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Biomass gasification under high solar heat flux: Advanced modelling

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#	Paper	IF	Citations
12	Influence of pellet size on product yields and syngas composition during solar-driven high temperature fast pyrolysis of biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 140, 299-311	6	15
11	A Two-Dimensional Study on the Effect of Anisotropy on the Devolatilization of a Large Wood Log. <i>Energies</i> , 2019 , 12, 4430	3.1	1
10	Thermodynamic analysis of fuel cell combined cooling heating and power system integrated with solar reforming of natural gas. <i>Solar Energy</i> , 2020 , 206, 396-412	6.8	10
9	Concentrated solar thermochemical gasification of biomass: Principles, applications, and development. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111484	16.2	21
8	Pyrolysis of carbonaceous feedstock driven by concentrated solar energy. <i>Advances in Chemical Engineering</i> , 2021 , 58, 131-196	0.6	1
7	A robust two-dimensional model for the pyrolysis of plastic waste driven by self-sustaining smoldering. <i>Chemical Engineering Research and Design</i> , 2022 ,	5.5	0
6	Solar pyrolysis of biomass - part I: Volatile evolution mechanism. <i>Energy Conversion and Management</i> , 2022 , 267, 115951	10.6	1
5	Multi-dimensional shrinkage models developed by phase field method for gasification of carbonaceous feedstock in packed-bed solar reactor. 2023 , 331, 125749		2
4	Solar pyrolysis of biomass - part II: The physicochemical structure evolution of char. 2023 , 333, 126474		1
3	Chapter 1. Process Synthesis of BTL, LCA (Scale, Coproduction). 2022 , 1-47		0
2	Design of a Self-Management Solar Pyrolysis Packed-Bed Reactor by Coupling Thermal Energy Storage. 2023 , 37, 2134-2148		0
1	A multidimensional numeric study on smoldering-driven pyrolysis of waste polypropylene. 2023 , 172, 305-316		0