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Electrified methane reforming: Elucidating transient phenom

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#	Paper	IF	Citations
24	Radio-frequency induction heating powered low-temperature catalytic CO <sub>2</sub> conversion via bi-reforming of methane. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132934	14.7	1
23	Electrical Reverse Shift: Sustainable CO <sub>2</sub> Valorization for Industrial Scale. <i>Angewandte Chemie</i> , e202109696	16.4	0
22	Electrical Reverse Shift: Sustainable CO <sub>2</sub> Valorization for Industrial Scale.. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	0
21	Recent Advances in the Development of Highly Conductive Structured Supports for the Intensification of Non-adiabatic Gas-Solid Catalytic Processes: The Methane Steam Reforming Case Study. <i>Frontiers in Chemical Engineering</i> , <b>2022</b> , 3,	1	0
20	Electrified methane steam reforming on a washcoated SiSiC foam for low-carbon hydrogen production. <i>AICHE Journal</i> ,	3.6	2
19	CO <sub>2</sub> conversion to syngas via electrification of endothermal reactors: Process design and environmental impact analysis. <i>Energy Conversion and Management</i> , <b>2022</b> , 265, 115763	10.6	0
18	Improving the radial heat transport and heat distribution in catalytic gas-solid reactors. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2022</b> , 177, 108996	3.7	0
17	Mesoporous silica supported Ni-based catalysts for methane dry reforming: A review of recent studies. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> ,	6.7	6
16	Optimization of operating parameters for methane steam reforming thermochemical process using Response Surface Methodology. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> ,	6.7	1
15	Research Progress on Magnetic Catalysts and Its Application in Hydrogen Production Area. <i>Energies</i> , <b>2022</b> , 15, 5327	3.1	0
14	Microwave assisted steam reforming in a high efficiency catalytic reactor. <b>2022</b> , 197, 893-901		1
13	Electrified steam cracking for a carbon neutral ethylene production process: Techno-economic analysis, life cycle assessment, and analytic hierarchy process. <b>2022</b> , 270, 116256		0
12	Electrically heated monolithic catalyst for in-situ hydrogen production by methanol steam reforming. <b>2022</b> ,		0
11	A perspective on power-to-heat in catalytic processes for decarbonization. <b>2022</b> , 182, 109187		0
10	Electrothermal Catalysis for heterogeneous reaction: Mechanisms and design strategies. <b>2022</b> , 140272		0
9	Optimization of biogas-reforming conditions considering carbon formation, hydrogen production, and energy efficiencies. <b>2023</b> , 265, 126273		0
8	Decarbonization of the chemical industry through electrification: Barriers and opportunities. <b>2023</b> , 7, 23-41		0

- 7 Heat decarbonization: Toward a sustainable utility system. **2023**, 7, 15-17 ○
- 6 Direct electrification of Rh/Al<sub>2</sub>O<sub>3</sub> washcoated SiSiC foams for methane steam reforming: An experimental and modelling study. **2023**, ○
- 5 Blue hydrogen: Current status and future technologies. **2023**, 283, 116840 ○
- 4 Carbon-neutral hydrogen production from natural gas via electrified steam reforming: Techno-economic-environmental perspective. **2023**, 279, 116758 1
- 3 Biomass to H<sub>2</sub>: Evaluation of the Impact of PV and TES Power Supply on the Performance of an Integrated Bio-Thermo-Chemical Upgrading Process for Wet Residual Biomass. **2023**, 16, 2966 ○
- 2 Feasibility of electricity generation based on an ammonia-to-hydrogen-to-power system. ○
- 1 Electrified CO<sub>2</sub> valorization driven by direct Joule heating of catalytic cellular substrates. **2023**, 143154 ○