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## Combustion and Emission Characteristics of Ammonia under Conditions Relevant to Modern Gas Turbines

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#	Paper	IF	Citations
40	Rich-Quench-Lean model comparison for the clean use of humidified ammonia/hydrogen combustion systems. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 4472-4484	6.7	17
39	Kinetics modeling of NOx emissions characteristics of a NH3/H2 fueled gas turbine combustor. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 4526-4537	6.7	11
38	Mitigating NO emissions from an ammonia-fueled micro-power system with a perforated plate implemented. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123848	12.8	38
37	Structure and Laminar Flame Speed of an Ammonia/Methane/Air Premixed Flame under Varying Pressure and Equivalence Ratio. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 7179-7192	4.1	14
36	Ultraviolet Absorption Cross-Sections of Ammonia at Elevated Temperatures for Nonintrusive Quantitative Detection in Combustion Environments. <i>Applied Spectroscopy</i> , <b>2021</b> , 75, 1168-1177	3.1	1
35	Experimental and Kinetic Investigation of Stoichiometric to Rich NH3/H2/Air Flames in a Swirl and Bluff-Body Stabilized Burner. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 7201-7216	4.1	5
34	Ammonia as an energy vector: Current and future prospects for low-carbon fuel applications in internal combustion engines. <i>Journal of Cleaner Production</i> , <b>2021</b> , 296, 126562	10.3	36
33	Numerical simulation of ammonia/methane/air combustion using reduced chemical kinetics models. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 23548-23563	6.7	13
32	Planar laser-induced photofragmentation fluorescence for quantitative ammonia imaging in combustion environments. <i>Combustion and Flame</i> , <b>2021</b> , 235, 111687	5.3	
31	Advancements of combustion technologies in the ammonia-fuelled engines. <i>Energy Conversion and Management</i> , <b>2021</b> , 244, 114460	10.6	26
30	Liquid ammonia spray combustion in two-stage micro gas turbine combustors at 0.25 MPa; Relevance of combustion enhancement to flame stability and NOx control. <i>Applications in Energy and Combustion Science</i> , <b>2021</b> , 7, 100038	0.8	3
29	A review on ammonia, ammonia-hydrogen and ammonia-methane fuels. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 147, 111254	16.2	61
28	Enhanced life cycle modelling of a micro gas turbine fuelled with various fuels for sustainable electricity production. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 149, 111323	16.2	8
27	On the Influence of Kinetic Uncertainties on the Accuracy of Numerical Modeling of an Industrial Flameless Furnace Fired With NH3/H2 Blends: A Numerical and Experimental Study. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	5
26	A Review on Combustion Characteristics of Ammonia as a Carbon-Free Fuel. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	4
25	Analysing the Performance of Ammonia Powertrains in the Marine Environment. <i>Energies</i> , <b>2021</b> , 14, 7447.	3.1	3
24	Investigation on combustion characteristics and thermal performance of a three rearward-step structure micro combustor fueled by premixed hydrogen/air. <i>Renewable Energy</i> , <b>2022</b> ,	8.1	5

23	Ammonia-hydrogen-air gas turbine cycle and control analyses. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 8603-8620	6.7	1
22	NOx emission reduction in ammonia-powered micro-combustors by partially inserting porous medium under fuel-rich condition. <i>Chemical Engineering Journal</i> , <b>2022</b> , 434, 134680	14.7	3
21	Review on the recent advances on ammonia combustion from the fundamentals to the applications. <i>Fuel Communications</i> , <b>2022</b> , 10, 100053	1	5
20	Comparative Analysis of Ammonia Combustion for Domestic Applications. <i>SSRN Electronic Journal</i> ,	1	1
19	Structure and scalar correlation of ammonia/air turbulent premixed flames in the distributed reaction zone regime. <i>Combustion and Flame</i> , <b>2022</b> , 241, 112090	5.3	0
18	Fundamental Study on Ammonia Low-NOx Combustion Using Two-Stage Combustion by Parallel Air Jets. <i>Processes</i> , <b>2022</b> , 10, 23	2.9	0
17	On the effects of NH3 addition to a reacting mixture of H2/CH4 under MILD combustion regime: Numerical modeling with a modified EDC combustion model. <i>Fuel</i> , <b>2022</b> , 326, 125096	7.1	0
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13	A review on ammonia blends combustion for industrial applications. <b>2023</b> , 332, 126150		0
12	Visible chemiluminescence of ammonia premixed flames and its application for flame diagnostics. <b>2022</b> ,		0
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10	Turbulent flame speed measurement of NH3/H2/air and CH4/air flames and a numerical case study of NO emission in a constant volume combustion chamber (C.V.C.C.). <b>2023</b> , 332, 126152		0
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7	Analysis of low emission characteristics of NH3/H2/air mixtures under low temperature combustion conditions. <b>2022</b> , 126879		0
6	Overview of fundamental kinetic mechanisms and emission mitigation in ammonia combustion. <b>2023</b> , 458, 141391		0

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- 4 Removal and mechanism analysis of NO emissions in carbon-free ammonia combustion systems with a secondary fuel injection. **2023**, 344, 128088 ○
- 3 Exploring the Effect of Different Reactivity Promoters on the Oxidation of Ammonia in a Jet-Stirred Reactor. **2023**, 127, 1923-1940 ○
- 2 Reduced Mechanism for Combustion of Ammonia and Natural Gas Mixtures. **2023**, 5, 484-496 ○
- 1 On the effects of adding syngas to an ammonia-MILD combustion regime: A computational study of the reaction zone structure. **2023**, ○