.9	64

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45	A comparative study between modeling and experimental results over rhodium supported catalyst in dry reforming reaction. <i>Fuel</i> , 2014, 134, 565-572.	3.4	16
46	Diesel auto-thermal reforming for solid oxide fuel cell systems: Anode off-gas recycle simulation. <i>Applied Energy</i> , 2014, 130, 94-102.	5.1	27
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56	Effect of metal-support interactions in Ni/Al <sub>2</sub> O <sub>3</sub> catalysts with low metal loading for methane dry reforming. <i>Applied Catalysis A: General</i> , 2015, 494, 57-67.	2.2	106
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64	Technical analysis of hydrogen-rich stream generation through CO <sub>2</sub> reforming of biogas by using numerical modeling. <i>Fuel</i> , 2015, 158, 538-548.	3.4	30
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98	Model-based analysis of CO <sub>2</sub> revalorization for di-methyl ether synthesis driven by solar catalytic reforming. <i>Applied Energy</i> , 2016, 177, 863-878.	5.1	15
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110	Thermodynamic Equilibrium Analysis of Propane Dehydrogenation with Carbon Dioxide and Side Reactions. <i>Chemical Engineering Communications</i> , 2016, 203, 557-565.	1.5	23
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112	Alkaline-promoted Co-Ni bimetal ordered mesoporous catalysts with enhanced coke-resistant performance toward CO <sub>2</sub> reforming of CH <sub>4</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 18, 1-14.	3.3	52
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122	A combined thermo-kinetic analysis of various methane reforming technologies: Comparison with dry reforming. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 17, 99-111.	3.3	90
123	Syngas production via the biogas dry reforming reaction over Ni supported on zirconia modified with CeO <sub>2</sub> or La <sub>2</sub> O <sub>3</sub> catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13724-13740.	3.8	160
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125	Low temperature dry reforming of methane over Pd-CeO <sub>2</sub> nanocatalyst. <i>Catalysis Communications</i> , 2017, 92, 19-22.	1.6	76
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274	CeNiAlO <sub>1.5</sub> HZOY nano-oxyhydrides for H <sub>2</sub> production by oxidative dry reforming of CH <sub>4</sub> without carbon formation. <i>Applied Catalysis A: General</i> , 2020, 594, 117439.	2.2	5
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282	Syngas production via microwave-assisted dry reforming of methane. <i>Catalysis Today</i> , 2021, 362, 72-80.	2.2	42
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296	Techno-energy-economic sensitivity analysis of hybrid system Solid Oxide Fuel Cell/Gas Turbine. <i>AIMS Energy</i> , 2021, 9, 934-990.	1.1	12
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385	Toward syngas production from simulated biogas dry reforming: Promotional effect of calcium on cobalt-based catalysts performance. <i>Fuel</i> , 2022, 326, 125106.	3.4	21
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387	Effect of interstitial carbon atoms in core-shell Ni <sub>3</sub> ZnCo <sub>7</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst for high-performance dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121806.	10.8	14
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391	Synthesis of high sintering-resistant Ni-modified halloysite based catalysts containing La, Ce, and Co for dry reforming of methane. <i>Ceramics International</i> , 2022, 48, 37394-37402.	2.3	11
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