

Reviewing H₂ Combustion: A Case Study for Safety in Passive Autocatalytic Recombiners

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The effects of bismuth and tin on the mechanochemical processing of aluminum-based composites for hydrogen generation purposes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21896-21912.	7.1	41
2	Development of a Pt/stainless steel mesh catalyst and its application in catalytic hydrogen combustion. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27094-27106.	7.1	30
3	Concept of hydrogen fired gas turbine cycle with exhaust gas recirculation: Assessment of process performance. <i>Energy</i> , 2020, 192, 116646.	8.8	57
4	A highly diluted oxy-fuel micromixer combustor with hydrogen enrichment for enhancing turndown in gas turbines. <i>Applied Energy</i> , 2020, 279, 115818.	10.1	20
5	Temperature Profile Mapping over a Catalytic Unit of a Hydrogen Passive Autocatalytic Recombiner: An Experimental and Computational Fluid Dynamics Study. <i>Energy & Fuels</i> , 2020, 34, 11637-11649.	5.1	16
6	Performance evaluation and emissions reduction of a micro gas turbine via the co-combustion of H ₂ /CH ₄ /CO ₂ fuel blends. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 39, 100718.	2.7	15
7	Thermally stable Pt/Ti mesh catalyst for catalytic hydrogen combustion. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 16851-16864.	7.1	27
8	Selective hydrogen combustion in the presence of propylene and propane over Pt/A-zeolite catalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 12347-12359.	7.1	5
9	Preparation of Branch Polyethyleneimine (BPEI) Crosslinked Anion Exchange Membrane Based on Poly(styrene- <i>b</i> -[ethylene-co-butylene]- <i>b</i> -styrene) (SEBS). <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000693.	3.6	15
10	On the quality of micromixing in an oxy-fuel micromixer burner for gas turbine applications: A numerical study. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 162, 108336.	3.6	7
11	Review on Solar Hydrogen: Its Prospects and Limitations. <i>Energy & Fuels</i> , 2021, 35, 11613-11639.	5.1	48
12	Effects of jet diameter and spacing in a micromixer-like burner for clean oxy-fuel combustion in gas turbines. <i>Energy</i> , 2021, 228, 120561.	8.8	12
13	Catalytic Hydrogen Combustion for Domestic and Safety Applications: A Critical Review of Catalyst Materials and Technologies. <i>Energies</i> , 2021, 14, 4897.	3.1	22
14	Materials challenges in hydrogen-fuelled gas turbines. <i>International Materials Reviews</i> , 2022, 67, 461-486.	19.3	26
15	Advances in catalytic hydrogen combustion research: Catalysts, mechanism, kinetics, and reactor designs. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 40073-40104.	7.1	24
16	Analysis of Hydrogen Fuel for Existing Domestic Boilers and New Heat Recovery Boilers with Water Spray. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2020, 31, 210-222.	0.6	2
17	Selective Production of Hydrogen and Solid Carbon via Methane Pyrolysis Using a Swirl-Induced Point-Plane Non-thermal Plasma Reactor. <i>Energy & Fuels</i> , 2022, 36, 826-836.	5.1	12
18	Perspective on the hydrogen economy as a pathway to reach net-zero CO ₂ emissions in Europe. <i>Energy and Environmental Science</i> , 2022, 15, 1034-1077.	30.8	132

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19	Preparation of Pt/Ceâ€“Zrâ€“Y mixed oxide/anodized aluminium oxide catalysts for hydrogen passive autocatalytic recombination. International Journal of Hydrogen Energy, 2022, 47, 12726-12738.	7.1	10
20	A Study on the Thermal and Pollution Performances of the Heating Boilers with NG-H2 Mixture Ratio. Transactions of the Korean Hydrogen and New Energy Society, 2021, 32, 573-584.	0.6	2
21	How Does a Microfluidic Platform Tune the Morphological Properties of Polybenzimidazole Nanoparticles?. Journal of Physical Chemistry B, 2022, 126, 308-326.	2.6	5
22	The Use of Hydrogen as a Potential Reductant in the Chromite Smelting Industry. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT ₇ /Overlo	2.0	7
23	Preparation of Highly Active and Thermally Conductive Platinum Nanoparticle/Ceâ€“Zrâ€“Y Mixed Oxide/AO Washcoat Catalyst for Catalytic Hydrogen Combustion Technologies. ACS Applied Nano Materials, 2022, 5, 8161-8174.	5.0	7
24	The Effect of Pre-Oxidation on the Reducibility of Chromite Using Hydrogen: A Preliminary Study. Minerals (Basel, Switzerland), 2022, 12, 911.	2.0	4
25	The Role of Clean Hydrogen Value Chain in a Successful Energy Transition of Japan. Energies, 2022, 15, 6064.	3.1	11
27	Co-firing hydrogen and dimethyl ether in a gas turbine model combustor: Influence of hydrogen content and comparison with methane. International Journal of Hydrogen Energy, 2022, 47, 38432-38444.	7.1	11
28	Numerical study of thermal diffusion in a passive autocatalytic recombiner: Possible effects on catalyst temperature and hydrogen distribution. International Journal of Hydrogen Energy, 2023, 48, 12129-12138.	7.1	4
29	Influence of H2 blending on NOx production in natural gas combustion: Mechanism comparison and reaction routes. International Journal of Hydrogen Energy, 2023, 48, 784-797.	7.1	11
30	Advancements in hydrogen energy research with the assistance of computational chemistry. International Journal of Hydrogen Energy, 2023, 48, 14978-14999.	7.1	4
31	Numerical investigation of premixed hydrogen/air combustion at lean to ultra-lean conditions and catalytic approach to enhance stability. International Journal of Hydrogen Energy, 2023, 48, 18100-18115.	7.1	4
32	Combustion, Chemistry, and Carbon Neutrality. Chemical Reviews, 2023, 123, 5139-5219.	47.7	37
33	Analysis of Hydrogen Use in Gas Turbine Plants. Energetika Proceedings of CIS Higher Education Institutions and Power Engineering Associations, 2023, 66, 158-168.	0.7	3
34	Revealing the elusive role of water vapor in the oxidation behavior of a Mn-Si containing NiCr alloy at 950 Å°C. Corrosion Science, 2023, 221, 111348.	6.6	0
35	Chemical beneficiation of chromite ore to improve the chromium-to-iron ratio for ferrochrome production. Minerals Engineering, 2023, 201, 108196.	4.3	2
36	Impact of Preheating On Flame Stabilization and NOx Emissions From a Dual Swirl Hydrogen Injector. Journal of Engineering for Gas Turbines and Power, 2023, , 1-12.	1.1	0
37	Gas Turbine Combustion Technologies for Hydrogen Blends. Energies, 2023, 16, 6829.	3.1	9

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38	Development of Pt-Co/Al ₂ O ₃ bimetallic catalyst and its evaluation in catalytic hydrogen combustion reaction. International Journal of Hydrogen Energy, 2024, 51, 1079-1096.	7.1	6
39	Investigation of Fuel and Load Flexibility of an Atmospheric Single Nozzle Jet-Stabilized FLOX® Combustor with Hydrogen/methane-Air Mixtures. Journal of Engineering for Gas Turbines and Power, 0, , 1-11.	1.1	0
40	Optimized solar photovoltaic-powered green hydrogen: Current status, recent advancements, and barriers. Solar Energy, 2023, 265, 112072.	6.1	0
41	Numerical and experimental analysis of cylindrical-type PAR catalyst behaviour. Nuclear Engineering and Design, 2024, 417, 112822.	1.7	0
42	Decomposition promotion of nitrous oxide for its use as an energy carrier. Fuel, 2024, 364, 131055.	6.4	0
43	Cordierite supported Pt+Pd bimetallic catalysts for mitigation of H ₂ under LOCA condition. International Journal of Hydrogen Energy, 2024, 58, 1541-1551.	7.1	0
44	Mechanistic and kinetics insights into Cu size effects on catalytic hydrogen combustion. Chemical Engineering Journal, 2024, 485, 149875.	12.7	0
45	Review of Catalysts, Substrates, and Fabrication Methods in Catalytic Hydrogen Combustion with Further Challenges and Applications. Energy & Fuels, 2024, 38, 4881-4903.	5.1	0