

Tar reduction in biomass producer gas via mechanical, chemical and biological processes: a review

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Gas Upgrading in a Downdraft Fixed-Bed Reactor Downstream of a Fluidized-Bed Coal Pyrolyzer. <i>Energy & Fuels</i> , 2011, 25, 5242-5249.	2.5	50
2	Removal of Tar during Pine Sawdust Fast Pyrolysis with Catalysts. <i>Advanced Materials Research</i> , 0, 512-515, 449-454.	0.3	0
3	Gas cleaning strategies for biomass gasification product gas. <i>International Journal of Low-Carbon Technologies</i> , 2012, 7, 69-74.	1.2	40
4	Recent Progress in Biomass Tar Catalytic Cracking Method Research. <i>Advanced Materials Research</i> , 0, 608-609, 448-452.	0.3	3
5	The effect of variable fuel composition on a swirl-stabilised producer gas combustor. <i>Energy Conversion and Management</i> , 2012, 64, 52-61.	4.4	8
6	Comparison of steam reforming and partial oxidation of biomass pyrolysis tars over activated carbon derived from waste tire. <i>Catalysis Today</i> , 2012, 196, 67-74.	2.2	33
7	Effect of Calcination Temperature on Characteristics and Performance of Ni/MgO Catalyst for CO ₂ Reforming of Toluene. <i>Chinese Journal of Catalysis</i> , 2012, 33, 1508-1516.	6.9	18
8	Carbon Deposition of Biotar from Pine Sawdust by Chemical Vapor Infiltration on Steelmaking Slag as a Supplementary Fuel in Steelworks. <i>Energy & Fuels</i> , 2012, 26, 3196-3200.	2.5	20
9	Sustainable energy: A review of gasification technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4753-4762.	8.2	260
10	Catalyst Properties and Catalytic Performance of Char from Biomass Gasification. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13113-13122.	1.8	117
11	Removal characteristics of tar benzene using the externally oscillated plasma reformer. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 57-58, 65-74.	1.8	19
12	Experimental study of Ni/MgO catalyst in carbon dioxide reforming of toluene, a model compound of tar from biomass gasification. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13355-13364.	3.8	56
13	Characteristics of cyclone gasification of rice husk. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16962-16966.	3.8	21
14	Design and experimental investigation of a 190kW biomass fixed bed gasification and polygeneration pilot plant using a double air stage downdraft approach. <i>Energy</i> , 2012, 46, 140-147.	4.5	70
15	Performance of tar removal by absorption and adsorption for biomass gasification. <i>Fuel Processing Technology</i> , 2012, 104, 144-154.	3.7	127
16	A short overview on purification and conditioning of syngas produced by biomass gasification: Catalytic strategies, process intensification and new concepts. <i>Progress in Energy and Combustion Science</i> , 2012, 38, 765-781.	15.8	234
17	The effect of temperature on various parameters in coal, biomass and CO-gasification: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5584-5596.	8.2	274
18	Activity of Ni catalysts for hydrogen production via biomass pyrolysis. <i>Kinetics and Catalysis</i> , 2012, 53, 565-569.	0.3	33

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19	Sulfur Tolerant Magnesium Nickel Silicate Catalyst for Reforming of Biomass Gasification Products to Syngas. <i>Catalysts</i> , 2012, 2, 264-280.	1.6	11
20	Experimental study on two-stage air supply downdraft gasifier and dual fuel engine system. <i>Biomass Conversion and Biorefinery</i> , 2012, 2, 159-168.	2.9	7
21	Effect of Fe-olivine on the tar content during biomass gasification in a dual fluidized bed. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 214-222.	10.8	163
22	Catalytic performance and characterization of Ni-Co catalysts for the steam reforming of biomass tar to synthesis gas. <i>Fuel</i> , 2013, 112, 654-661.	3.4	215
23	Properties of biomass vs. coal fly ashes deposited in electrostatic precipitator. <i>Journal of Electrostatics</i> , 2013, 71, 165-175.	1.0	38
24	The aluminum silicate catalyst effect on efficiency of energy yield in gasification of paper-reject sludge. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15787-15793.	3.8	9
25	Syngas production by CO ₂ /O ₂ gasification of aquatic biomass. <i>Fuel Processing Technology</i> , 2013, 116, 9-15.	3.7	42
26	Investigation of combined catalyst and oxygen carrier systems for the partial oxidation of naphthalene as model tar from biomass gasification. <i>Biomass and Bioenergy</i> , 2013, 53, 65-71.	2.9	10
27	Gas Catalytic Upgrading in a Two-Zone Fluidized Bed Reactor Coupled to a Cogasification Plant. <i>Energy & Fuels</i> , 2013, 27, 2835-2845.	2.5	12
28	Modelling of tar formation and evolution for biomass gasification: A review. <i>Applied Energy</i> , 2013, 111, 129-141.	5.1	265
29	Ilmenite and Nickel as Catalysts for Upgrading of Raw Gas Derived from Biomass Gasification. <i>Energy & Fuels</i> , 2013, 27, 997-1007.	2.5	61
30	Recent progresses in catalytic tar elimination during biomass gasification or pyrolysis—A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 21, 371-392.	8.2	465
31	Syngas from steam gasification of polyethylene in a conical spouted bed reactor. <i>Fuel</i> , 2013, 109, 461-469.	3.4	146
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35	Steam gasification of biomass in a conical spouted bed reactor with olivine and γ -alumina as primary catalysts. <i>Fuel Processing Technology</i> , 2013, 116, 292-299.	3.7	100
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38	Detailed Analysis of Residual Volatiles in Chars from the Pyrolysis of Biomass and Lignite. Energy & Fuels, 2013, 27, 3209-3223.	2.5	21
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