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Oxidation and pyrolysis of ammonia mixtures in model reactors

DOI: 10.1016/j.fuel.2019.116768
Fuel, 2020, 264, 116768.

Source: <https://exaly.com/paper-pdf/75308897/citation-report.pdf>

Version: 2024-04-17

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#	Paper	IF	Citations
35	Mutual inhibition effect of hydrogen and ammonia in oxidation processes and the role of ammonia as a strong collider in third-molecular reactions. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 32113-32127	6.7	8
34	On H ₂ O ₂ oxidation in several bath gases. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8151-8167	6.7	10
33	Detailed Reaction Mechanism To Predict Ammonia Destruction in the Thermal Section of Sulfur Recovery Units. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4912-4923	3.9	1
32	Hydrogen production from thermal decomposition of ammonia-contaminated acid gas using a detailed reaction mechanism. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 1828-1841	6.7	1
31	Experimental Study of the Pyrolysis of NH ₃ under Flow Reactor Conditions. <i>Energy & Fuels</i> , 2021 , 35, 7193-7200	4.1	10
30	Review on Ammonia as a Potential Fuel: From Synthesis to Economics. <i>Energy & Fuels</i> , 2021 , 35, 6964-7029	4.1	95
29	Determination of pressure drop in a fixed bed catalytic reactor during ammonia oxidation on nanostructured platinum catalyst. <i>Functional Materials</i> , 2021 , 27,	0.6	
28	Ammonia as an energy vector: Current and future prospects for low-carbon fuel applications in internal combustion engines. <i>Journal of Cleaner Production</i> , 2021 , 296, 126562	10.3	36
27	Ammonia oxidation regimes and transitional behaviors in a Jet Stirred Flow Reactor. <i>Combustion and Flame</i> , 2021 , 228, 388-400	5.3	3
26	Hydrogen supply chain and challenges in large-scale LH ₂ storage and transportation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 24149-24168	6.7	23
25	On Explosion Limits of Ammonia-Oxygen Mixtures with Hydrogen Addition: Sensitivity and Nonmonotonicity. <i>Energy & Fuels</i> , 2021 , 35, 14035-14041	4.1	0
24	Interaction of NH ₃ and NO under combustion conditions. Experimental flow reactor study and kinetic modeling simulation. <i>Combustion and Flame</i> , 2021 , 111691	5.3	2
23	An experimental and modeling study of ammonia pyrolysis. <i>Combustion and Flame</i> , 2021 , 235, 111694	5.3	5
22	Study of the oxidation of ammonia in a flow reactor. Experiments and kinetic modeling simulation. <i>Fuel</i> , 2021 , 300, 120979	7.1	6
21	Autothermal recirculating reactor (ARR) with Cu-BN composite as a stable reactor material for sustainable hydrogen release from ammonia. <i>Journal of Power Sources</i> , 2021 , 506, 230081	8.9	2
20	Ammonia oxidation features in a Jet Stirred Flow Reactor. The role of NH ₂ chemistry.. <i>Fuel</i> , 2020 , 276, 118054	7.1	15
19	Reactive Structures of Ammonia MILD Combustion in Diffusion Ignition Processes. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	1

18	Ammonia and ammonia/hydrogen blends oxidation in a jet-stirred reactor: Experimental and numerical study. <i>Fuel</i> , 2022 , 310, 122202	7.1	2
17	New insight into NH ₃ -H ₂ mutual inhibiting effects and dynamic regimes at low-intermediate temperatures. <i>Combustion and Flame</i> , 2022 , 111957	5.3	2
16	A detailed chemical insights into the kinetics of diethyl ether enhancing ammonia combustion and the importance of NO _x recycling mechanism. <i>Fuel Communications</i> , 2022 , 10, 100051	1	3
15	Challenges in Kinetic modeling of ammonia pyrolysis. <i>Fuel Communications</i> , 2022 , 10, 100049	1	1
14	Process Modeling, Optimization and Cost Analysis of a Sulfur Recovery Unit by Applying Pinch Analysis on the Claus Process in a Gas Processing Plant. <i>Mathematics</i> , 2022 , 10, 88	2.3	0
13	Conversion of NH ₃ and NH ₃ -NO Mixtures in a CO ₂ Atmosphere. A Parametric Study. <i>SSRN Electronic Journal</i> ,	1	
12	Reaction zone characteristics, thermal performance and NO _x /N ₂ O emissions analyses of ammonia MILD combustion. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 21013-21031	6.7	0
11	On the effects of NH ₃ addition to a reacting mixture of H ₂ /CH ₄ under MILD combustion regime: Numerical modeling with a modified EDC combustion model. <i>Fuel</i> , 2022 , 326, 125096	7.1	0
10	Conversion of NH ₃ and NH ₃ -NO mixtures in a CO ₂ atmosphere. A parametric study. <i>Fuel</i> , 2022 , 327, 125133	7.33	1
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8	NH ₃ NO interaction at low-temperatures: An experimental and modeling study. 2022 ,		3
7	Characteristics of NH ₃ /H ₂ blend as carbon-free fuels: A review. 2022 ,		0
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4	Testing of NH ₃ /H ₂ and NH ₃ /syngas combustion mechanisms using a large amount of experimental data. 2023 , 14, 100127		0
3	Probing High-Temperature Amine Chemistry: Is the Reaction NH ₃ + NH ₂ ? N ₂ H ₃ + H ₂ Important?. 2023 , 127, 2601-2607		0
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