

Recent advances in syngas production from biomass ca
review on reactors, catalysts, catalytic mechanisms and

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Citation Report

#	ARTICLE	IF	CITATIONS
1	In Situ Upgrading of Cellulose Pyrolysis Volatiles Using Hydrofluorinated and Platinum-Loaded HZSM-5 for High Selectivity Production of Light Aromatics. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22193-22201.	1.8	36
2	Methanation of syngas from biomass gasification: An overview. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4223-4243.	3.8	119
3	Mini-Review on Char Catalysts for Tar Reforming during Biomass Gasification: The Importance of Char Structure. <i>Energy & Fuels</i> , 2020, 34, 1219-1229.	2.5	98
4	Lipid extraction from microalgae covered with biomineralized cell walls using liquefied dimethyl ether. <i>Fuel</i> , 2020, 262, 116590.	3.4	45
5	Valorizing petroleum coke into hydrogen-rich syngas through K-promoted catalytic steam gasification. <i>Journal of the Energy Institute</i> , 2020, 93, 2544-2549.	2.7	19
6	Renewable Energy Products through Bioremediation of Wastewater. <i>Sustainability</i> , 2020, 12, 7501.	1.6	29
7	Thermodynamic evaluation of CCHP system based on biomass gasification by exploring the feasibility of using CO ₂ as gasification agent. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100867.	1.7	7
8	Seeded-growth preparation of high-performance Ni/MgAl ₂ O ₄ catalysts for tar steam reforming. <i>New Journal of Chemistry</i> , 2020, 44, 13692-13700.	1.4	11
9	Assessment of biomass demineralization on gasification: From experimental investigation, mechanism to potential application. <i>Science of the Total Environment</i> , 2020, 726, 138634.	3.9	28
10	Fuel gas production and char upgrading by catalytic CO ₂ gasification of pine sawdust char. <i>Fuel</i> , 2020, 280, 118686.	3.4	23
11	Syngas Derived from Lignocellulosic Biomass Gasification as an Alternative Resource for Innovative Bioprocesses. <i>Processes</i> , 2020, 8, 1567.	1.3	42
12	Highly selective aromatic ring hydrogenation of lignin-derived compounds over macroporous Ru/Nb ₂ O ₅ with the lost acidity at room temperature. <i>Fuel</i> , 2020, 282, 118869.	3.4	27
13	One-step preparation of a N-CNTs@Ni foam electrode material with the co-production of H ₂ by catalytic reforming of N-containing compound of biomass tar. <i>Fuel</i> , 2020, 280, 118601.	3.4	9
14	Resistance of Ni/perovskite catalysts to H ₂ S in toluene steam reforming for H ₂ production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26800-26811.	3.8	24
15	A Review on Biomass Gasification: Effect of Main Parameters on Char Generation and Reaction. <i>Energy & Fuels</i> , 2020, 34, 13438-13455.	2.5	47
16	Effect of Olive Kernel thermal treatment (torrefaction vs. slow pyrolysis) on the physicochemical characteristics and the CO ₂ or H ₂ O gasification performance of as-prepared biochars. <i>International Journal of Hydrogen Energy</i> , 2020, . .	3.8	27
17	Gasification-based biorefinery integration in the pulp and paper industry: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 133, 110210.	8.2	26
18	One-step synthesis of biochar-supported potassium-iron catalyst for catalytic cracking of biomass pyrolysis tar. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 16398-16408.	3.8	51

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19	Catalytic Fast Pyrolysis of Sewage Sludge over HZSM-5: A Study of Light Aromatics, Coke, and Nitrogen Migration under Different Atmospheres. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17537-17545.	1.8	14
20	Coke Formation during Thermal Treatment of Bio-oil. <i>Energy & Fuels</i> , 2020, 34, 7863-7914.	2.5	123
21	Thermal management of a new integrated copper-chlorine cycle for hydrogen production. <i>Energy Conversion and Management</i> , 2020, 212, 112629.	4.4	22
22	Syngas Production, Clean-Up and Wastewater Management in a Demo-Scale Fixed-Bed Updraft Biomass Gasification Unit. <i>Energies</i> , 2020, 13, 2594.	1.6	31
23	Ru-Promoted Ni/Al ₂ O ₃ Fluidized Catalyst for Biomass Gasification. <i>Catalysts</i> , 2020, 10, 316.	1.6	11
24	Adaptable kinetic model for the transient and pseudo-steady states in the hydrodeoxygenation of raw bio-oil. <i>Chemical Engineering Journal</i> , 2020, 400, 124679.	6.6	19
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29	Catalyst experiencing distinct reaction histories in one reactor bed results in coke of different properties in steam reforming. <i>Fuel</i> , 2020, 269, 117427.	3.4	15
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31	Moisture adsorption and spontaneous combustion characteristics of biomass wastes after degradative solvent extraction. <i>Fuel</i> , 2020, 266, 117109.	3.4	24
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33	Highly active and stable HF acid modified HZSM-5 supported Ni catalysts for steam reforming of toluene and biomass pyrolysis tar. <i>Energy Conversion and Management</i> , 2020, 212, 112799.	4.4	50
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35	Energy analysis of updraft and downdraft fixed bed gasification of village-level solid waste. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 221-233.	3.8	28
36	Hydrogen production from absorption-enhanced steam gasification of <i>Enteromorpha prolifera</i> and its char using Ce-doped CaO material. <i>Fuel</i> , 2021, 287, 119554.	3.4	26

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38	Carbon monoxide and hydrogen (syngas) as a C1-building block for selective catalytic methylation. <i>Chemical Science</i> , 2021, 12, 976-982.	3.7	23
39	Towards enhanced catalytic reactivity in CO ₂ -assisted gasification of polypropylene. <i>Fuel</i> , 2021, 284, 119076.	3.4	19
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48	Carbon-Based Materials as Catalyst Supports for Fischer-Tropsch Synthesis: A Review. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	30
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57	Study on gasification characteristics of pine sawdust using olivine as in-bed material for combustible gas production. <i>Journal of the Energy Institute</i> , 2021, 96, 168-172.	2.7	13
58	Visible light-driven conversion of carboxylic acids into esters for enhanced algal bio-crude oil catalyzed by cadmium sulfide quantum dots (CdS-QDs). <i>Fuel Processing Technology</i> , 2021, 216, 106778.	3.7	8
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60	An insight into the OPAHs and SPAHs formation mechanisms during alkaline lignin pyrolysis at different temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105104.	2.6	8
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74	Hydrothermal systems to obtain high value-added compounds from macroalgae for bioeconomy and biorefineries. <i>Bioresource Technology</i> , 2022, 343, 126017.	4.8	19
75	Recycling spent ternary lithium-ion batteries for modification of dolomite used in catalytic biomass pyrolysis – A preliminary study by thermogravimetric and pyrolysis-gas chromatography/mass spectrometry analysis. <i>Bioresource Technology</i> , 2021, 337, 125476.	4.8	21
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