Ammonia for power

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Citation Report

#	Article	IF	CITATIONS
1	Potential for hydrogen and Power-to-Liquid in a low-carbon EU energy system using cost optimization. Applied Energy, 2018, 232, 617-639.	10.1	154
2	Potential Applications of Algae-Based Bio-fertilizer. Soil Biology, 2019, , 41-65.	0.8	20
3	Low-NOx conversion of pure ammonia in a cyclonic burner under locally diluted and preheated conditions. Applied Energy, 2019, 254, 113676.	10.1	96
4	Thermodynamic evaluation of open cycle gas turbines with carbon-free fuels H ₂ and NH ₃ at high temperatures. Journal of Thermal Science and Technology, 2019, 14, JTST0015-JTST0015.	1.1	4
5	Frontiers in combustion techniques and burner designs for emissions control and CO ₂ capture: A review. International Journal of Energy Research, 2019, 43, 7790.	4.5	22
6	Inner Selective Non-Catalytic Reduction Strategy for Nitrogen Oxides Abatement: Investigation of Ammonia Aqueous Solution Direct Injection with an SI Engine Model. Energies, 2019, 12, 2742.	3.1	1
7	Quantification of Ammonia Emissions With High Spatial Resolution Thermal Infrared Observations From the Hyperspectral Thermal Emission Spectrometer (HyTES) Airborne Instrument. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4798-4812.	4.9	2
8	Hydrogen Storage for Mobility: A Review. Materials, 2019, 12, 1973.	2.9	461
9	Sustainable energy technologies and environmental impacts of energy systems. Applied Energy, 2019, 256, 113919.	10.1	19
10	Optimal design of dual-pressure turbine in OTEC system based on constructal theory. Energy Conversion and Management, 2019, 201, 112179.	9.2	35
11	Plasma-Enhanced Catalytic Synthesis of Ammonia over a Ni/Al ₂ O ₃ Catalyst at Near-Room Temperature: Insights into the Importance of the Catalyst Surface on the Reaction Mechanism. ACS Catalysis, 2019, 9, 10780-10793.	11.2	191
12	Chemical mechanism development and reduction for combustion of NH3/H2/CH4 mixtures. Fuel, 2019, 257, 116059.	6.4	151
13	Computational Mechanistic Study of Electro-Oxidation of Ammonia to N ₂ by Homogenous Ruthenium and Iron Complexes. Journal of Physical Chemistry A, 2019, 123, 7973-7982.	2.5	20
14	Islanded ammonia power systems: Technology review & conceptual process design. Renewable and Sustainable Energy Reviews, 2019, 114, 109339.	16.4	141
15	Thermodynamic assessment of an integrated renewable energy multigeneration system including ammonia as hydrogen carrier and phase change material energy storage. Energy Conversion and Management, 2019, 198, 111809.	9.2	35
16	Emission characteristics of turbulent non-premixed ammonia/air and methane/air swirl flames through a rich-lean combustor under various wall thermal boundary conditions at high pressure. Combustion and Flame, 2019, 210, 247-261.	5.2	110
17	Electrocatalytic Ammonia Oxidation Mediated by a Polypyridyl Iron Catalyst. ACS Catalysis, 2019, 9, 10101-10108.	11.2	72
18	Investigation of perovskite oxide <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si1.svg"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrFe</mml:mtext></mml:mrow><mml:m International Journal of Hydrogen Energy, 2019, 44, 26554-26564.</mml:m </mml:msub></mml:mrow></mml:math>	ro w গ <mm< td=""><td>l:m12>0.8</td></mm<>	l:m12>0.8

#	Article	IF	CITATIONS
19	Surface Acoustic Wave Sensors for Ammonia Detection at Room Temperature Based on SnO ₂ /Co ₃ O ₄ Bilayers. Journal of Sensors, 2019, 2019, 1-6.	1.1	24
20	Hydrogen storage materials for hydrogen and energy carriers. International Journal of Hydrogen Energy, 2019, 44, 18179-18192.	7.1	261
21	Advanced Nonâ€metallic Catalysts for Electrochemical Nitrogen Reduction under Ambient Conditions. Chemistry - A European Journal, 2019, 25, 12464-12485.	3.3	57
22	Fuel rich ammonia-hydrogen injection for humidified gas turbines. Applied Energy, 2019, 251, 113334.	10.1	48
23	Liquid hydrogen, methylcyclohexane, and ammonia as potential hydrogen storage: Comparison review. International Journal of Hydrogen Energy, 2019, 44, 15026-15044.	7.1	301
24	Postsynthetic Modification of a Network Polymer of Intrinsic Microporosity and Its Hydrogen Adsorption Properties. Journal of Physical Chemistry C, 2019, 123, 6998-7009.	3.1	4
25	Ammonia synthesis from nitrogen and water at intermediate temperatures and elevated pressures by using an electrochemical hydrogen-membrane reactor with supported Ru catalysts and phosphate electrolytes. Sustainable Energy and Fuels, 2019, 3, 1406-1417.	4.9	21
26	Effect of hydrogen addition on combustion and heat release characteristics of ammonia flame. Energy, 2019, 175, 604-617.	8.8	58
27	Hydrides, Amides and Imides Mediated Ammonia Synthesis and Decomposition. Chinese Journal of Chemistry, 2019, 37, 442-451.	4.9	32
28	Measurement and modelling of the laminar burning velocity of methane-ammonia-air flames at high pressures using a reduced reaction mechanism. Combustion and Flame, 2019, 204, 162-175.	5.2	265
29	Coupling ammonia catalytic decomposition and electrochemical oxidation for solid oxide fuel cells: A model based on elementary reaction kinetics. Journal of Power Sources, 2019, 423, 125-136.	7.8	37
30	New Electrolytic Devices Produce Ammonia with Exceptional Selectivity. Joule, 2019, 3, 634-636.	24.0	8
31	Development and Assessment of a Novel Integrated System Using an Ammonia Internal Combustion Engine and Fuel Cells for Cogeneration Purposes. Energy & amp; Fuels, 2019, 33, 2413-2425.	5.1	11
32	Burning velocity and flame structure of CH4/NH3/air turbulent premixed flames at high pressure. International Journal of Hydrogen Energy, 2019, 44, 6991-6999.	7.1	63
33	Chemical kinetic modelling of ammonia/hydrogen/air ignition, premixed flame propagation and NO emission. Fuel, 2019, 246, 24-33.	6.4	137
34	Numerical analysis of biogas combustion in a lean premixed swirl burner. , 2019, , .		1
35	Instantaneous one-dimensional ammonia measurements with femtosecond two-photon laser-induced fluorescence (fs-TPLIF). International Journal of Hydrogen Energy, 2019, 44, 25740-25745.	7.1	4
36	The use of ammonia as a fuel for transport: Integration with solid oxide fuel cells. AIP Conference Proceedings, 2019, , .	0.4	17

#	Article	IF	CITATIONS
37	Effects of Ammonia Impurities on the Hydrogen Flow in High and Low Temperature Polymer Electrolyte Fuel Cells. Fuel Cells, 2019, 19, 651-662.	2.4	11
38	Single-step synthesized dual-layer hollow fiber membrane reactor for on-site hydrogen production through ammonia decomposition. International Journal of Hydrogen Energy, 2020, 45, 7423-7432.	7.1	28
39	C-shaped extinction curves and lean fuel limits of methane oxy-fuel diffusion flames at different oxygen concentrations. Fuel, 2020, 259, 116296.	6.4	7
40	Baseload electricity and hydrogen supply based on hybrid PV-wind power plants. Journal of Cleaner Production, 2020, 243, 118466.	9.3	110
41	Control of NOx and other emissions in micro gas turbine combustors fuelled with mixtures of methane and ammonia. Combustion and Flame, 2020, 211, 406-416.	5.2	197
42	Investigating the operation parameters for ammonia synthesis in dielectric barrier discharge reactors. Journal Physics D: Applied Physics, 2020, 53, 014008.	2.8	34
43	Addressing the challenge of carbon-free energy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12543-12549.	7.1	44
44	Ammonia Measurements with Femtosecond Two-Photon Laser-Induced Fluorescence in Premixed NH ₃ /Air Flames. Energy & Fuels, 2020, 34, 1177-1183.	5.1	7
45	Flexible production of green hydrogen and ammonia from variable solar and wind energy: Case study of Chile and Argentina. International Journal of Hydrogen Energy, 2020, 45, 1541-1558.	7.1	239
46	Oxidation and pyrolysis of ammonia mixtures in model reactors. Fuel, 2020, 264, 116768.	6.4	48
47	Techno-economic analysis and life cycle assessment for electrochemical ammonia production using proton conducting membrane. International Journal of Hydrogen Energy, 2020, 45, 721-737.	7.1	62
48	Non-thermal atmospheric plasma synthesis of ammonia in a DBD reactor packed with various catalysts. Journal Physics D: Applied Physics, 2020, 53, 064002.	2.8	23
49	An updated short chemicalâ€kinetic nitrogen mechanism for carbonâ€free combustion applications. International Journal of Energy Research, 2020, 44, 795-810.	4.5	51
50	Experimental investigation on laminar burning velocities of ammonia/hydrogen/air mixtures at elevated temperatures. Fuel, 2020, 263, 116653.	6.4	202
51	Feasibility Study of Plasma-Catalytic Ammonia Synthesis for Energy Storage Applications. Catalysts, 2020, 10, 999.	3.5	28
52	Techno-economic analysis of a solar-powered biomass electrolysis pathway for coproduction of hydrogen and value-added chemicals. Sustainable Energy and Fuels, 2020, 4, 5568-5577.	4.9	20
53	Study of the Combined Effect of Ammonia Addition and Air Coflow Velocity on a Non-premixed Methane Jet Flame Stabilization. Combustion Science and Technology, 2022, 194, 1747-1767.	2.3	5
54	Probing hydrogen–nitrogen chemistry: A theoretical study of important reactions in NxHy, HCN and HNCO oxidation. International Journal of Hydrogen Energy, 2020, 45, 23624-23637.	7.1	35

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#	Article	IF	CITATIONS
55	Vacuum membrane distillation multi-component numerical model for ammonia recovery from liquid streams. Journal of Membrane Science, 2020, 614, 118399.	8.2	16
56	Stability limits and NO emissions of technically-premixed ammonia-hydrogen-nitrogen-air swirl flames. International Journal of Hydrogen Energy, 2020, 45, 22008-22018.	7.1	94
57	NO emission and thermal performances studies on premixed ammonia-oxygen combustion in a CO2-free micro-planar combustor. Fuel, 2020, 280, 118554.	6.4	82
58	Soot formation in laminar flames of ethylene/ammonia. Combustion and Flame, 2020, 220, 210-218.	5.2	63
59	Compressive behavior and electronic properties of ammonia ice: a first-principles study. RSC Advances, 2020, 10, 26579-26587.	3.6	4
60	Proton-based solid acids for ammonia absorption in ammonia water. International Journal of Hydrogen Energy, 2020, 45, 22189-22194.	7.1	13
61	Optimization of an improved power cycle for geothermal applications in Iran. Energy, 2020, 209, 118381.	8.8	10
62	Effects of fuel composition and wall thermal conductivity on thermal and NOx emission performances of an ammonia/hydrogen-oxygen micro-power system. Fuel Processing Technology, 2020, 209, 106527.	7.2	81
63	Experimental investigation of ammonia combustion in a bench scale 1.2ÂMW-thermal pulverised coal firing furnace. Applied Energy, 2020, 277, 115580.	10.1	108
64	Low-temperature auto-ignition characteristics of NH3/diesel binary fuel: Ignition delay time measurement and kinetic analysis. Fuel, 2020, 281, 118761.	6.4	60
65	Review of Fuel/Oxidizer-Flexible Combustion in Gas Turbines. Energy & Fuels, 2020, 34, 10459-10485.	5.1	17
66	Exploration on laminar flame propagation of ammonia and syngas mixtures up to 10Âatm. Combustion and Flame, 2020, 220, 368-377.	5.2	79
67	A comparative study between ORC and Kalina based waste heat recovery cycles applied to a green compressed air energy storage (CAES) system. Energy Conversion and Management, 2020, 222, 113203.	9.2	139
68	Feasibility of Fe-based nitrogen carrier for chemical looping ammonia synthesis: thermodynamics. Journal of Thermal Analysis and Calorimetry, 2021, 146, 673-680.	3.6	10
69	Arrayed Cobalt Phosphide Electrocatalyst Achieves Low Energy Consumption and Persistent H2 Liberation from Anodic Chemical Conversion. Nano-Micro Letters, 2020, 12, 154.	27.0	29
70	Mutual inhibition effect of hydrogen and ammonia in oxidation processes and the role of ammonia as "strong―collider in third-molecular reactions. International Journal of Hydrogen Energy, 2020, 45, 32113-32127.	7.1	26
71	Carbon-free sustainable energy technology: Direct ammonia fuel cells. Journal of Power Sources, 2020, 476, 228454.	7.8	61
72	Ammonia as Fuel for Low-Carbon Spark-Ignition Engines of Tomorrow's Passenger Cars. Frontiers in Mechanical Engineering, 2020, 6, .	1.8	54

#	Article	IF	CITATIONS
73	Electrocatalytic dinitrogen reduction reaction on silicon carbide: a density functional theory study. Physical Chemistry Chemical Physics, 2020, 22, 21761-21767.	2.8	17
74	Plasma-driven catalysis: green ammonia synthesis with intermittent electricity. Green Chemistry, 2020, 22, 6258-6287.	9.0	163
75	Operation of a Solid Oxide Fuel Cell Based Power System with Ammonia as a Fuel: Experimental Test and System Design. Energies, 2020, 13, 6173.	3.1	27
76	An experimental investigation on hydroxy (HHO) enriched ammonia as alternative fuel in gas turbine. International Journal of Hydrogen Energy, 2020, 46, 29638-29638.	7.1	15
77	Numerical Study on the Premixed Oxygen-Enriched Ammonia Combustion. Energy & Fuels, 2020, 34, 16903-16917.	5.1	29
78	System Design and Modeling of a High Temperature PEM Fuel Cell Operated with Ammonia as a Fuel. Energies, 2020, 13, 4689.	3.1	5
79	Maritime fuel cell applications: A tool for conceptual decision making. International Shipbuilding Progress, 2020, 67, 57-77.	0.4	1
80	Flexibility From Distributed Multienergy Systems. Proceedings of the IEEE, 2020, 108, 1496-1517.	21.3	72
81	Bluff-body effect on thermal and NO emission characteristics in a micro-planar combustor fueled with premixed ammonia-oxygen. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107979.	3.6	35
82	A Roadmap to the Ammonia Economy. Joule, 2020, 4, 1186-1205.	24.0	782
83	Reactive Metals as Energy Storage and Carrier Media: Use of Aluminum for Power Generation in Fuel Cellâ€Based Power Plants. Energy Technology, 2020, 8, 2000233.	3.8	11
84	Experimental and Numerical Study of NH ₃ /CH ₄ Counterflow Premixed and Non-premixed Flames for Various NH ₃ Mixing Ratios. Combustion Science and Technology, 2021, 193, 2872-2889.	2.3	14
85	A review on alternative fuels in future energy system. Renewable and Sustainable Energy Reviews, 2020, 128, 109927.	16.4	207
86	Environmental evaluation of european ammonia production considering various hydrogen supply chains. Renewable and Sustainable Energy Reviews, 2020, 130, 109964.	16.4	77
87	3D Nanostructures for the Next Generation of Highâ€Performance Nanodevices for Electrochemical Energy Conversion and Storage. Advanced Energy Materials, 2020, 10, 2001460.	19.5	106
88	Co/multi-walled carbon nanotubes as highly efficient catalytic nanoreactor for hydrogen production from formic acid. International Journal of Hydrogen Energy, 2020, 45, 19420-19430.	7.1	21
89	Progress and Prospective of Nitrogen-Based Alternative Fuels. Chemical Reviews, 2020, 120, 5352-5436.	47.7	165
90	Optimal Design of Welded Plate Heat Exchanger for Ammonia Synthesis Column: An Experimental Study with Mathematical Optimisation. Energies, 2020, 13, 2847.	3.1	10

#	Article	IF	CITATIONS
91	Combustion dynamics of lean fully-premixed hydrogen-air flames in a mesoscale multinozzle array. Combustion and Flame, 2020, 218, 234-246.	5.2	30
92	Thermodynamic assessment of chemical looping combustion and solar thermal methane cracking-based integrated system for green ammonia production. Thermal Science and Engineering Progress, 2020, 19, 100588.	2.7	17
93	Development of porous nickel catalysts by low-temperature Ni–Al chemical alloying and post selective Al leaching, and their application for ammonia decomposition. International Journal of Hydrogen Energy, 2020, 45, 19181-19191.	7.1	16
94	Polar Hard-Core Exponential-6 Intermolecular Potential Function for Determining the Thermodynamic Properties of Polar Gases. Industrial & Engineering Chemistry Research, 2020, 59, 14106-14114.	3.7	3
95	Experimental study on ammonia/hydrogen/air combustion in spark ignition engine conditions. Fuel, 2020, 269, 117448.	6.4	238
96	A Preliminary Study on an Alternative Ship Propulsion System Fueled by Ammonia: Environmental and Economic Assessments. Journal of Marine Science and Engineering, 2020, 8, 183.	2.6	91
97	What Does It Take to Go Net-Zero-CO2? A Life Cycle Assessment on Long-Term Storage of Intermittent Renewables With Chemical Energy Carriers. Frontiers in Energy Research, 2020, 8, .	2.3	13
98	Aluminum and its role as a recyclable, sustainable carrier of renewable energy. Applied Energy, 2020, 275, 115112.	10.1	69
99	Performance Optimization of a Condenser in Ocean Thermal Energy Conversion (OTEC) System Based on Constructal Theory and a Multi-Objective Genetic Algorithm. Entropy, 2020, 22, 641.	2.2	40
100	Internal combustion engines water injection fed by Exhaust Water Recirculation (EWR): a feasibility analysis. Automotive and Engine Technology, 2020, 5, 21-28.	1.1	0
101	Carbon black reborn: Structure and chemistry for renewable energy harnessing. Carbon, 2020, 162, 604-649.	10.3	156
102	Enhanced low temperature catalytic activity of Ni/Al–Ce0.8Zr0.2O2 for hydrogen production from ammonia decomposition. International Journal of Hydrogen Energy, 2020, 45, 9342-9352.	7.1	61
103	Electrolyte Engineering for Efficient Electrochemical Nitrate Reduction to Ammonia on a Titanium Electrode. ACS Sustainable Chemistry and Engineering, 2020, 8, 2672-2681.	6.7	217
104	Thermodynamic evaluation of an ammonia-fueled combined-cycle gas turbine process operated under fuel-rich conditions. Energy, 2020, 194, 116894.	8.8	29
105	Correlation analysis of chemiluminescent and pollutant emissions of a liquid-fueled turbulent swirl burner. Journal of the Energy Institute, 2020, 93, 1390-1398.	5.3	6
106	A review of ammonia as a compression ignition engine fuel. International Journal of Hydrogen Energy, 2020, 45, 7098-7118.	7.1	388
107	How can power-to-ammonia be robust? Optimization of an ammonia synthesis plant powered by a wind turbine considering operational uncertainties. Fuel, 2020, 266, 117049.	6.4	51
108	Stability limits and exhaust NO performances of ammonia-methane-air swirl flames. Experimental Thermal and Fluid Science, 2020, 114, 110058.	2.7	71

#	Article	IF	CITATIONS
109	Numerical Predictions of a Swirl Combustor Using Complex Chemistry Fueled with Ammonia/Hydrogen Blends. Energies, 2020, 13, 288.	3.1	28
110	Catalytic N ₂ -to-NH ₃ (or -N ₂ H ₄) Conversion by Well-Defined Molecular Coordination Complexes. Chemical Reviews, 2020, 120, 5582-5636.	47.7	234
111	The Potential Role of Ammonia as Marine Fuel—Based on Energy Systems Modeling and Multi-Criteria Decision Analysis. Sustainability, 2020, 12, 3265.	3.2	118
112	Low-loading IrO2 supported on Pt for catalysis of PEM water electrolysis and regenerative fuel cells. Applied Catalysis B: Environmental, 2020, 272, 118955.	20.2	43
113	Constructal thermodynamic optimization for ocean thermal energy conversion system with dual-pressure organic Rankine cycle. Energy Conversion and Management, 2020, 210, 112727.	9.2	82
114	Facile Heterogeneously Catalyzed Nitrogen Fixation by MXenes. ACS Catalysis, 2020, 10, 5049-5056.	11.2	67
115	Si-Doped Fe Catalyst for Ammonia Synthesis at Dramatically Decreased Pressures and Temperatures. Journal of the American Chemical Society, 2020, 142, 8223-8232.	13.7	28
116	Techno-economic analysis and comprehensive optimization of an <i>on-site</i> hydrogen refuelling station system using ammonia: hybrid hydrogen purification with both high H ₂ purity and high recovery. Sustainable Energy and Fuels, 2020, 4, 3006-3017.	4.9	46
117	Borophene and Boron Fullerene Materials in Hydrogen Storage: Opportunities and Challenges. ChemSusChem, 2020, 13, 3754-3765.	6.8	62
118	Experimental and modeling study on ignition delay of ammonia/methane fuels. International Journal of Energy Research, 2020, 44, 6939-6949.	4.5	43
119	The effect of ammonia addition on the low-temperature autoignition of n-heptane: An experimental and modeling study. Combustion and Flame, 2020, 217, 4-11.	5.2	84
120	Combustion and Emission Characteristics of Ammonia under Conditions Relevant to Modern Gas Turbines. Combustion Science and Technology, 2021, 193, 2514-2533.	2.3	61
121	Techno-economics of novel refueling stations based on ammonia-to-hydrogen route and SOFC technology. International Journal of Hydrogen Energy, 2021, 46, 10059-10071.	7.1	38
122	Energy, exergy, and cost comparison of Goswami cycle and cascade organic Rankine cycle/absorption chiller system for geothermal application. Energy Conversion and Management, 2021, 227, 113598.	9.2	32
123	Aqueous solution of ammonia as marine fuel. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2021, 235, 142-151.	0.5	6
124	Thermokinetic study of residual solid digestate from anaerobic digestion. Chemical Engineering Journal, 2021, 406, 127039.	12.7	42
125	Emission implications of electric vehicles in Japan considering energy structure transition and penetration uncertainty. Journal of Cleaner Production, 2021, 280, 124402.	9.3	21
126	Cost-effective clean ammonia production using membrane-assisted autothermal reforming. Chemical Engineering Journal, 2021, 404, 126550.	12.7	24

ARTICLE IF CITATIONS Characteristics of NH3/H2/air flames in a combustor fired by a swirl and bluff-body stabilized burner. 127 3.9 49 Proceedings of the Combustion Institute, 2021, 38, 5129-5138. NO and OH* emission characteristics of very-lean to stoichiometric ammonia–hydrogen–air swirl flames. Proceedings of the Combustion Institute, 2021, 38, 5155-5162. Rich-Quench-Lean model comparison for the clean use of humidified ammonia/hydrogen combustion 129 7.1 58 systems. International Journal of Hydrogen Energy, 2021, 46, 4472-4484. Humidified ammonia/hydrogen RQL combustion in a trigeneration gas turbine cycle. Energy 9.2 Conversion and Management, 2021, 227, 113625. Comparative Effect of Ammonia Addition on the Laminar Burning Velocities of Methane, 131 5.1 39 <i>n</i>-Heptane, and Iso-octane. Energy & amp; Fuels, 2021, 35, 7156-7168. Numerical study of the premixed ammonia-hydrogen combustion under engine-relevant conditions. International Journal of Hydrogen Energy, 2021, 46, 2667-2683. 7.1 Kinetics modeling of NOx emissions characteristics of a NH3/H2 fueled gas turbine combustor. 133 7.1 42 International Journal of Hydrogen Energy, 2021, 46, 4526-4537. Ammonia to power: Forecasting the levelized cost of electricity from green ammonia in large-scale 134 10.1 power plants. Applied Energy, 2021, 282, 116009. 135 Safety Aspects., 2021, , 221-257. 4 One-pot synthesis of supported Ni@Al2O3 catalysts with uniform small-sized Ni for hydrogen 7.1 generation via ammonia decomposition. International Journal of Hydrogen Energy, 2021, 46, 4045-4054. Numerical simulation of flame acceleration and deflagration-to-detonation transition in 137 19 7.1 ammonia-hydrogen–oxygen mixtures. International Journal of Hydrogen Energy, 2021, 46, 1273-1287. NO emission performance assessment on a perforated plate-implemented premixed ammonia-oxygen 138 micro-combustion system. Chemical Engineering Journal, 2021, 417, 128033. Ammonia as an effective hydrogen carrier and a clean fuel for solid oxide fuel cells. Energy 139 9.2 214 Conversion and Management, 2021, 228, 113729. Top-Down Syntheses of Nickel-Based Structured Catalysts for Hydrogen Production from Ammonia. 140 8.0 ACS Applied Materials & amp; Interfaces, 2021, 13, 597-607. 141 Storage and Distribution of Ammonia., 2021, , 85-103. 7 Challenges for turbulent combustion. Proceedings of the Combustion Institute, 2021, 38, 121-155. 142 48 A technological roadmap to the ammonia energy economy: Current state and missing technologies. 143 12.7 117 Chemical Engineering Journal, 2021, 408, 127310. Influence of wall heat loss on the emission characteristics of premixed ammonia-air swirling flames 144 interacting with the combustor wall. Proceedings of the Combustion Institute, 2021, 38, 5139-5146.

#	Article	IF	CITATIONS
145	Influence of water addition on MILD ammonia combustion performances and emissions. Proceedings of the Combustion Institute, 2021, 38, 5147-5154.	3.9	69
146	Experimental and modeling study on the auto-ignition properties of ammonia/methane mixtures at elevated pressures. Proceedings of the Combustion Institute, 2021, 38, 261-268.	3.9	54
147	An investigation of ammonia primary flame combustor concepts for emissions reduction with OH*, NH2* and NH* chemiluminescence at elevated conditions. Proceedings of the Combustion Institute, 2021, 38, 6451-6459.	3.9	51
148	Combustion behavior of ammonia blended with diethyl ether. Proceedings of the Combustion Institute, 2021, 38, 499-506.	3.9	88
149	Experimental and numerical study of product gas characteristics of ammonia/air premixed laminar flames stabilized in a stagnation flow. Proceedings of the Combustion Institute, 2021, 38, 2409-2417.	3.9	37
150	Characterizing ammonia and nitric oxide interaction with outwardly propagating spherical flame method. Proceedings of the Combustion Institute, 2021, 38, 2477-2485.	3.9	27
151	A numerical investigation of NH3/O2/He ignition limits in a non-thermal plasma. Proceedings of the Combustion Institute, 2021, 38, 6661-6669.	3.9	47
152	The blow-off and transient characteristics of co-firing ammonia/methane fuels in a swirl combustor. Proceedings of the Combustion Institute, 2021, 38, 5181-5190.	3.9	60
153	Experimental investigation on ammonia combustion behavior in a spark-ignition engine by means of laminar and turbulent expanding flames. Proceedings of the Combustion Institute, 2021, 38, 5859-5868.	3.9	73
154	Introduction to energy storage. , 2021, , 1-25.		Ο
155	Flame stability and emissions characteristics of liquid ammonia spray co-fired with methane in a single stage swirl combustor. Fuel, 2021, 287, 119433.	6.4	78
156	An experimental investigation of the performance, emission and combustion stability of compression ignition engine powered by diesel and ammonia solution (NH ₄ OH). International Journal of Engine Research, 2021, 22, 2639-2653.	2.3	24
157	Highly efficient ammonia synthesis at low temperature over a Ru–Co catalyst with dual atomically dispersed active centers. Chemical Science, 2021, 12, 7125-7137.	7.4	35
158	Emission Characteristics for Swirl Methane–Air Premixed Flames with Ammonia Addition. Energies, 2021, 14, 662.	3.1	14
159	Use of Ammonia for Heat, Power and Propulsion. , 2021, , 105-154.		8
160	Boosting NH ₃ production from nitrate electroreduction <i>via</i> electronic structure engineering of Fe ₃ C nanoflakes. Green Chemistry, 2021, 23, 7594-7608.	9.0	50
161	Hydrogen economy transition plan: A case study on Ontario. AIMS Energy, 2021, 9, 775-811.	1.9	11
162	Green ammonia as a spatial energy vector: a review. Sustainable Energy and Fuels, 2021, 5, 2814-2839.	4.9	126

#	Article	IF	Citations
163	Defect induced nitrogen reduction reaction of carbon nanomaterials. Sustainable Energy and Fuels, 2021, 5, 3765-3790.	4.9	9
164	Electrochemical oxidation of molecular nitrogen to nitric acid – towards a molecular level understanding of the challenges. Chemical Science, 2021, 12, 6442-6448.	7.4	43
166	Ammonia: a clean and efficient energy carrier for distributed hybrid system. , 2021, , 141-177.		0
167	COx-free hydrogen production via ammonia decomposition over mesoporous Co/Al2O3 catalysts with highly dispersed Co species synthesized by a facile method. Dalton Transactions, 2021, 50, 1443-1452.	3.3	14
168	Co-Planning of Regional Wind Resources-based Ammonia Industry and the Electric Network: A Case Study of Inner Mongolia. IEEE Transactions on Power Systems, 2022, 37, 65-80.	6.5	20
169	Power-to-fuel potential market. , 2021, , 239-265.		0
170	Power to ammonia and urea. , 2021, , 153-167.		0
171	Economic Optimization of Qatar's Hydrocarbon-based Fuels for Sustainable Maritime Applications. Computer Aided Chemical Engineering, 2021, 50, 1553-1558.	0.5	1
172	Structure and Laminar Flame Speed of an Ammonia/Methane/Air Premixed Flame under Varying Pressure and Equivalence Ratio. Energy & Fuels, 2021, 35, 7179-7192.	5.1	60
173	A Computational Study of Ammonia Combustion in MILD Conditions. , 2021, , .		3
174	Ammonia Synthesis and Mechanochemistry. Joule, 2021, 5, 297-299.	24.0	15
175	MnOOH nanoparticles integrated nitrogen doped porous nanosheet-like carbon network as a non-noble catalyst for electro-oxidation of sodium borohydride. International Journal of Hydrogen Energy, 2021, 46, 9380-9393.	7.1	3
177	Review on Ammonia as a Potential Fuel: From Synthesis to Economics. Energy & Fuels, 2021, 35, 6964-7029.	5.1	403
178	Comparison of sampling and spectrophotometric determination of ammonia using nesslerization with standard ion chromatography in air monitoring of workplaces. International Journal of Environmental Analytical Chemistry, 2023, 103, 1724-1732.	3.3	3
179	On the Rate Constant for NH ₂ +HO ₂ and Third-Body Collision Efficiencies for NH ₂ +H(+M) and NH ₂ +NH ₂ (+M). Journal of Physical Chemistry A, 2021, 125, 1505-1516.	2.5	43
180	Techno-economic assessment of commercial ammonia synthesis methods in coastal areas of Germany. Journal of Energy Storage, 2021, 34, 102201.	8.1	34
181	Ultraviolet Absorption Cross-Sections of Ammonia at Elevated Temperatures for Nonintrusive Quantitative Detection in Combustion Environments. Applied Spectroscopy, 2021, 75, 1168-1177.	2.2	13
182	Numerical investigation of the effects of H2/CO/syngas additions on laminar premixed combustion characteristics of NH3/air flame. International Journal of Hydrogen Energy, 2021, 46, 12016-12030.	7.1	37

#	ARTICLE	IF	Citations
184	Renewable ammonia for sustainable energy and agriculture: vision and systems engineering opportunities. Current Opinion in Chemical Engineering, 2021, 31, 100667.	7.8	63
185	Assessment of offloading pathways for wind-powered offshore hydrogen production: Energy and economic analysis. Applied Energy, 2021, 286, 116553.	10.1	57
186	Stability limits and NO emissions of premixed swirl ammonia-air flames enriched with hydrogen or methane at elevated pressures. International Journal of Hydrogen Energy, 2021, 46, 11969-11981.	7.1	91
187	Emissions Performance of Staged Premixed and Diffusion Combustor Concepts for an NH3/Air Flame With and Without Reactant Humidification. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	21
188	Experimental and Kinetic Investigation of Stoichiometric to Rich NH ₃ /H ₂ /Air Flames in a Swirl and Bluff-Body Stabilized Burner. Energy & Fuels, 2021, 35, 7201-7216.	5.1	24
189	Ammonia Capture within Zirconium Metal–Organic Frameworks: Reversible and Irreversible Uptake. ACS Applied Materials & Interfaces, 2021, 13, 20081-20093.	8.0	36
190	Soot formation in turbulent flames of ethylene/hydrogen/ammonia. Combustion and Flame, 2021, 226, 315-324.	5.2	33
191	Experimental investigation and modeling of boundary layer flashback for non-swirling premixed hydrogen/ammonia/air flames. Combustion and Flame, 2021, 226, 362-379.	5.2	25
192	Hydrogenation and Hydrogenolysis with Ruthenium Catalysts and Application to Biomass Conversion. , 0, , .		0
193	Room Temperature Metal Hydrides for Stationary and Heat Storage Applications: A Review. Frontiers in Energy Research, 2021, 9, .	2.3	45
194	Emission characteristics and heat release rate surrogates for ammonia premixed laminar flames. International Journal of Hydrogen Energy, 2021, 46, 13461-13470.	7.1	25
195	Theoretical investigation of the combustion performance of ammonia/hydrogen mixtures on a marine diesel engine. International Journal of Hydrogen Energy, 2021, 46, 14805-14812.	7.1	94
196	Mixed Use of Bio-Oil in Oil Power Plants: Should It Be Considered When Developing NH3 Emission Factors?. International Journal of Environmental Research and Public Health, 2021, 18, 4235.	2.6	0
197	Emerging Materials and Methods toward Ammoniaâ€Based Energy Storage and Conversion. Advanced Materials, 2021, 33, e2005721.	21.0	137
198	Hydrogen production via ammonia from methane integrated with enhanced oil recovery: A techno-economic analysis. Journal of Environmental Chemical Engineering, 2021, 9, 105050.	6.7	3
199	Carbon doped hexagonal boron nitride nanoribbon as efficient metal-free electrochemical nitrogen reduction catalyst. Chemical Engineering Journal, 2021, 410, 128419.	12.7	59
200	A Comparative Environmental Life Cycle Assessment of the Combustion of Ammonia/Methane Fuels in a Tangential Swirl Burner. Frontiers in Chemical Engineering, 2021, 3, .	2.7	7
201	The Position of Ammonia in Decarbonising Maritime Industry: An Overview and Perspectives: Part I. Johnson Matthey Technology Review, 2021, 65, 275-290.	1.0	19

#	Article	IF	CITATIONS
202	Exceptional Packing Density of Ammonia in a Dual-Functionalized Metal–Organic Framework. Journal of the American Chemical Society, 2021, 143, 6586-6592.	13.7	37
203	Production of ammonia as potential hydrogen carrier: Review on thermochemical and electrochemical processes. International Journal of Hydrogen Energy, 2021, 46, 14455-14477.	7.1	74
204	Review of the Decomposition of Ammonia to Generate Hydrogen. Industrial & Engineering Chemistry Research, 2021, 60, 18560-18611.	3.7	159
205	Effects of ammonia addition on soot formation in ethylene laminar diffusion flames. Fuel, 2021, 292, 120416.	6.4	47
206	Enhanced Ammonia Oxidation Catalysis by a Low-Spin Iron Complex Featuring <i>Cis</i> Coordination Sites. Journal of the American Chemical Society, 2021, 143, 7612-7616.	13.7	36
207	Ammonia as an energy vector: Current and future prospects for low-carbon fuel applications in internal combustion engines. Journal of Cleaner Production, 2021, 296, 126562.	9.3	194
208	Designing Low-Viscosity Deep Eutectic Solvents with Multiple Weak-Acidic Groups for Ammonia Separation. ACS Sustainable Chemistry and Engineering, 2021, 9, 7352-7360.	6.7	86
210	Capping agentâ€free synthesis of surface engineered Pt nanocube for direct ammonia fuel cell. International Journal of Energy Research, 2021, 45, 18281-18291.	4.5	7
211	An experimental and kinetic modeling study on the laminar burning velocity of NH3+N2O+air flames. Combustion and Flame, 2021, 228, 13-28.	5.2	56
212	The regulation effect of methane and hydrogen on the emission characteristics of ammonia/air combustion in a model combustor. International Journal of Hydrogen Energy, 2021, 46, 21013-21025.	7.1	75
213	Characterising premixed ammonia and hydrogen combustion for a novel Linear Joule Engine Generator. International Journal of Hydrogen Energy, 2021, 46, 23075-23090.	7.1	10
214	Circular Materials and Circular Design—Review on Challenges Towards Sustainable Manufacturing and Recycling. Circular Economy and Sustainability, 2022, 2, 9-23.	5.5	28
215	A critical review of ammonia recovery from anaerobic digestate of organic wastes via stripping. Renewable and Sustainable Energy Reviews, 2021, 143, 110903.	16.4	46
216	Super selective ammonia separation through multiple-site interaction with ionic liquid-based hybrid membranes. Journal of Membrane Science, 2021, 628, 119264.	8.2	31
217	Effects of nitrogen and argon on ammonia-oxygen explosion. International Journal of Hydrogen Energy, 2021, 46, 21249-21259.	7.1	10
218	Grapheneâ€doped ZnS nanoparticles synthesized via hydrothermal route for enhanced electrocatalytic performance. International Journal of Applied Ceramic Technology, 2021, 18, 1510-1526.	2.1	5
219	Ammonia oxidation regimes and transitional behaviors in a Jet Stirred Flow Reactor. Combustion and Flame, 2021, 228, 388-400.	5.2	21
220	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. Energies, 2021, 14, 3732.	3.1	50

#	Article	IF	Citations
221	Recent advances in CO2 hydrogenation to value-added products — Current challenges and future directions. Progress in Energy and Combustion Science, 2021, 85, 100905.	31.2	134
222	Numerical simulation of ammonia/methane/air combustion using reduced chemical kinetics models. International Journal of Hydrogen Energy, 2021, 46, 23548-23563.	7.1	45
223	Evaluation of NO emissions characteristics in a CO2-Free micro-power system by implementing a perforated plate. Renewable and Sustainable Energy Reviews, 2021, 145, 111150.	16.4	91
224	Redoxâ€Mediated Ambient Electrolytic Nitrogen Reduction for Hydrazine and Ammonia Generation. Angewandte Chemie, 2021, 133, 18869-18875.	2.0	3
225	Numerical study on fuel-NO formation characteristics of ammonia-added methane fuel in laminar non-premixed flames with oxygen/carbon dioxide oxidizer. Energy, 2021, 226, 120365.	8.8	8
226	Toward a More Comprehensive Understanding of the Kinetics of a Common Biomass-Derived Impurity: NH ₃ Oxidation by N ₂ O in a Jet-Stirred Reactor. Energy & Fuels, 2021, 35, 13338-13348.	5.1	10
227	Advances in Hydrogen Production from Natural Gas Reforming. Advanced Energy and Sustainability Research, 2021, 2, 2100097.	5.8	73
228	Evaluating ammonia as green fuel for power generation: A thermo-chemical perspective. Applied Energy, 2021, 293, 116956.	10.1	43
229	Redoxâ€Mediated Ambient Electrolytic Nitrogen Reduction for Hydrazine and Ammonia Generation. Angewandte Chemie - International Edition, 2021, 60, 18721-18727.	13.8	35
230	The Role of Electrofuels under Uncertainties for the Belgian Energy Transition. Energies, 2021, 14, 4027.	3.1	19
231	Global potential of green ammonia based on hybrid PV-wind power plants. Applied Energy, 2021, 294, 116170.	10.1	174
232	Operating Limits for Ammonia Fuel Spark-Ignition Engine. Energies, 2021, 14, 4141.	3.1	48
233	Small-Scale Biomass Gasification for Green Ammonia Production in Portugal: A Techno-Economic Study. Energy & Fuels, 2021, 35, 13847-13862.	5.1	18
234	Study of effects of ammonia addition on soot formation characteristics in n-heptane co-flow laminar diffusion flames. Combustion and Flame, 2022, 235, 111683.	5.2	39
235	Route to zero emission shipping: Hydrogen, ammonia or methanol?. International Journal of Hydrogen Energy, 2021, 46, 28282-28297.	7.1	116
236	Assessment of ammonia as energy carrier in the use with reversible solid oxide cells. International Journal of Hydrogen Energy, 2021, 46, 30112-30123.	7.1	19
237	Performance of ammonia fuel in a spark assisted compression Ignition engine. International Journal of Engine Research, 2022, 23, 781-792.	2.3	23
238	Optimization of green ammonia distribution systems for intercontinental energy transport. IScience, 2021, 24, 102903.	4.1	32

#	Article	IF	CITATIONS
239	Piezo-enhanced activation of dinitrogen for room temperature production of ammonia. Nanotechnology, 2021, 32, 465601.	2.6	3
240	Methanol as a renewable energy carrier: An assessment of production and transportation costs for selected global locations. Advances in Applied Energy, 2021, 3, 100050.	13.2	81
241	Planar laser-induced photofragmentation fluorescence for quantitative ammonia imaging in combustion environments. Combustion and Flame, 2021, 235, 111687.	5.2	1
242	Effects of radiation reabsorption on laminar NH3/H2/air flames. Combustion and Flame, 2022, 235, 111699.	5.2	23
243	A framework for a hydrogen economy. Joule, 2021, 5, 1905-1908.	24.0	72
244	Single-atom catalysts for electrochemical energy storage and conversion. Journal of Energy Chemistry, 2021, 63, 170-194.	12.9	61
245	Large eddy simulation on flame topologies and the blow-off characteristics of ammonia/air flame in a model gas turbine combustor. Fuel, 2021, 298, 120846.	6.4	35
246	Optimizing Nitrogen Reduction Reaction on Nitrides: A Computational Study on Crystallographic Orientation. Topics in Catalysis, 2022, 65, 252-261.	2.8	14
247	Interaction of NH3 and NO under combustion conditions. Experimental flow reactor study and kinetic modeling simulation. Combustion and Flame, 2022, 235, 111691.	5.2	21
248	An experimental and modeling study of ammonia pyrolysis. Combustion and Flame, 2022, 235, 111694.	5.2	48
249	Potential of green ammonia production in India. International Journal of Hydrogen Energy, 2021, 46, 27247-27267.	7.1	40
250	Advancements of combustion technologies in the ammonia-fuelled engines. Energy Conversion and Management, 2021, 244, 114460.	9.2	168
251	Uncovering Redox Non-innocent Hydrogen-Bonding in Cu(I)-Diazene Complexes. Journal of the American Chemical Society, 2021, 143, 15960-15974.	13.7	7
252	Sustainable hydrogen roadmap: A holistic review and decision-making methodology for production, utilisation and exportation using Qatar as a case study. International Journal of Hydrogen Energy, 2021, 46, 35525-35549.	7.1	60
253	Atmospheric Pressure DBD Plasma Ammonia Synthesis and Separation Process Design and Environmental Impact Assessment. ACS Sustainable Chemistry and Engineering, 2021, 9, 13233-13244.	6.7	11
254	Chemiluminescence signature of premixed ammonia-methane-air flames. Combustion and Flame, 2021, 231, 111508.	5.2	43
255	Conversion of dinitrogen to ammonia by rhenium doped graphyne. International Journal of Hydrogen Energy, 2021, 46, 33409-33419.	7.1	5
256	Thermodynamic analysis of a novel multi-target-temperature cascade cycle for refrigeration. Energy Conversion and Management, 2021, 243, 114380.	9.2	20

#	Article	IF	CITATIONS
257	Laminar burning characteristics of ammonia/hydrogen/air mixtures with laser ignition. International Journal of Hydrogen Energy, 2021, 46, 31879-31893.	7.1	47
258	Influence of functional groups on low-temperature combustion chemistry of biofuels. Progress in Energy and Combustion Science, 2021, 86, 100925.	31.2	58
259	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. Applications in Energy and Combustion Science, 2021, 7, 100038.	1.5	12
260	The role of combustion science and technology in low and zero impact energy transformation processes. Applications in Energy and Combustion Science, 2021, 7, 100040.	1.5	17
261	A review on ammonia, ammonia-hydrogen and ammonia-methane fuels. Renewable and Sustainable Energy Reviews, 2021, 147, 111254.	16.4	343
262	Flame front evolution and laminar flame parameter evaluation of buoyancy-affected ammonia/air flames. International Journal of Hydrogen Energy, 2021, 46, 38504-38518.	7.1	20
263	New reactions of diazene and related species for modelling combustion of amine fuels. Molecular Physics, 2021, 119, .	1.7	15
264	Study of the oxidation of ammonia in a flow reactor. Experiments and kinetic modeling simulation. Fuel, 2021, 300, 120979.	6.4	37
265	Progress in green ammonia production as potential carbon-free fuel. Fuel, 2021, 299, 120845.	6.4	161
266	Reaction Rate of Hydrothermal Ammonia Production from Chicken Manure. ACS Omega, 2021, 6, 23442-23446.	3.5	8
267	Enhancement of ammonia combustion with partial fuel cracking strategy: Laminar flame propagation and kinetic modeling investigation of NH3/H2/N2/air mixtures up to 10 atm. Combustion and Flame, 2021, 231, 111472.	5.2	120
268	Recent Advances in Ammonia Combustion Technology in Thermal Power Generation System for Carbon Emission Reduction. Energies, 2021, 14, 5604.	3.1	36
269	Development and assessment of a solar driven trigeneration system with storage for electricity, ammonia and fresh water production. Energy Conversion and Management, 2021, 245, 114585.	9.2	14
270	Industrial decarbonization via hydrogen: A critical and systematic review of developments, socio-technical systems and policy options. Energy Research and Social Science, 2021, 80, 102208.	6.4	171
271	Recovery and applications of ammoniacal nitrogen from nitrogen-loaded residual streams: A review. Journal of Environmental Management, 2021, 295, 113096.	7.8	24
272	Curvature effects on NO formation in wrinkled laminar ammonia/hydrogen/nitrogen-air premixed flames. Combustion and Flame, 2021, 232, 111520.	5.2	36
273	Redox Targeting of Energy Materials for Energy Storage and Conversion. Advanced Materials, 2022, 34, e2104562.	21.0	32
274	Challenges and opportunities of marine propulsion with alternative fuels. Renewable and Sustainable Energy Reviews, 2021, 149, 111397.	16.4	42

#	Article	IF	CITATIONS
275	Direct ammonia solid-oxide fuel cells: A review of progress and prospects. International Journal of Hydrogen Energy, 2021, 46, 35365-35384.	7.1	89
276	How sensitive is a dynamic ammonia synthesis process? Global sensitivity analysis of a dynamic Haber-Bosch process (for flexible seasonal energy storage). Energy, 2021, 232, 121016.	8.8	25
277	Hydrogen storage technologies for stationary and mobile applications: Review, analysis and perspectives. Renewable and Sustainable Energy Reviews, 2021, 149, 111311.	16.4	322
278	INVESTIGATION OF RENEWABLE ENERGY USE IN THE P2X TECHNOLOGY. International Journal of Chemistry Research, 0, , 19-30.	0.0	0
279	NOx emission and energy conversion efficiency studies on ammonia-powered micro-combustor with ring-shaped ribs in fuel-rich combustion. Journal of Cleaner Production, 2021, 320, 128901.	9.3	39
280	Injection characteristics and fuel-air mixing process of ammonia jets in a constant volume vessel. Fuel, 2021, 304, 121408.	6.4	23
281	Experimental and kinetic modeling study on NH3/syngas/air and NH3/bio-syngas/air premixed laminar flames at elevated temperature. Combustion and Flame, 2021, 233, 111594.	5.2	38
282	Techno-economic review of alternative fuels and propulsion systems for the aviation sector. Renewable and Sustainable Energy Reviews, 2021, 151, 111564.	16.4	61
283	A review ofÂcleanerÂalternative fuels for maritime transportation. Energy Reports, 2021, 7, 1962-1985.	5.1	136
284	Microalgae and ammonia: A review on inter-relationship. Fuel, 2021, 303, 121303.	6.4	86
285	Progress of ship exhaust gas control technology. Science of the Total Environment, 2021, 799, 149437.	8.0	44
286	Stabilization mechanisms of an ammonia/methane non-premixed jet flame up to liftoff. Combustion and Flame, 2021, 234, 111657.	5.2	11
287	Combustion chemistry of ammonia/hydrogen mixtures: Jet-stirred reactor measurements and comprehensive kinetic modeling. Combustion and Flame, 2021, 234, 111653.	5.2	146
288	Experimental and numerical study on premixed partially dissociated ammonia mixtures. Part II: Numerical study of premixed combustion characteristics. Fuel, 2021, 306, 121660.	6.4	17
289	Effect and mechanism of combustion enhancement and emission reduction for non-premixed pure ammonia combustion based on fuel preheating. Fuel, 2022, 308, 122017.	6.4	26
290	Effects of ammonia and hydrogen on the sooting characteristics of laminar coflow flames of ethylene and methane. Fuel, 2022, 307, 121914.	6.4	35
291	Circular materials—An essay on challenges with current manufacturing and recycling strategies as well as on the potential of life cycle integrated designs. , 2022, , 359-372.		3
292	Chemical speciation and soot measurements in laminar counterflow diffusion flames of ethylene and ammonia mixtures. Fuel, 2022, 308, 122003.	6.4	39

#	Article	IF	CITATIONS
293	Fuelling a solid oxide fuel cell with ammonia recovered from water by vacuum membrane stripping. Chemical Engineering Journal, 2022, 428, 131081.	12.7	13
294	Outlook for ammonia as a sustainable transportation fuel. Sustainable Energy and Fuels, 2021, 5, 4830-4841.	4.9	36
295	A single-site iron catalyst with preoccupied active centers that achieves selective ammonia electrosynthesis from nitrate. Energy and Environmental Science, 2021, 14, 3522-3531.	30.8	243
296	Compositional flexibility in Li–N–H materials: implications for ammonia catalysis and hydrogen storage. Physical Chemistry Chemical Physics, 2021, 23, 15091-15100.	2.8	15
298	Plasma-catalytic ammonia synthesis beyond thermal equilibrium on Ru-based catalysts in non-thermal plasma. Catalysis Science and Technology, 2021, 11, 2834-2843.	4.1	36
299	Combustion in the future: The importance of chemistry. Proceedings of the Combustion Institute, 2021, 38, 1-56.	3.9	66
300	Can sustainable ammonia synthesis pathways compete with fossil-fuel based Haber–Bosch processes?. Energy and Environmental Science, 2021, 14, 2535-2548.	30.8	162
301	A comparison of the blow-out behavior of turbulent premixed ammonia/hydrogen/nitrogen-air and methane–air flames. Proceedings of the Combustion Institute, 2021, 38, 2869-2876.	3.9	74
302	Study on counterflow premixed flames using high concentration ammonia mixed with methane. Fuel, 2020, 275, 117902.	6.4	57
303	Ammonia oxidation features in a Jet Stirred Flow Reactor. The role of NH2 chemistry Fuel, 2020, 276, 118054.	6.4	44
304	Potential Economic Feasibility of Direct Electrochemical Nitrogen Reduction as a Route to Ammonia. ACS Sustainable Chemistry and Engineering, 2020, 8, 8938-8948.	6.7	75
305	An approach to study electron and positron scattering from NH ₃ and PH ₃ using the analytic static potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 225204.	1.5	6
306	Improved ammonia production from soybean residues by cell surface-displayed <scp>l</scp> -amino acid oxidase on yeast. Bioscience, Biotechnology and Biochemistry, 2021, 85, 972-980.	1.3	7
307	Construction of engineered yeast producing ammonia from glutamine and soybean residues (okara). AMB Express, 2020, 10, 70.	3.0	10
308	Novel dilution sampling method for gas analysis with a low sampling rate. Mechanical Engineering Journal, 2020, 7, 19-00193-19-00193.	0.4	3
309	Femtosecond laser-induced plasma spectroscopy for combustion diagnostics in premixed ammonia/air flames. Applied Optics, 2019, 58, 7810.	1.8	17
310	Comparison of detailed reaction mechanisms for homogeneous ammonia combustion. Zeitschrift Fur Physikalische Chemie, 2020, 234, 1329-1357.	2.8	21
311	Performance and Emissions of an Ammonia-Fueled SI Engine with Hydrogen Enrichment. , 0, ,		61

#	Article	IF	CITATIONS
312	Combustion Characteristics of Ammonia in a Modern Spark-Ignition Engine. , 0, , .		56
313	Dual performing copper–platinum core–shell nanozyme for environmental electrochemistry–electrocatalytic oxidation and electroanalysis of ammonia. Environmental Science: Nano, 2021, 8, 3603-3612.	4.3	8
314	Chemical structure and laminar burning velocity of atmospheric pressure premixed ammonia/hydrogen flames. International Journal of Hydrogen Energy, 2021, 46, 39942-39954.	7.1	34
315	Large Eddy Simulation of rich ammonia/hydrogen/air combustion in a gas turbine burner. International Journal of Hydrogen Energy, 2021, 46, 39548-39562.	7.1	21
316	Numerical Analysis on the Evolution of NH ₂ in Ammonia/hydrogen Swirling Flames and Detailed Sensitivity Analysis under Elevated Conditions. Combustion Science and Technology, 2023, 195, 1251-1278.	2.3	11
317	Numerical analysis on the combustion characteristics of NH3/H2/air flames with elevated initial pressure and temperature. International Journal of Hydrogen Energy, 2021, 46, 39563-39576.	7.1	6
318	Effect of ammonia addition on combustion and emissions performance of a hydrogen engine at part load and stoichiometric conditions. International Journal of Hydrogen Energy, 2021, 46, 40143-40153.	7.1	34
319	The effect of anode degradation on energy demand and production efficiency of electrochemically precipitated struvite. Journal of Applied Electrochemistry, 2022, 52, 205-215.	2.9	6
320	A Review on Combustion Characteristics of Ammonia as a Carbon-Free Fuel. Frontiers in Energy Research, 2021, 9, .	2.3	21
321	Environmental Life Cycle Assessment of Ammonia-Based Electricity. Energies, 2021, 14, 6721.	3.1	18
322	Study on the mechanism of the ignition process of ammonia/hydrogen mixture under high-pressure direct-injection engine conditions. International Journal of Hydrogen Energy, 2021, 46, 38871-38886.	7.1	24
323	Review on COx-free hydrogen from methane cracking: Catalysts, solar energy integration and applications. Energy Conversion and Management: X, 2021, 12, 100117.	1.6	4
324	Energy Storage Technologies. , 2015, , 963-990.		0
325	Applications in Renewable Energy. Power Systems, 2020, , 43-103.	0.5	0
326	Burner Designs for Clean Power Generation in Gas Turbines. Fluid Mechanics and Its Applications, 2020, , 99-164.	0.2	0
327	Capacity Optimization of Hydrogen Buffer Tanks in Renewable Power to Ammonia (P2A) System. , 2020, ,		4
329	Ignition delay time and laminar flame speed measurements of ammonia blended with dimethyl ether: A promising low carbon fuel blend. Renewable Energy, 2022, 181, 1353-1370.	8.9	92
330	Hydrogen storage. , 2022, , 455-486.		23

	Сітатіо	n Report	
#	Article	IF	CITATIONS
331	Theoretical kinetics predictions for NH2Â+ÂHO2. Combustion and Flame, 2022, 236, 111787.	5.2	41
332	Experimental study and numerical validation of oxy-ammonia combustion at elevated temperatures and pressures. Combustion and Flame, 2022, 236, 111819.	5.2	23
333	Experimental and theoretical calculations study on heterogeneous reduction of NO by char/NH3 in the reduction zone of ammonia co-firing with pulverized coal: Influence of mineral Fe. Fuel, 2022, 310, 122374.	6.4	31
334	Measurement of the laminar burning velocity and kinetics study of the importance of the hydrogen recovery mechanism of ammonia/hydrogen/air premixed flames. Combustion and Flame, 2022, 236, 111753	5.2	64
335	Applying heat flux method to laminar burning velocity measurements of NH3/CH4/air at elevated pressures and kinetic modeling study. Combustion and Flame, 2022, 236, 111788.	5.2	50
336	The influence of ammonia on the laminar burning velocities of methylcyclohexane and toluene: An experimental and kinetic modeling study. Combustion and Flame, 2022, 237, 111839.	5.2	12
337	Ammonia from Steelworks. Green Energy and Technology, 2020, , 69-80.	0.6	3
338	Reducing CO2 emissions in heavy-duty spark ignited engines for electric power using alternative fuels. Proceedings, 2020, , 223-242.	0.3	0
339	Preliminary prospects of a Carnot-battery based on a supercritical CO2 Brayton cycle. Acta Polytechnica, 2021, 61, 644-660.	0.6	5
340	Spontaneous N2 formation by a diruthenium complex enables electrocatalytic and aerobic oxidation of ammonia. Nature Chemistry, 2021, 13, 1221-1227.	13.6	39
341	Practical Model for Optimal Carbon Control With Distributed Energy Resources. IEEE Access, 2021, 9, 161603-161612.	4.2	10
342	Perspective of the role of hydrogen in the 21st century energy transition. Energy Conversion and Management, 2022, 251, 114898.	9.2	257
343	Review on the production and utilization of green ammonia as an alternate fuel in dual-fuel compression ignition engines. Energy Conversion and Management, 2022, 251, 114990.	9.2	153
344	Highly-integrated and Cost-efficient Ammonia-fueled fuel cell system for efficient power generation: A comprehensive system optimization and Techno-Economic analysis. Energy Conversion and Management, 2022, 251, 114917.	9.2	20
345	Effects of initial mixture temperature and pressure on laminar burning velocity and Markstein length of ammonia/air premixed laminar flames. Fuel, 2022, 310, 122149.	6.4	46
346	The effect of ammonia co-firing on NO heterogeneous reduction in the high-temperature reduction zone of coal air-staging combustion: Experimental and quantum chemistry study. Combustion and Flame, 2022, 237, 111857.	5.2	36
347	Photocatalytic hydrogen production using liquid phase plasma from ammonia water over metal ion-doped TiO2 photocatalysts. Catalysis Today, 2022, 397-399, 165-172.	4.4	11
348	Green hydrogen-based pathways and alternatives: Towards the renewable energy transition in South America's regions–Part B. International Journal of Hydrogen Energy, 2022, 47, 1-15.	7.1	28

#	Article	IF	CITATIONS
349	Experimental and numerical study on premixed partially dissociated ammonia mixtures. Part I: Laminar burning velocity of NH3/H2/N2/air mixtures. International Journal of Hydrogen Energy, 2022, 47, 4171-4184.	7.1	38
350	Kinetic modeling investigation on the NH3/C2H5OH/air laminar premixed burning characteristics at different equivalence ratios. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-14.	2.3	3
351	Limitations of Ammonia as a Hydrogen Energy Carrier for the Transportation Sector. ACS Energy Letters, 2021, 6, 4390-4394.	17.4	115
352	Hot Spots in the Weak Detonation Problem and Special Relativity. Axioms, 2021, 10, 311.	1.9	2
353	Singleâ€Atomic Ruthenium Active Sites on Ti ₃ C ₂ MXene with Oxygenâ€Terminated Surface Synchronize Enhanced Activity and Selectivity for Electrocatalytic Nitrogen Reduction to Ammonia. ChemSusChem, 2022, 15, e202102352.	6.8	17
354	Experimental study and mechanism analysis of the NOx emissions in the NH3 MILD combustion by a novel burner. Fuel, 2022, 310, 122417.	6.4	22
355	Techno-economic Analysis of a Biorenewable Route to Produce Trimellitic Acid. Materials Science for Energy Technologies, 2021, , .	1.8	0
356	Post COVID-19 ENERGY sustainability and carbon emissions neutrality. Energy, 2022, 241, 122801.	8.8	57
358	Flammability enhancement of swirling ammonia/air combustion using AC powered gliding arc discharges. Fuel, 2022, 313, 122674.	6.4	32
359	Effects of ammonia energy fraction and diesel injection timing on combustion and emissions of an ammonia/diesel dual-fuel engine. Fuel, 2022, 314, 122723.	6.4	127
360	Size sensitivity of supported Ru catalysts for ammonia synthesis: From nanoparticles to subnanometric clusters and atomic clusters. CheM, 2022, 8, 749-768.	11.7	59
361	Conception and optimization of an ammonia synthesis superstructure for energy storage. Chemical Engineering Research and Design, 2022, 177, 826-842.	5.6	3
362	Plasma-assisted ammonia synthesis in a packed-bed dielectric barrier discharge reactor: effect of argon addition. Vacuum, 2022, 197, 110786.	3.5	12
363	High-frequency transverse combustion instabilities of lean-premixed multislit hydrogen-air flames. Combustion and Flame, 2022, 238, 111899.	5.2	16
364	Effects of mixture composition on oxidation and reactivity of DME/NH3/air mixtures examined by a micro flow reactor with a controlled temperature profile. Combustion and Flame, 2022, 238, 111911.	5.2	20
365	Smart technologies for energy consumption management. SHS Web of Conferences, 2021, 128, 02005.	0.2	0
366	A high-performance and durable direct NH3 tubular protonic ceramic fuel cell integrated with an internal catalyst layer. Applied Catalysis B: Environmental, 2022, 306, 121071.	20.2	33
367	A comprehensive review of solid oxide fuel cells operating on various promising alternative fuels. Energy Conversion and Management, 2022, 253, 115175.	9.2	117

#	Article	IF	CITATIONS
368	Renewable energy integration with hot compressed water in heavy oil upgrading: A practice toward sustainability. Journal of Cleaner Production, 2022, 334, 130268.	9.3	11
369	Investigation of wet ammonia combustion characteristics using LES with finite-rate chemistry. Fuel, 2022, 311, 122422.	6.4	8
370	Enhancing and assessing ammonia-air combustion performance by blending with dimethyl ether. Renewable and Sustainable Energy Reviews, 2022, 156, 112003.	16.4	104
371	Ammonia/oxygen-enriched air continuous rotating detonation in the hollow chamber. Fuel, 2022, 311, 122166.	6.4	9
372	High purity, self-sustained, pressurized hydrogen production from ammonia in a catalytic membrane reactor. Chemical Engineering Journal, 2022, 431, 134310.	12.7	36
373	Experimental study on structure and blow-off characteristics of NH3/CH4 co-firing flames in a swirl combustor. Fuel, 2022, 314, 123027.	6.4	17
374	Emissions Performance of Staged Premixed and Diffusion Combustor Concepts for an NH3/Air Flame With and Without Reactant Humidification. , 2020, , .		0
375	Hydrogen strategy as an energy transition and economic transformation avenue for natural gas exporting countries: Qatar as a case study. International Journal of Hydrogen Energy, 2022, 47, 4977-5009.	7.1	46
376	A Laser-Based Multipass Absorption Sensor for Sub-ppm Detection of Methane, Acetylene and Ammonia. Sensors, 2022, 22, 556.	3.8	8
377	Effects of inter-stage mixing on the NOx emission of staged ammonia combustion. International Journal of Hydrogen Energy, 2022, 47, 9791-9799.	7.1	16
378	Reducing NO _{<i>x</i>} Emission of Swirl-Stabilized Ammonia/Methane Tubular Flames through a Fuel-Oxidizer Mixing Strategy. Energy & Fuels, 2022, 36, 2277-2287.	5.1	12
379	Facilitating green ammonia manufacture under milder conditions: what do heterogeneous catalyst formulations have to offer?. Chemical Science, 2022, 13, 890-908.	7.4	29
380	Ammonia for Decarbonized Maritime Transportation. Energy, Environment, and Sustainability, 2022, , 171-199.	1.0	6
381	Investigation of Ammonia-Hydrogen Mixture as a Green Fuel for Jet Engines Using a Wave Reformer. , 2022, , .		1
382	Temperature Dependence of Laminar Burning Velocity in Ammonia/Dimethyl Ether-air Premixed Flames. Journal of Thermal Science, 2022, 31, 189-197.	1.9	35
383	Perspective on the hydrogen economy as a pathway to reach net-zero CO ₂ emissions in Europe. Energy and Environmental Science, 2022, 15, 1034-1077.	30.8	132
384	End-gas autoignition and knocking combustion of ammonia/hydrogen/air mixtures in a confined reactor. International Journal of Hydrogen Energy, 2022, 47, 8585-8602.	7.1	11
386	An overview of some futurist advanced biofuels and their conversion technologies. , 2022, , 1-20.		1

#	Article	IF	CITATIONS
387	Plasma assisted ammonia combustion: enhanced flame stability and reduced NOx emission. , 2022, , .		1
388	Ammonia-hydrogen-air gas turbine cycle and control analyses. International Journal of Hydrogen Energy, 2022, 47, 8603-8620.	7.1	21
389	Plasma-assisted ammonia synthesis in a packed-bed dielectric barrier discharge reactor: roles of dielectric constant and thermal conductivity of packing materials. Plasma Science and Technology, 2022, 24, 025503.	1.5	7
390	Exsolution in La and Ni co-doped strontium titanate: a suitable anode for running SOFCs on ammonia as alternative fuel. E3S Web of Conferences, 2022, 334, 04008.	0.5	0
391	Lithium-ion batteries under pulsed current operation to stabilize future grids. Cell Reports Physical Science, 2022, 3, 100708.	5.6	19
392	System-level comparison of ammonia, compressed and liquid hydrogen as fuels for polymer electrolyte fuel cell powered shipping. International Journal of Hydrogen Energy, 2022, 47, 8565-8584.	7.1	36
393	Synergistic Effect of Co–Ni Bimetal on Plasma Catalytic Ammonia Synthesis. Plasma Chemistry and Plasma Processing, 2022, 42, 267-282.	2.4	12
394	Studies of a Highly Active Cobalt Atomic Cluster Catalyst for Ammonia Synthesis. ACS Sustainable Chemistry and Engineering, 2022, 10, 1951-1960.	6.7	11
395	New insight into NH3-H2 mutual inhibiting effects and dynamic regimes at low-intermediate temperatures. Combustion and Flame, 2022, 243, 111957.	5.2	22
396	Review of the Current Status of Ammonia-Blended Hydrogen Fuel Engine Development. Energies, 2022, 15, 1023.	3.1	22
397	Improving the Energy Yield of Plasma-Based Ammonia Synthesis with In Situ Adsorption. ACS Sustainable Chemistry and Engineering, 2022, 10, 1994-2000.	6.7	27
398	Numerical modelling of ammonia-coal co-firing in a pilot-scale fluidized bed reactor: Influence of ammonia addition for emissions control. Energy Conversion and Management, 2022, 254, 115226.	9.2	20
399	Techno-economic assessment of low-carbon hydrogen export from Western Canada to Eastern Canada, the USA, the Asia-Pacific, and Europe. International Journal of Hydrogen Energy, 2022, 47, 6453-6477.	7.1	48
400	Presenting a power and cascade cooling cycle driven using solar energy and natural gas. Renewable Energy, 2022, 186, 802-813.	8.9	11
401	Challenges in Kinetic modeling of ammonia pyrolysis. Fuel Communications, 2022, 10, 100049.	5.2	28
402	Optimisation-based system designs for deep offshore wind farms including power to gas technologies. Applied Energy, 2022, 310, 118540.	10.1	12
403	Shock-tube laser absorption measurements of N2O time histories during ammonia oxidation. Fuel Communications, 2022, 10, 100050.	5.2	23
404	New catalysts based on reduced graphene oxide for hydrogen production from ammonia decomposition. Sustainable Chemistry and Pharmacy, 2022, 25, 100615.	3.3	12

# 405	ARTICLE NOx emission reduction in ammonia-powered micro-combustors by partially inserting porous medium under fuel-rich condition. Chemical Engineering Journal, 2022, 434, 134680.	IF 12.7	Citations
406	Carbon-free sustainable energy technology: Electrocatalytic ammonia oxidation reaction. Chemical Engineering Journal, 2022, 435, 134818.	12.7	35
407	A study on split diesel injection on thermal efficiency and emissions of an ammonia/diesel dual-fuel engine. Fuel, 2022, 316, 123412.	6.4	71
408	Numerical and experimental study of product gas characteristics in premixed ammonia/methane/air laminar flames stabilised in a stagnation flow. Fuel Communications, 2022, 10, 100054.	5.2	11
409	Direct numerical simulation of turbulent premixed ammonia and ammonia-hydrogen combustion under engine-relevant conditions. International Journal of Hydrogen Energy, 2022, 47, 11083-11100.	7.1	34
410	Effect of ammonia addition on combustion and emission characteristics of hydrogen-fueled engine under lean-burn condition. International Journal of Hydrogen Energy, 2022, 47, 9762-9774.	7.1	36
411	Experimental and 3D simulation study of a nitrogen–hydrogen fueled PEMFC. International Journal of Electrochemical Science, 0, , ArticleID:220313.	1.3	1
412	Review on the recent advances on ammonia combustion from the fundamentals to the applications. Fuel Communications, 2022, 10, 100053.	5.2	133
413	Numerical investigation on the combustion and emission characteristics of ammonia in a low-speed two-stroke marine engine. Fuel, 2022, 314, 122727.	6.4	60
414	Effect of intake method on ammonia/oxygen non-premixed combustion in the micro combustor with dual-inlet. Fuel, 2022, 317, 123504.	6.4	21
415	Development of Ammonia Fueled Solid Oxide Fuel Cells. Ceramist, 2021, 24, 368-385.	0.1	1
416	In situ grown Fe3O4 particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. Nano Research, 2022, 15, 3050-3055.	10.4	108
417	Green Ammonia Production-Enabled Demand Flexibility in Agricultural Community Microgrids with Distributed Renewables. SSRN Electronic Journal, 0, , .	0.4	0
418	Controllable No Emission and High Flame Performance of Ammonia Combustion Assisted by Non-Equilibrium Plasma. SSRN Electronic Journal, 0, , .	0.4	0
419	A Study on Endothermic, Heat Recovery, Heat Release and Emission Characteristics of Ammonia-Biodiesel Fuel Combustion. SSRN Electronic Journal, 0, , .	0.4	0
420	A Kalina cycle for low and medium enthalpy abandoned oil and gas reservoirs incorporated with solar technology for power production. , 2022, , 297-314.		0
421	A Review of the Latest Trends in the Use of Green Ammonia as an Energy Carrier in Maritime Industry. Energies, 2022, 15, 1453.	3.1	37
422	Ammonia mitigation and induction effects on hydrogen environment embrittlement of SCM440 low-alloy steel. International Journal of Hydrogen Energy, 2022, , .	7.1	3

#	Article	IF	CITATIONS
423	Experimental investigation on CO2-based combined cooling and power cycle. Energy Conversion and Management, 2022, 256, 115342.	9.2	5
424	Dynamics of the Ammonia Spray Using High-Speed Schlieren Imaging. SAE International Journal of Advances and Current Practices in Mobility, 0, 4, 1138-1153.	2.0	13
425	Ammonia eurefstics: Electrolytes for liquid energy storage and conversion at room temperature and ambient pressure. Joule, 2022, , .	24.0	0
426	Mitigating CO2 emission in pulverized coal-fired power plant via co-firing ammonia: A simulation study of flue gas streams and exergy efficiency. Energy Conversion and Management, 2022, 256, 115328.	9.2	51
427	Techno-economical evaluation of renewable hydrogen production through concentrated solar energy. Energy Conversion and Management, 2022, 258, 115372.	9.2	16
428	Exsolution in Ni-doped lanthanum strontium titanate: a perovskite-based material for anode application in ammonia-fed Solid Oxide Fuel Cell. International Journal of Hydrogen Energy, 2022, 47, 13921-13932.	7.1	20
429	A high-performance 75ÂW direct ammonia fuel cell stack. Cell Reports Physical Science, 2022, 3, 100829.	5.6	6
430	Prognostication of two-dimensional transition-metal atoms embedded rectangular tetrafluorotetracyanoquinodimethane single-atom catalysts for high-efficiency electrochemical nitrogen reduction. Journal of Colloid and Interface Science, 2022, 621, 24-32.	9.4	10
431	Effects of NH3/H2/N2 addition on soot morphology and nanostructure in laminar co-flow ethylene diffusion flame. International Journal of Hydrogen Energy, 2022, 47, 16321-16334.	7.1	19
432	Effect of different volume fractions of ammonia on the combustion and emission characteristics of the hydrogen-fueled engine. International Journal of Hydrogen Energy, 2022, 47, 16297-16308.	7.1	43
433	On the use of ammonia as a fuel $\hat{a} \in $ A perspective. Fuel Communications, 2022, 11, 100064.	5.2	43
434	Proposal and surrogate-based cost-optimal design of an innovative green ammonia and electricity co-production system via liquid air energy storage. Applied Energy, 2022, 314, 118965.	10.1	20
435	Liquid air as an emerging energy vector towards carbon neutrality: A multi-scale systems perspective. Renewable and Sustainable Energy Reviews, 2022, 159, 112201.	16.4	22
436	A review of analytical and optimization methodologies for transitions in multi-scale energy systems. Renewable and Sustainable Energy Reviews, 2022, 160, 112277.	16.4	12
437	Synthesis gas as a fuel for internal combustion engines in transportation. Progress in Energy and Combustion Science, 2022, 90, 100995.	31.2	44
438	Numerical study of heat release rate markers in laminar premixed Ammonia-methane-air flames. Fuel, 2022, 318, 123599.	6.4	18
439	Thermodynamic analysis and optimization of two low-grade energy driven transcritical CO2 combined cooling, heating and power systems. Energy, 2022, 249, 123765.	8.8	14
440	An experimental and modeling study of ammonia oxidation in a jet stirred reactor. Combustion and Flame, 2022, 240, 112007.	5.2	35

#	Article	IF	CITATIONS
441	Experimental and kinetic studies of laminar burning velocities of ammonia with high Lewis number at elevated pressures. Fuel, 2022, 320, 123913.	6.4	9
442	Ammonia/Methane combustion: Stability and NOx emissions. Combustion and Flame, 2022, 241, 112071.	5.2	91
443	Controllable NO emission and high flame performance of ammonia combustion assisted by non-equilibrium plasma. Fuel, 2022, 319, 123818.	6.4	20
444	Effects of NH3 addition on polycyclic aromatic hydrocarbon and soot formation in C2H4 co-flow diffusion flames. Combustion and Flame, 2022, 241, 111958.	5.2	33
445	Numerical study on propagation and NO reduction behavior of laminar stratified ammonia/air flames. Combustion and Flame, 2022, 241, 112102.	5.2	11
446	Conceptual comparison of three novel configurations in the spherical radial flow reactor for ammonia production. Fuel, 2022, 321, 123945.	6.4	4
447	The Use of Ammonia as a Fuel for Combustion Engines. Energy, Environment, and Sustainability, 2022, , 233-256.	1.0	3
448	Photocatalytic Reduction of Aqueous Nitrate with Hybrid Ag/g-C ₃ N ₄ under Ultraviolet and Visible Light. ACS Omega, 2021, 6, 34850-34856.	3.5	7
449	Scope and Limitations of Ammonia as Transport Fuel. Energy, Environment, and Sustainability, 2022, , 391-418.	1.0	2
450	Fuel Ammonia from Fossil Energy: Hydrocarbon Utilization for Sustainable Development. , 2021, , .		0
451	Environmental and economic evaluation of ammonia as a fuel for short-sea shipping: A case study. International Journal of Hydrogen Energy, 2022, 47, 18148-18168.	7.1	44
452	Experimental Investigation on the Combustion Characteristics of NH ₃ /H ₂ /air by the Spark Ignition and Turbulent Jet Ignition. Combustion Science and Technology, 2024, 196, 73-94.	2.3	9
453	NH3 combustion using three-layer stratified fuel injection for a large two-stroke marine engine: Experimental verification of the concept. Applications in Energy and Combustion Science, 2022, 10, 100071.	1.5	9
454	Selective adsorption of trace gaseous ammonia from air by a sulfonic acid-modified silica xerogel: Preparation, characterization and performance. Chemical Engineering Journal, 2022, 443, 136357.	12.7	18
457	Conversion of Nh3 and Nh3-No Mixtures in a Co2 Atmosphere. A Parametric Studyconversion of Nh3 and Nh3-No Mixtures in a Co2 Atmosphere. A Parametric Study. SSRN Electronic Journal, 0, , .	0.4	0
458	A PRELIMINARY EXPERIMENTAL INVESTIGATION INTO AMMONIA OXIDATION IN A FIXED-BED. International Journal of Energy for A Clean Environment, 2022, 23, 23-37.	1.1	3
459	Overcoming Nitrogen Reduction to Ammonia Detection Challenges: The Case for Leapfrogging to Gas Diffusion Electrode Platforms. ACS Catalysis, 2022, 12, 5726-5735.	11.2	24
460	Electrification of Catalytic Ammonia Production and Decomposition Reactions: From Resistance, Induction, and Dielectric Reactor Heating to Electrolysis. ACS Applied Energy Materials, 2022, 5, 5457-5472.	5.1	12

#	Article	IF	CITATIONS
461	Designâ€based risk assessment on an ammoniaâ€derived urban hydrogen refueling station. International Journal of Energy Research, 2022, 46, 12660-12673.	4.5	7
462	Shipping the sunshine: An open-source model for costing renewable hydrogen transport from Australia. International Journal of Hydrogen Energy, 2022, 47, 20362-20377.	7.1	32
463	Insight into the critical role of strong interaction between Ru and Co in RuCo single-atom alloy structure for significant enhancement of ammonia synthesis performance. Journal of Catalysis, 2022, 410, 256-265.	6.2	6
464	Green ammonia production-enabled demand flexibility in agricultural community microgrids with distributed renewables. Sustainable Energy, Grids and Networks, 2022, 31, 100736.	3.9	7
465	Effects of non-thermal plasma on turbulent premixed flames of ammonia/air in a swirl combustor. Fuel, 2022, 323, 124227.	6.4	17
466	Influence of radial fuel staging on combustion instabilities and exhaust emissions from lean-premixed multi-element hydrogen/methane/air flames. Combustion and Flame, 2022, 242, 112184.	5.2	12
467	Enantioselective synthesis of amino acids from ammonia. Nature Catalysis, 2022, 5, 571-577.	34.4	42
468	Engineering a Kesteriteâ€Based Photocathode for Photoelectrochemical Ammonia Synthesis from NO <i>_x</i> Reduction. Advanced Materials, 2022, 34, .	21.0	17
469	Pulsating one-dimensional detonation in ammonia-hydrogen–air mixtures. International Journal of Hydrogen Energy, 2022, 47, 21517-21536.	7.1	11
470	High Gravimetric and Volumetric Ammonia Capacities in Robust Metal–Organic Frameworks Prepared via Double Postsynthetic Modification. Journal of the American Chemical Society, 2022, 144, 9672-9683.	13.7	17
471	Development and validation of rare earth modified Fe-BEA SCR catalyst for mitigation of NOx from NH3 gas turbine. Cleaner Materials, 2022, 4, 100096.	5.1	1
472	Strategy for simultaneous multi-scalar imaging in turbulent NH3/H2 premixed flames using a single laser system. Combustion and Flame, 2022, 242, 112185.	5.2	9
473	Measurement and scaling of turbulent burning velocity of ammonia/methane/air propagating spherical flames at elevated pressure. Combustion and Flame, 2022, 242, 112183.	5.2	21
474	Electrocatalytic Ammonia Synthesis Using a Fe@Mxene Catalyst as Cathode of High-Temperature Proton-Conducting Solid Oxide Cell. SSRN Electronic Journal, 0, , .	0.4	0
475	Performance Analysis of an Ammonia-Fueled Micro Gas Turbine. Energies, 2022, 15, 3874.	3.1	8
476	Reaction zone characteristics, thermal performance and NOx/N2O emissions analyses of ammonia MILD combustion. International Journal of Hydrogen Energy, 2022, 47, 21013-21031.	7.1	30
477	A comprehensive review on the material performance affected by gaseous alternative fuels in internal combustion engines. Engineering Failure Analysis, 2022, 139, 106507.	4.0	8
478	A first-principles investigation of nitrogen reduction to ammonia on zirconium nitride and oxynitride surfaces. Journal of Materials Science, 2022, 57, 10213-10224.	3.7	8

#	Article	IF	CITATIONS
479	The role of power-to-X in hybrid renewable energy systems: A comprehensive review. Renewable and Sustainable Energy Reviews, 2022, 165, 112380.	16.4	31
480	Competition between NH3-O2 reaction and char-O2 reaction and its influence on NO generation and reduction during char/NH3 co-combustion: Reactive molecular dynamic simulations. Fuel, 2022, 324, 124666.	6.4	19
481	Stability and Emission Characteristics of Ammonia/Air Premixed Swirling Flames with Rotating Gliding Arc Discharge Plasma. SSRN Electronic Journal, 0, , .	0.4	1
482	Novel and leading-edge technology development. , 2022, , 577-603.		0
483	Catalyst-free production of ammonia by means of interaction between a gliding arc plasma and water surface. Journal Physics D: Applied Physics, 2022, 55, 395501.	2.8	6
484	Plasma reforming for enhanced ammonia-air ignition: A numerical study. Fuel Communications, 2022, 12, 100070.	5.2	16
485	Experimental and numerical analyses of nitrogen oxides formation in a high ammonia-low hydrogen blend using a tangential swirl burner. , 2022, 1, .		5
486	Green Ammonia as a flexible hydro-electricity carrier for Nepal. IOP Conference Series: Earth and Environmental Science, 2022, 1037, 012061.	0.3	1
487	Ammonia to chiral α-amino acid. Nature Catalysis, 2022, 5, 471-472.	34.4	0
488	Performance evaluation of ammonia-fueled flat-tube solid oxide fuel cells with different build-in catalysts. International Journal of Hydrogen Energy, 2022, 47, 23324-23334.	7.1	9
489	Promising material for large-scale H2 storage and efficient H2-CO2 separation. Separation and Purification Technology, 2022, 298, 121542.	7.9	7
490	Ammonia: A versatile candidate for the use in energy storage systems. Renewable Energy, 2022, 194, 955-977.	8.9	54
491	A discrete regenerative fuel cell mediated by ammonia for renewable energy conversion and storage. Applied Energy, 2022, 322, 119463.	10.1	7
492	A comparative study on the laminar C1–C4 n-alkane/NH3 premixed flame. Fuel, 2022, 324, 124732.	6.4	15
493	High-temperature ammonia detection using heterodyne phase-sensitive dispersion spectroscopy at 9.06Âμm. Fuel, 2022, 325, 124852.	6.4	6
494	Participation of alkali and sulfur in ammonia combustion chemistry: Investigation for ammonia/solid fuel co-firing applications. Combustion and Flame, 2022, 244, 112236.	5.2	7
495	Performance Estimation of a Downsized SI Engine Running with Hydrogen. Energies, 2022, 15, 4744.	3.1	7
496	ENVIRONMENTAL ASPECTS OF GREEN AMMONIA ROLE IN UKRAINIAN ENERGY SECTOR. Energy Technologies & Resource Saving, 2022, , 76-83.	0.8	1

#	Article	IF	Citations
497	DNS Study of Spherically Expanding Premixed Turbulent Ammonia-Hydrogen Flame Kernels, Effect of Equivalence Ratio and Hydrogen Content. Energies, 2022, 15, 4749.	3.1	2
498	Effects of using ammonia as a primary fuel on engine performance and emissions in an ammonia/biodiesel dualâ€fuel CI engine. International Journal of Energy Research, 2022, 46, 15347-15361.	4.5	32
499	Electrocatalytic conversion of nitrate waste into ammonia: a review. Environmental Chemistry Letters, 2022, 20, 2929-2949.	16.2	87
500	Emerging high-prospect applications in photothermal catalysis. Current Opinion in Green and Sustainable Chemistry, 2022, 37, 100652.	5.9	7
501	Stabilization and Emission Characteristics of Gliding Arc-Assisted NH ₃ /CH ₄ /Air Premixed Flames in a Swirl Combustor. Energy & Fuels, 2022, 36, 8520-8527.	5.1	8
502	Thermodynamic analysis of hydrogen utilization as alternative fuel in cement production. South African Journal of Chemical Engineering, 2022, 42, 23-31.	2.4	0
503	Numerical Investigation of Exergy Loss of Ammonia Addition in Hydrocarbon Diffusion Flames. Entropy, 2022, 24, 922.	2.2	1
504	Stability and characteristics of NH3/CH4/air flames in a combustor fired by a double swirl stabilized burner. Proceedings of the Combustion Institute, 2023, 39, 4205-4213.	3.9	10
505	Unraveling Pressure Effects in Laminar Flame Propagation of Ammonia: A Comparative Study with Hydrogen, Methane, and Ammonia/Hydrogen. Energy & Fuels, 2022, 36, 8528-8537.	5.1	11
506	Measurements of Soot Particulate Emissions of Ammonia-Ethylene Flames Using Laser Extinction Method. Energies, 2022, 15, 5209.	3.1	9
507	Effects of compression and mixing ratio on NH3/H2 fueled Si engine performance, combustion stability, and emission. Energy Conversion and Management: X, 2022, 15, 100269.	1.6	7
508	Electrified ammonia production as a commodity and energy storage medium to connect the food, energy, and trade sectors. IScience, 2022, 25, 104724.	4.1	13
509	Ammonia production from nitrogen-rich biomass gasification: Nitrogen transformation from model amino acids. Fuel, 2022, 326, 125071.	6.4	12
510	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. Fuel, 2022, 326, 125096.	6.4	22
511	Mixed matrix membranes containing Cu-based metal organic framework and functionalized ionic liquid for efficient NH3 separation. Journal of Membrane Science, 2022, 659, 120780.	8.2	8
512	Investigation of the stability, radiation, and structure of laminar coflow diffusion flames of CH4/NH3 mixtures. Combustion and Flame, 2022, 244, 112282.	5.2	5
513	Hydrogen production from ammonia-rich combustion for fuel reforming under high temperature and high pressure conditions. Fuel, 2022, 327, 124830.	6.4	10
514	Conversion of NH3 and NH3-NO mixtures in a CO2 atmosphere. A parametric study. Fuel, 2022, 327, 125133.	6.4	13

#	Article	IF	CITATIONS
515	Heterogeneous chemical reactions—A cornerstone in emission reduction of local pollutants and greenhouse gases. Proceedings of the Combustion Institute, 2023, 39, 3183-3215.	3.9	12
516	Novel approach to ammonia recovery from anaerobic digestion via side-stream stripping at multiple pH levels. Bioresource Technology, 2022, 361, 127685.	9.6	3
517	Oscillator strengths and cross sections of high Rydberg states in ammonia studied by fast electron scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	0
518	Inner Flame Front Structures and Burning Velocities of Premixed Turbulent Planar Ammonia/Air and Methane/Air Flames. Flow, Turbulence and Combustion, 2022, 109, 477-513.	2.6	6
519	Theoretical study of <i>e</i> [±] -NH ₃ scattering. Molecular Physics, 2022, 120, .	1.7	5
520	UV-visible chemiluminescence signature of laminar ammonia-hydrogen-air flames. Proceedings of the Combustion Institute, 2023, 39, 4227-4235.	3.9	8
521	Zn Single Atom on N-Doped Carbon: Highly Active and Selective Catalyst for Electrochemical Reduction of Nitrate to Ammonia. SSRN Electronic Journal, 0, , .	0.4	0
522	Prospects for Using Hydrogen in Various Branches of the World Economy as One of the Directions of Its Decarbonization. Russian Journal of Applied Chemistry, 2022, 95, 309-340.	0.5	0
523	Green ammonia production for green deal of Ukraine. The Problems of General Energy, 2022, 2022, 127-138.	1.0	1
524	Plasma synthesis of ammonia by asymmetric electrode arrangement. Materials and Manufacturing Processes, 2023, 38, 159-169.	4.7	1
525	Spatially and temporally resolved laser/optical diagnostics of combustion processes: From fundamentals to practical applications. Proceedings of the Combustion Institute, 2023, 39, 1185-1228.	3.9	12
526	Ammonia as Green Fuel in Internal Combustion Engines: State-of-the-Art and Future Perspectives. Frontiers in Mechanical Engineering, 0, 8, .	1.8	23
527	Balanced nitrogen and hydrogen chemisorption by [RuH6] catalytic center favors low-temperature NH3 synthesis. Cell Reports Physical Science, 2022, 3, 100970.	5.6	5
528	Computational investigation of ammonia-hydrogen peroxide blends in HCCI engine mode. International Journal of Engine Research, 2023, 24, 2279-2294.	2.3	2
529	Energy Storage Solutions for Offshore Applications. Energies, 2022, 15, 6153.	3.1	10
530	Hydrogen production via ammonia decomposition catalyzed by Ni/M–Mo–N (MÂ=ÂNi, Co) bimetallic nitrides. International Journal of Hydrogen Energy, 2022, 47, 32893-32902.	7.1	4
531	Combustion of lean ammonia-hydrogen fuel blends in a porous media burner. Proceedings of the Combustion Institute, 2023, 39, 4195-4204.	3.9	9
532	A Flexible and Attachable Colorimetric Film Sensor for the Detection of Gaseous Ammonia. Biosensors, 2022, 12, 664.	4.7	7

#	Article	IF	CITATIONS
533	High-Efficiency Ammonia Electrosynthesis on Anatase TiO _{2–<i>x</i>} Nanobelt Arrays with Oxygen Vacancies by Selective Reduction of Nitrite. Inorganic Chemistry, 2022, 61, 12895-12902.	4.0	11
534	altimg="si3.svg"> <mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:mrow </mml:msub> /NO <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:mrow </mml:msub>/O<mml:math< td=""><td>5.2</td><td>23</td></mml:math<></mml:math 	5.2	23
535	Probing into Volatile Combustion Flame and Particulate Formation Behavior During the Coal and Ammonia Co-firing Process. Energy & amp; Fuels, 2022, 36, 9347-9356.	5.1	14
536	Power-to-X: A review and perspective. Computers and Chemical Engineering, 2022, 165, 107948.	3.8	34
537	Experimental and kinetic studies of extinction limits of counterflow cool and hot diffusion flames of ammonia/n-dodecane. Combustion and Flame, 2022, 245, 112316.	5.2	11
538	Experimental study and kinetic analysis of the impact of ammonia co-firing ratio on products formation characteristics in ammonia/coal co-firing process. Fuel, 2022, 329, 125496.	6.4	28
539	Tailoring reduced mechanisms for predicting flame propagation and ignition characteristics in ammonia and ammonia/hydrogen mixtures. Energy, 2022, 260, 125090.	8.8	42
540	Techno-Economic Analysis of Hydrogen Storage Technologies for Railway Engineering: A Review. Energies, 2022, 15, 6467.	3.1	16
541	Effect of Platinum Precursor on the Properties of Pt/N-Graphene Catalysts in Formic Acid Decomposition. Catalysts, 2022, 12, 1022.	3.5	6
542	Investigation on Spectral Characteristics of Gliding Arc Plasma Assisted Ammonia Lean Combustion. Processes, 2022, 10, 1750.	2.8	6
543	Integrated thermal reforming and electro-oxidation in ammonia-fueled tubular solid oxide fuel cells toward autothermal operation. Journal of Power Sources, 2022, 548, 231999.	7.8	8
544	Ammonia recovery from anaerobic digestate: State of the art, challenges and prospects. Bioresource Technology, 2022, 363, 127957.	9.6	21
545	Ammonia as an alternative fuel for vehicular applications: Paving the way for adsorbed ammonia and direct ammonia fuel cells. Journal of Cleaner Production, 2022, 376, 133960.	9.3	25
546	Ammonia as a potential marine fuel: A review. Energy Strategy Reviews, 2022, 44, 100926.	7.3	41
547	Combining silica to boost the ammonia synthesis activity of ceria-supported Ru catalyst. Chemical Engineering Science, 2022, 262, 118045.	3.8	8
548	Recent progress in Pt-based electrocatalysts for ammonia oxidation reaction. Applied Materials Today, 2022, 29, 101640.	4.3	11
549	Understanding of combustion characteristics and NO generation process with pure ammonia in the pre-chamber jet-induced ignition system. Fuel, 2023, 331, 125743.	6.4	29
550	Effects of ammonia addition on soot formation in ethylene laminar diffusion flames. Part 3. The morphology and nanostructure of soot particles. Fuel, 2023, 332, 126082.	6.4	17

	CITATION	Report	
#	Article	IF	Citations
551	Experimental and numerical study on laminar burning velocity and premixed combustion characteristics of NH3/C3H8/air mixtures. Fuel, 2023, 331, 125936.	6.4	14
552	A skeletal chemical kinetic mechanism for ammonia/n-heptane combustion. Fuel, 2023, 331, 125830.	6.4	34
553	Impact of ammonia addition on knock resistance and combustion performance in a gasoline engine with high compression ratio. Energy, 2023, 262, 125458.	8.8	27
554	Fuel-lean ammonia/biogas combustion characteristics under the reacting swirl flow conditions. Fuel, 2023, 331, 125983.	6.4	8
555	Renewable Ammonia Production. , 2022, , .		0
556	Bond activation and formation on inorganic surfaces. , 2022, , .		Ο
557	Study on Injection Strategy of Ammonia/Hydrogen Dual Fuel Engine Under Different Compression Ratios. SSRN Electronic Journal, 0, , .	0.4	0
558	Alternative and renewable gaseous fuels to improve vehicle environmental performance. , 2022, , 93-121.		0
559	Technical and Eco-Environmental Analysis of Blue/Green Ammonia with Emphasis on Ro/Ro Ships. SSRN Electronic Journal, 0, , .	0.4	0
560	Sustainable fuels for shipping. , 2022, , 403-428.		1
561	Zn single atom on N-doped carbon: Highly active and selective catalyst for electrochemical reduction of nitrate to ammonia. Chemical Engineering Journal, 2023, 452, 139533.	12.7	18
562	Energy storage technologies. , 2023, , 1-21.		1
563	Performance characteristics of a two-stroke low speed engine applying ammonia/diesel dual direct injection strategy. Fuel, 2023, 332, 126086.	6.4	42
564	A Review of Safety Issues and Risk Assessment of Industrial Ammonia Refrigeration System. Journal of Chemical Health and Safety, 2022, 29, 394-404.	2.1	11
565	Limitations of Electrochemical Nitrogen Oxidation toward Nitrate. Journal of Physical Chemistry Letters, 2022, 13, 8928-8934.	4.6	13
566	Large eddy simulation investigation of pressure and wall heat loss effects on rich ammonia-hydrogen-air combustion in a gas turbine burner. International Journal of Hydrogen Energy, 2022, 47, 36342-36353.	7.1	4
567	Visible chemiluminescence of ammonia premixed flames and its application for flame diagnostics. Proceedings of the Combustion Institute, 2023, 39, 4327-4334.	3.9	3
568	Numerical Investigation of Rich-Lean Staging in a SGT-750 Scaled Dry Low Emission Burner With Partially Decomposed Ammonia. Journal of Engineering for Gas Turbines and Power, 2023, 145, .	1.1	2

#	Article	IF	CITATIONS
569	Fluorescence-free quantitative measurements of nitric oxide and major species in an ammonia/air flame with Raman spectroscopy. Proceedings of the Combustion Institute, 2023, 39, 1317-1324.	3.9	1
570	Defective g-C3N4 supported Ru3 single-cluster catalyst for ammonia synthesis through parallel reaction pathways. Nano Research, 2023, 16, 3580-3587.	10.4	8
571	Re-evaluation of rate constants for the reaction N2H4 (+ M) ⇄ NH2Â+ÂNH2 (+ M). Combustion and Flame, 2023, 257, 112374.	5.2	4
572	Techno-economic Study of an Electrolysis-Based Green Ammonia Production Plant. Industrial & Engineering Chemistry Research, 2022, 61, 14515-14530.	3.7	7
573	A strategy for ammonia odor monitoring, prediction, and reduction from livestock manure wastes in Korea: a short review. Geosystem Engineering, 2022, 25, 35-43.	1.4	1
574	Experimental investigation on reactivity-controlled compression ignition (RCCI) combustion characteristic of n-heptane/ammonia based on an optical engine. International Journal of Engine Research, 2023, 24, 2478-2488.	2.3	12
575	A bifunctional electrochemical flow cell integrating ammonia production and electricity generation for renewable energy conversion and storage. International Journal of Hydrogen Energy, 2022, 47, 38361-38371.	7.1	6
576	Study of mechanism of ammonia decomposition and oxidation: From NOx reduction to ammonia auto-ignition problem. Proceedings of the Combustion Institute, 2022, , .	3.9	3
577	Lewis number effects on laminar and turbulent expanding flames of NH3/H2/air mixtures at elevated pressures. Proceedings of the Combustion Institute, 2023, 39, 1689-1697.	3.9	7
578	Numerical analysis on influence of hydrogen peroxide (H2O2) addition on the combustion and emissions characteristics of NH3/CH4-air (O2/N2)/ H2O2 mixture. International Journal of Hydrogen Energy, 2022, 47, 37052-37071.	7.1	8
579	Experimental investigation of NOx emission and ash-related issues in ammonia/coal/biomass co-combustion in a 25-kW down-fired furnace. Proceedings of the Combustion Institute, 2023, 39, 3467-3477.	3.9	15
580	Experimental characterization of spark ignited ammonia combustion under elevated oxygen concentrations. Proceedings of the Combustion Institute, 2023, 39, 4319-4326.	3.9	4
581	Optimizing Reaction-Absorption Process for Lower Pressure Ammonia Production. ACS Sustainable Chemistry and Engineering, 2022, 10, 12319-12328.	6.7	7
582	Electrochemical Generation of Catalytically Active Edge Sites in C ₂ Nâ€₹ype Carbon Materials for Artificial Nitrogen Fixation. Small, 2022, 18, .	10.0	8
583	Experimental and kinetic modeling study on auto-ignition properties of ammonia/ethanol blends at intermediate temperatures and high pressures. Proceedings of the Combustion Institute, 2023, 39, 511-519.	3.9	13
584	Direct numerical simulations of auto-igniting mixing layers in ammonia and ammonia-hydrogen combustion under engine-relevant conditions. International Journal of Hydrogen Energy, 2022, 47, 38055-38074.	7.1	9
585	Effects of residence time on the NOx emissions of premixed ammonia-methane-air swirling flames at elevated pressure. Proceedings of the Combustion Institute, 2023, 39, 4277-4288.	3.9	13
586	An experimental and detailed kinetic modeling study of the auto-ignition of NH3/diesel mixtures: Part 1- NH3 substitution ratio from 20% to 90%. Combustion and Flame, 2023, 251, 112391.	5.2	12

# 587	ARTICLE Prospects of low and zero-carbon renewable fuels in 1.5-degree net zero emission actualisation by 2050: A critical review. Carbon Capture Science & Technology, 2022, 5, 100072.	IF 10.4	Citations 45
588	Activating nano-bulk interplays for sustainable ammonia electrosynthesis. Materials Today, 2022, 60, 31-40.	14.2	8
589	Recent advances in ammonia synthesis technologies: Toward future zero carbon emissions. International Journal of Hydrogen Energy, 2023, 48, 11237-11273.	7.1	36
590	Challenges for Applications of the Electrochemical Promotion of Catalysis. Modern Aspects of Electrochemistry, 2023, , 335-377.	0.2	0
591	Optimal hydrogen carrier: Holistic evaluation of hydrogen storage and transportation concepts for power generation, aviation, and transportation. Journal of Energy Storage, 2022, 55, 105714.	8.1	41
592	Investigation on the NO formation of ammonia oxidation in a shock tube applying tunable diode laser absorption spectroscopy. Combustion and Flame, 2022, 246, 112389.	5.2	17
593	Dual-fuel, dual-swirl burner for the mitigation of thermoacoustic instabilities in turbulent ammonia-hydrogen flames. Combustion and Flame, 2022, 246, 112392.	5.2	11
594	Chemiluminescent footprint of premixed ammonia-methane-air swirling flames. Proceedings of the Combustion Institute, 2023, 39, 1415-1423.	3.9	8
595	Performance Characteristics of a Direct Ammonia Fuel Cell with an Anion Exchange Membrane. Energy & Fuels, 2022, 36, 13203-13211.	5.1	11
596	A theoretical kinetic study of the reactions of NH ₂ radicals with methanol and ethanol and their implications in kinetic modeling. International Journal of Chemical Kinetics, 2023, 55, 3-14.	1.6	6
597	Catalytic Ammonia Oxidation to Dinitrogen by a Nickel Complex. Angewandte Chemie - International Edition, 2023, 62, .	13.8	6
598	Effect of the Active Metal on the NOx Formation during Catalytic Combustion of Ammonia SOFC Off-Gas. Catalysts, 2022, 12, 1186.	3.5	2
599	Feasibility study of hydrogen jet flame ignition of ammonia fuel in marine low speed engine. International Journal of Hydrogen Energy, 2023, 48, 327-336.	7.1	64
600	Industrial status, technological progress, challenges, and prospects of hydrogen energy. Natural Gas Industry B, 2022, 9, 427-447.	3.4	28
601	Auto-Ignition Delay Characteristics of Ammonia Substitution on Methane. Processes, 2022, 10, 2214.	2.8	2
602	Strategy to reduce carbon emissions by adopting ammonia–Algal biodiesel in RCCI engine and optimize the fuel concoction using RSM methodology. International Journal of Hydrogen Energy, 2022, 47, 39701-39718.	7.1	12
603	Oxidation study of n-propylamine with SVUV-photoionization molecular-beam mass spectrometry. Proceedings of the Combustion Institute, 2023, 39, 295-303.	3.9	3
604	A shock-tube study of NH3 and NH3/H2 oxidation using laser absorption of NH3 and H2O. Proceedings of the Combustion Institute, 2023, 39, 233-241.	3.9	9

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#	ARTICLE Effects of molecular diffusion modeling on turbulent premixed NH <mml:math ymlos:mml="http://www.w3.org/1998/Math/MathMl" altimg="ci42.svg"><mml:msub><mml:mrow< th=""><th>IF</th><th>CITATIONS</th></mml:mrow<></mml:msub></mml:math 	IF	CITATIONS
605	<pre>xmmis.mmi= http://www.w3.org/1996/Math/MathML altimg= si42.svg ><mmi.msub><mmi.mow></mmi.mow><mmi:mn>3<mmi.msub><mmi:mrow></mmi:mrow><mmi:mn>2/air flames. Proceedings of the Combustion Institute, 2023_39_2256.8</mmi:mn></mmi.msub></mmi:mn></mmi.msub></pre>	3.9	5
606	Catalytic Ammonia Oxidation to Dinitrogen by a Nickel Complex. Angewandte Chemie, 2023, 135, .	2.0	1
607	Fundamental Studies of Smart Distributed Energy Resources along with Energy Blockchain. Energies, 2022, 15, 8067.	3.1	2
608	Characteristics of NH3/H2 blend as carbon-free fuels: A review. International Journal of Hydrogen Energy, 2023, 48, 38077-38100.	7.1	16
609	Exploration of environmentally friendly marine power technology -ammonia/diesel stratified injection. Journal of Cleaner Production, 2022, 380, 135014.	9.3	53
610	The future of hydrogen: Challenges on production, storage and applications. Energy Conversion and Management, 2022, 272, 116326.	9.2	150
611	Ammonia's Role in the Hydrogen Society. , 2023, , 49-61.		0
612	Metal-decorated siligene as work function type sensor for NH3 detection: A DFT approach. Applied Surface Science, 2023, 610, 155541.	6.1	8
613	An experimental and kinetic modeling study of ammonia/n-heptane blends. Combustion and Flame, 2022, 246, 112428.	5.2	34
614	Diffusive effects of hydrogen on pressurized lean turbulent hydrogen-air premixed flames. Combustion and Flame, 2022, 246, 112423.	5.2	11
615	Spatially resolved broadband absorption spectroscopy measurements of temperature and multiple species (NH, OH, NO, and NH <mml:math)="" 0="" etqq0="" rgb<="" td="" tj="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>T /Overloo 6.4</td><td>ck 10 Tf 50 3 6</td></mml:math>	T /Overloo 6.4	ck 10 Tf 50 3 6
616	premixed ammonia/methane/air flames. Fuel, 2023, 332, 126073. Mid-infrared fiber-coupled laser absorption sensor for simultaneous NH3 and NO monitoring in flue gases. Sensors and Actuators B: Chemical, 2023, 374, 132805.	7.8	15
617	Investigation on the potential of using carbon-free ammonia in large two-stroke marine engines by dual-fuel combustion strategy. Energy, 2023, 263, 125748.	8.8	31
618	Experimental and kinetic study on laminar burning velocities of NH3/CH4/H2S/air flames. Fuel, 2023, 332, 126174.	6.4	7
619	Experimental and chemical kinetic study on the flame propagation characteristics of ammonia/hydrogen/air mixtures. Fuel, 2023, 334, 126509.	6.4	9
620	NH3 oxidation by NO2 in a jet-stirred reactor: The effect of significant uncertainties in H2NO kinetics. Applications in Energy and Combustion Science, 2022, 12, 100095.	1.5	0
621	Evaporation and clustering of ammonia droplets in a hot environment. Physical Review Fluids, 2022, 7,	2.5	8
622	Quantitative laser-induced fluorescence of NO in ammonia-hydrogen-nitrogen turbulent jet flames at elevated pressure. Proceedings of the Combustion Institute, 2023, 39, 1465-1474.	3.9	10

#	Article	IF	CITATIONS
623	Assessment of the Operation of an SI Engine Fueled with Ammonia. Energies, 2022, 15, 8583.	3.1	7
624	An experimental and modeling study on auto-ignition of ammonia in an RCM with N2O and H2 addition. Proceedings of the Combustion Institute, 2023, 39, 4377-4385.	3.9	10
625	An experimental and modeling study on the oxidation of ammonia and n-heptane with JSR. Proceedings of the Combustion Institute, 2023, 39, 477-485.	3.9	10
626	Counterflow flame extinction of ammonia and its blends with hydrogen and C1-C3 hydrocarbons. Applications in Energy and Combustion Science, 2022, 12, 100099.	1.5	3
627	Shock tube study of the interaction between ammonia and nitric oxide at high temperatures using laser absorption spectroscopy. Proceedings of the Combustion Institute, 2023, 39, 4365-4375.	3.9	4
628	A comparison between turbulent non-premixed jet flames of CH4 and the 50%NH3+50%H2 blend. Combustion and Flame, 2022, 246, 112477.	5.2	3
629	Hidden Markov Model as the Predictive Time Series Movement of Natural Gas Price. , 2022, , .		0
630	Study on injection strategy of ammonia/hydrogen dual fuel engine under different compression ratios. Fuel, 2023, 334, 126666.	6.4	24
631	Experimental and kinetic study on the extinction characteristics of ammonia-dimethyl ether diffusion flame. Fuel, 2023, 334, 126743.	6.4	4
632	Plasma-assisted ammonia synthesis over Ni/LaOF: Dual active centers consisting of oxygen vacancies and Ni. Applied Catalysis A: General, 2023, 650, 118983.	4.3	9
633	Technical and eco-environmental analysis of blue/green ammonia-fueled RO/RO ships. Transportation Research, Part D: Transport and Environment, 2023, 114, 103547.	6.8	17
634	Evaluation of effects of ammonia co-firing on the thermal performances of supercritical pulverized coal and circulating fluidized bed boilers. Energy Conversion and Management, 2023, 276, 116528.	9.2	15
635	Enhanced combustion of ammonia engine based on novel air-assisted pre-chamber turbulent jet ignition. Energy Conversion and Management, 2023, 276, 116526.	9.2	39
636	An experimental and kinetic modeling study on the low and intermediate temperatures oxidation of NH3/O2/Ar, NH3/H2/O2/Ar, NH3/CO/O2/Ar, and NH3/CH4/O2/Ar mixtures in a jet-stirred reactor. Combustion and Flame, 2023, 248, 112529.	5.2	3
637	Direct ammonia protonic ceramic fuel cell: A modelling study based on elementary reaction kinetics. Journal of Power Sources, 2023, 556, 232505.	7.8	5
638	FSP synthesized core-shell CuOx@SiO2 catalyst with excellent thermal stability for catalytic combustion of ammonia. Fuel, 2023, 334, 126824.	6.4	12
639	Pilot diesel-ignited ammonia dual fuel low-speed marine engines: A comparative analysis of ammonia premixed and high-pressure spray combustion modes with CFD simulation. Renewable and Sustainable Energy Reviews, 2023, 173, 113108.	16.4	41
640	An experimental and kinetic modeling study on NH3/air, NH3/H2/air, NH3/CO/air, and NH3/CH4/air premixed laminar flames at elevated temperature. Combustion and Flame, 2023, 248, 112536.	5.2	22

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#	Article	IF	CITATIONS
641	Experimental investigation on the performance of pure ammonia engine based on reactivity controlled turbulent jet ignition. Fuel, 2023, 335, 127116.	6.4	28
642	Minimum ignition energy of hydrogen–ammonia blends in air. Fuel, 2023, 337, 127128.	6.4	7
643	Deniz Taşımacılığında Dekarbonizasyon Uygulamalarının Kaynak Temelli Görüş Bağlamın Yakıtlar Açısından Değerlendirilmesi. , 0, , .	da Alterna	tif _O
644	Using Ammonia as Future Energy: Modelling of Reaction Mechanism for Ammonia/Hydrogen Blends. Journal of Physics: Conference Series, 2022, 2361, 012012.	0.4	1
645	Pollutant Emissions of Alternative Fuels. , 2022, , 451-484.		0
646	Influence mechanism of ammonia mixing on NO formation characteristics of pulverized coal combustion and N oxidation in ammonia-N/coal-N. Fuel, 2023, 336, 126813.	6.4	15
647	Ammonia. , 2022, , 245-274.		1
648	Analysis of low emission characteristics of NH3/H2/air mixtures under low temperature combustion conditions. Fuel, 2023, 337, 126879.	6.4	2
649	Assessing the effects of ammonia (NH3) as the secondary fuel on the combustion and emission characteristics with nano-additives. Fuel, 2023, 336, 126831.	6.4	11
650	Three-dimensional simulation of a rotating detonation engine in ammonia/hydrogen mixtures and oxygen-enriched air. International Journal of Hydrogen Energy, 2023, 48, 4891-4905.	7.1	9
651	CO assisted NH <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si1.svg"><mml:msub><mml:mrow></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> oxidation. Combustion and Flame, 2023, 257, 112438.	5.2	8
652	Ammonia Recovery from Organic Waste Digestate via Gas–Liquid Stripping: Application of the Factorial Design of Experiments and Comparison of the Influence of the Stripping Gas. Sustainability, 2022, 14, 17000.	3.2	1
653	Unraveling the NO reduction mechanisms occurring during the combustion of NH3/CH4 mixtures. Combustion and Flame, 2023, 257, 112531.	5.2	5
654	Dynamic Process Modeling of Topside Systems for Evaluating Power Consumption and Possibilities of Using Wind Power. Energies, 2022, 15, 9482.	3.1	1
655	Color-Coded Hydrogen: Production and Storage in Maritime Sector. Journal of Marine Science and Engineering, 2022, 10, 1995.	2.6	11
656	Design of ammonia oxidation electrocatalysts for efficient direct ammonia fuel cells. EnergyChem, 2023, 5, 100093.	19.1	6
657	Hydrogen storage in liquid hydrogen carriers: recent activities and new trends. Progress in Energy, 2023, 5, 012004.	10.9	9
658	Experimental and numerical study of product gas and N2O emission characteristics of ammonia/hydrogen/air premixed laminar flames stabilized in a stagnation flow. Proceedings of the Combustion Institute, 2023, 39, 1625-1633.	3.9	11

#	Article	IF	CITATIONS
659	Recent Advances in NH ₃ Synthesis with Chemical Looping Technology. Industrial & Engineering Chemistry Research, 2022, 61, 18215-18231.	3.7	6
660	Thermocatalytic Ammonia Decomposition – Status and Current Research Demands for a Carbonâ€Free Hydrogen Fuel Technology. ChemCatChem, 2023, 15, .	3.7	4
661	Feasibility Analysis of Coupling Hydrogen-Derived Fuel on a Coal-Fired Boiler for Power Generation. Energy & Fuels, 2023, 37, 477-491.	5.1	2
662	Combinatorial Screening of Bimetallic Electrocatalysts for Nitrogen Reduction to Ammonia Using a High-Throughput Gas Diffusion Electrode Cell Design. Journal of the Electrochemical Society, 2022, 169, 124506.	2.9	2
663	Ammonia as a fuel for internal combustion engines: latest advances and future challenges. Journal of Physics: Conference Series, 2022, 2385, 012036.	0.4	1
664	Experimental and modeling study on the ignition delay times of ammonia/methane mixtures at high dilution and high temperatures. Proceedings of the Combustion Institute, 2023, 39, 4399-4407.	3.9	9
665	The use of alternative fuels for maritime decarbonization: Special marine environmental risks and solutions from an international law perspective. Frontiers in Marine Science, 0, 9, .	2.5	14
666	Thermodynamic and kinetic considerations of nitrogen carriers for chemical looping ammonia synthesis. Discover Chemical Engineering, 2023, 3, .	2.2	5
667	Uncertainty quantification of the premixed combustion characteristics of NH3/H2/N2 fuel blends. International Journal of Hydrogen Energy, 2023, 48, 14477-14491.	7.1	7
668	Ammonia Production Using Bacteria and Yeast toward a Sustainable Society. Bioengineering, 2023, 10, 82.	3.5	7
669	Low carbon power generation for offshore oil and gas production. Energy Conversion and Management: X, 2023, 17, 100347.	1.6	1
670	Reactivity controlled turbulent jet ignition (RCTJI) for ammonia engine. International Journal of Hydrogen Energy, 2023, 48, 12519-12522.	7.1	9
671	Protonic Ceramic Electrochemical Cells for Synthesizing Sustainable Chemicals and Fuels. Advanced Science, 2023, 10, .	11.2	25
672	Overview of fundamental kinetic mechanisms and emission mitigation in ammonia combustion. Chemical Engineering Journal, 2023, 458, 141391.	12.7	61
673	Evaluating the sustainability of the hydrogen economy using multi-criteria decision-making analysis in Korea. Renewable Energy, 2023, 204, 485-492.	8.9	12
674	Investigation on lean blow-off characteristics and stabilization mechanism of premixed hydrogen enhanced ammonia/air swirl flames in a gas turbine combustor. Combustion and Flame, 2023, 249, 112600.	5.2	13
675	Development of a reduced chemical mechanism for ammonia/n-heptane blends. Fuel, 2023, 338, 127358.	6.4	18
676	Numerical investigation and Pareto optimization on performance, emission and in-cylinder reforming characteristics for two cylinder reciprocating engine with COx free fuel. International Journal of	7.1	2

#	Article	IF	CITATIONS
677	The Use of Redox Mediators in Electrocatalysis and Electrosynthesis. Chemistry - an Asian Journal, 2023, 18, .	3.3	4
678	Experimental and numerical study on laminar premixed NH3/H2/O2/air flames. International Journal of Hydrogen Energy, 2023, 48, 14885-14895.	7.1	6
679	lgnition enhancement of NH ₃ /air mixtures by non-equilibrium excitation in a nanosecond pulsed plasma discharge. , 2023, , .		1
680	Manganese-based catalysts supported on carbon xerogels for the selective catalytic reduction of NOx using a hollow fibre-based reactor. Catalysis Today, 2023, 423, 114019.	4.4	1
681	Metal–Organic Framework Materials for Production and Distribution of Ammonia. Journal of the American Chemical Society, 2023, 145, 1998-2012.	13.7	12
682	Combustion characteristics of steam-diluted decomposed ammonia in multiple-nozzle direct injection burner. International Journal of Hydrogen Energy, 2023, 48, 16083-16099.	7.1	1
683	Large eddy simulations of NH ₃ -H ₂ jet flame at elevated pressure using PCA with inclusion of NH ₃ /H ₂ ratio variation. , 2023, , .		0
684	Flame–Solid Interaction: Thermomechanical Analysis for a Steady Laminar Stagnation Flow Stoichiometric NH ₃ –H ₂ Flame at a Plane Wall. Energy & Fuels, 2023, 37, 3294-3306.	5.1	3
685	From Coal to Climate Change: An Australian Perspective on the Energy Transition. , 2023, , 245-269.		0
686	Transfer Functions of Ammonia and Partly Cracked Ammonia Swirl Flames. Energies, 2023, 16, 1323.	3.1	1
687	Kinetic Study for Plasma Assisted Cracking of NH ₃ : Approaches and Challenges. Journal of Physical Chemistry A, 2023, 127, 1271-1282.	2.5	13
688	Premixed combustion and emission characteristics of methane diluted with ammonia under F-class gas turbine relevant operating condition. Frontiers in Energy Research, 0, 11, .	2.3	1
689	Thermodynamic analysis of nitric oxide in an optically accessible, temperature-controlled gas cell via laser absorption spectroscopy. , 2023, , .		1
690	Design improvements for ammonia-fed SOFC systems through power rating, cascade design and fuel recirculation. International Journal of Hydrogen Energy, 2023, 48, 15269-15279.	7.1	9
691	A DNS study of heat release rate surrogates with unity and non-unity exponents for ammonia/air premixed flames. International Journal of Hydrogen Energy, 2023, 48, 16470-16480.	7.1	2
692	Enhancing ammonia combustion using reactivity stratification with hydrogen addition. Proceedings of the Combustion Institute, 2023, 39, 4419-4426.	3.9	3
693	Enhancing efficiency of a renewable energy assisted system with adiabatic compressed-air energy storage by application of multiple Kalina recovery cycles. Journal of Energy Storage, 2023, 61, 106712.	8.1	9
694	Developing a microwave-driven reactor for ammonia synthesis: insights into the unique challenges of microwave catalysis. Catalysis Science and Technology, 0, , .	4.1	0

#	Article	IF	CITATIONS
695	Contribution of Sustainable Fuels for the Future of the Energy Sector. Impact of Meat Consumption on Health and Environmental Sustainability, 2023, , 17-40.	0.4	0
696	Numerical study on non-premixed combustion characteristics of NH3/O2 in multi-inlet micro combustor. Applied Thermal Engineering, 2023, 224, 120091.	6.0	9
697	Power-to-X processes based on PEM water electrolyzers: A review of process integration and flexible operation. Computers and Chemical Engineering, 2023, 175, 108260.	3.8	13
698	Computational Investigation of Combustion Phasing and Emission of Ammonia and Hydrogen Blends under HCCI Conditions. , 0, , .		1
699	A comparative study of oxidation of pure ammonia and ammonia/dimethyl ether mixtures in a jet-stirred reactor using SVUV-PIMS. Combustion and Flame, 2023, 250, 112643.	5.2	8
700	Solid oxide fuel cells for shipping: A machine learning model for early detection of hazardous system deviations. Chemical Engineering Research and Design, 2023, 172, 184-194.	5.6	14
701	Detonation in ammonia-oxygen and ammonia-nitrous oxide mixtures. Combustion and Flame, 2023, 251, 112680.	5.2	8
702	High temperature ignition of ammonia/di-isopropyl ketone: A detailed kinetic model and a shock tube experiment. Combustion and Flame, 2023, 251, 112692.	5.2	1
703	Plasmonic silver nanoparticle-deposited n-Bi2S3/p-MnOS diode-type catalyst for enhanced photocatalytic nitrogen fixation: Introducing the defective p-MnOS. Chemical Engineering Journal, 2023, 464, 142717.	12.7	5
704	Hydrogen production from water industries for a circular economy. Desalination, 2023, 554, 116448.	8.2	19
705	Mechanism analysis of fuel-N oxidation during ammonia-coal co-combustion: Influence of H2O. Fuel, 2023, 342, 127747.	6.4	7
706	Techno-economic assessment of long-distance supply chains of energy carriers: Comparing hydrogen and iron for carbon-free electricity generation. Applications in Energy and Combustion Science, 2023, 14, 100128.	1.5	3
707	Testing of NH3/H2 and NH3/syngas combustion mechanisms using a large amount of experimental data. Applications in Energy and Combustion Science, 2023, 14, 100127.	1.5	2
708	Effect of ammonia/hydrogen mixture ratio on engine combustion and emission performance at different inlet temperatures. Energy, 2023, 272, 127110.	8.8	17
709	Adiabatic laminar burning velocities and NO generation paths of NH3/H2 premixed flames. Journal of the Energy Institute, 2023, 108, 101225.	5.3	7
710	One-step hydrothermal synthesis of novel flower-like Bi2Mn4O10 anchored on BiOI1â^xBrx nanosheets for efficient photocatalytic nitrogen fixation. Journal of Alloys and Compounds, 2023, 947, 169589.	5.5	5
711	Development and performance evaluation of a passive direct ammonia fuel cell. Journal of Power Sources, 2023, 570, 233057.	7.8	6
712	Numerical study on the phase change and spray characteristics of liquid ammonia flash spray. Fuel, 2023, 345, 128229.	6.4	7

#	Article	IF	CITATIONS
713	Enhanced ammonia decomposition activity over unsupported Co3O4: Unravelling the promotion effect of alkali metal. Applied Catalysis B: Environmental, 2023, 330, 122644.	20.2	4
714	Mechanical engineering advantages of a dual fuel diesel engine powered by diesel and aqueous ammonia blends. Fuel, 2023, 346, 128398, investigation of spark ignition processes of laminar strained premixed stoichiometric NH <mml:math <="" altimg="sil26 syg" display="inline" symple="bittp://www.www.org/1998/Math/Math/Mit" td=""><td>6.4</td><td>8</td></mml:math>	6.4	8
715	id="d1e1215"> <mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mrow </mml:msub> -H <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si127.svg" display="inline" id="d1e1223"><mml:msub><mml:mrow></mml:mrow></mml:msub><td>3.3</td><td>5</td></mml:math 	3.3	5
716	Experimental and numerical study of curvature effects and NO formation in ammonia Bunsen flames. Fuel, 2023, 345, 128207.	6.4	2
717	Investigation of soot suppression by ammonia addition to laminar ethylene flames at varying pressure. Combustion and Flame, 2023, 251, 112728.	5.2	3
718	Highly efficient metal-free borocarbonitride catalysts for electrochemical reduction of N2 to NH3. Journal of Colloid and Interface Science, 2023, 641, 577-584.	9.4	4
719	Experimental study on the effect of hydrogen substitution rate on combustion and emission characteristics of ammonia internal combustion engine under different excess air ratio. Fuel, 2023, 343, 127992.	6.4	18
720	Experimental study of the effect of variable valve timing on hydrogen-enriched ammonia engine. Fuel, 2023, 344, 128131.	6.4	4
721	Removal and mechanism analysis of NO emissions in carbon-free ammonia combustion systems with a secondary fuel injection. Fuel, 2023, 344, 128088.	6.4	41
722	Ammonia Capture in Rhodium(II)-Based Metal–Organic Polyhedra via Synergistic Coordinative and H-Bonding Interactions. ACS Applied Materials & Interfaces, 2023, 15, 6747-6754.	8.0	4
723	Experimental study of combustion process of NH3 stratified spray using imaging methods for NH3 fueled large two-stroke marine engine. Applications in Energy and Combustion Science, 2023, 13, 100119.	1.5	2
724	Role of ammonia addition on polycyclic aromatic hydrocarbon growth: A ReaxFF molecular dynamics study. Combustion and Flame, 2023, 250, 112651.	5.2	2
725	Electrocatalytic ammonia synthesis on Fe@MXene catalyst as cathode of intermediate-temperature proton-conducting solid oxide cell. International Journal of Hydrogen Energy, 2023, 48, 17677-17688.	7.1	3
726	A Reference Equation of State with an Associating Term for the Thermodynamic Properties of Ammonia. Journal of Physical and Chemical Reference Data, 2023, 52, .	4.2	4
727	Using Kriging surrogate model to analyze hydrogen generation with dimethyl ether in partial oxidation catalytic fluidized bed reactor. International Journal of Hydrogen Energy, 2024, 54, 467-482.	7.1	2
728	CFD studies on thermoacoustic instabilities. , 2023, , 585-672.		0
729	Hole scavenger-free nitrogen photofixation in pure water with non-metal B-doped carbon nitride: Implicative importance of B species for N2 activation. Journal of Environmental Chemical Engineering, 2023, 11, 109511.	6.7	7
730	Nitromethane as a nitric oxide precursor for studying high-temperature interactions between ammonia and nitric oxide in a shock tube. Combustion and Flame, 2023, 250, 112644.	5.2	5

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#	Article	IF	CITATIONS
731	Catalytic removal of nitrogen oxides (NO, NO2, N2O) from ammonia-fueled combustion exhaust: A review of applicable technologies. Chemical Engineering Journal, 2023, 461, 141958.	12.7	16
732	Cu ₂ O–Cu@Titanium Surface with Synergistic Performance for Nitrate-to-Ammonia Electrochemical Reduction. ACS Sustainable Chemistry and Engineering, 2023, 11, 3633-3643.	6.7	9
733	Dynamic Parameter Simulations for a Novel Small-Scale Power-to-Ammonia Concept. Processes, 2023, 11, 680.	2.8	4
734	Towards responsive gas-solid operations: Oscillating and vortex flows. Chemical Engineering and Processing: Process Intensification, 2023, 186, 109324.	3.6	1
735	A Numerical Investigation on Effects of Hydrogen Enrichment and Turbulence on NO Formation Pathways in Premixed Ammonia/Air Flames. Combustion Science and Technology, 0, , 1-30.	2.3	1
736	Enhanced Nitrogen Reduction to Ammonia by Surface- and Defect-Engineered Co-catalyst-Modified Perovskite Catalysts under Ambient Conditions and Their Charge Carrier Dynamics. ACS Applied Materials & Interfaces, 2023, 15, 13052-13063.	8.0	5
737	Operational and economic evaluation of ammonia bunkering – Bunkering supply chain perspective. Transportation Research, Part D: Transport and Environment, 2023, 117, 103666.	6.8	9
738	Ammonia as an alternative. , 2023, , 179-208.		0
739	Structure sensitivity of alumina- and zeolite-supported platinum ammonia slip catalysts. Catalysis Science and Technology, 2023, 13, 2946-2965.	4.1	3
740	Interactions in Ammonia and Hydrogen Oxidation Examined in a Flow Reactor and a Shock Tube. Journal of Physical Chemistry A, 2023, 127, 2351-2366.	2.5	6
741	Development of a reduced chemical kinetic mechanism for ammonia combustion using species-based global sensitivity analysis. Fuel, 2023, 344, 128036.	6.4	1
742	Numerical Modeling and Simulation of a Spark-Ignition Engine Fueled with Ammonia-Hydrogen Blends. Energies, 2023, 16, 2543.	3.1	2
743	A roadmap to ammonia economy: The case of Qatar. Energy Sources, Part B: Economics, Planning and Policy, 2023, 18, .	3.4	0
744	Decarbonization of mobility, including transportation and renewable fuels. Proceedings of the Combustion Institute, 2023, 39, 1-9.	3.9	2
745	Probing High-Temperature Amine Chemistry: Is the Reaction NH ₃ + NH ₂ â‡,, N ₂ H ₃ + H ₂ Important?. Journal of Physical Chemistry A, 2023, 127, 2601-2607.	2.5	6
746	Numerical Study on the NH3/CH4 Symmetric Premixed Counterflow Flames : PartâCharacteristics of Extinction Behavior. Transactions of the Korean Hydrogen and New Energy Society, 2023, 34, 47-58.	0.6	1
747	Material limits: the biggest challenges hindering clean hydrogen. Fuel Cells Bulletin, 2023, 2023, .	0.1	0
748	Challenges in using perovskite-based anode materials for solid oxide fuel cells with various fuels: a review. International Journal of Hydrogen Energy, 2023, 48, 20441-20464.	7.1	15

#	ARTICLE	IF 8.1	CITATIONS
749	The impact of ammonia addition on soot formation in ethylene flames. Combustion and Flame, 2023, 258, 112724	5.2	3
751	The impact of hydrogen substitution by ammonia on low- and high-temperature combustion. Combustion and Flame, 2023, 257, 112733.	5.2	2
752	Recalibration of carbon-free NH3/H2 fuel blend process: Qatar's roadmap for blue ammonia. International Journal of Hydrogen Energy, 2023, 48, 23716-23736.	7.1	4
753	Exsolved Ru on BaCexOy Catalysts for Thermochemical Ammonia Synthesis. International Journal of Energy Research, 2023, 2023, 1-14.	4.5	1
754	Stabilization of air coflowed ammonia jet flame at elevated ambient temperatures. International Journal of Hydrogen Energy, 2023, 48, 24127-24138.	7.1	3
755	Efficient Electrocatalytic Nitrate Reduction to Ammonia Based on DNA-Templated Copper Nanoclusters. ACS Applied Materials & Interfaces, 2023, 15, 18928-18939.	8.0	10
756	Weakened d–p orbital hybridization in <i>in situ</i> reconstructed Ru/β-Co(OH) ₂ heterointerfaces for accelerated ammonia electrosynthesis from nitrates. Energy and Environmental Science, 2023, 16, 2483-2493.	30.8	25
757	An Updated Comprehensive Chemical Kinetic Mechanism for Ammonia and its Blends with Hydrogen, Methanol, and <italic>N</italic> -Heptane. , 0, , .		1
758	GDI Ammonia Spray Numerical Simulation by Means of OpenFOAM. , 0, , .		2
759	Multiple Spark Ignition Approach to Burn Ammonia in a Spark-Ignition Engine: An Optical Study. , 0, , .		7
760	Challenges and Directions of Using Ammonia as an Alternative Fuel for Internal Combustion Engines. , 0, , .		1
761	Combustion, Chemistry, and Carbon Neutrality. Chemical Reviews, 2023, 123, 5139-5219.	47.7	37
762	Effect of chemical speciation in boundary layer on performance of ammonia recovery in membrane contactor. Desalination, 2023, 558, 116618.	8.2	3
763	Catalytic production of ammonia from dinitrogen employing molybdenum complexes bearing N-heterocyclic carbene-based PCP-type pincer ligands. , 2023, 2, 635-644.		12
764	On the effects of adding syngas to an ammonia-MILD combustion regimeâ€"A computational study of the reaction zone structure. International Journal of Hydrogen Energy, 2024, 52, 226-240. DNS study on reactivity stratification with prechamber H <mm:math <="" altimg="si59 syg" display="inline" td="" xminstrum="http://www.w3.org/1998/Math/MathMI "><td>7.1</td><td>5</td></mm:math>	7.1	5
766	id="d1e1692"> <mml:msub><mml:mrow /><mml:mrow></mml:mrow></mml:mrow </mml:msub> /air turbulent jet flame to enhance NH <mml:math <br="" altimg="si58.svg" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline" id="d1e1700"><mml:msub><mml:mrow< td=""><td>6.4</td><td>2</td></mml:mrow<></mml:msub></mml:math>	6.4	2
767	Experimental study on the load control strategy of ammonia-hydrogen dual-fuel internal combustion engine for hybrid power system. Fuel, 2023, 347, 128396.	6.4	5

#	Article	IF	CITATIONS
768	Numerical study of the effect of pressure on the combustion characteristics of ammonia/coal-derived syngas mixture under gas turbine operating conditions. Fuel, 2023, 347, 128463.	6.4	7
769	The economics of global green ammonia trade – "Shipping Australian wind and sunshine to Germany― Applied Energy, 2023, 334, 120662.	10.1	26
770	Numerical Investigation of a Heavy-Duty Compression Ignition Engine Converted to Ammonia Spark-Ignition Operation. Journal of Engineering for Gas Turbines and Power, 2023, 145, .	1.1	4
771	Synergistic effects of nanosecond plasma discharge and hydrogen on ammonia combustion. Fuel, 2023, 348, 128475.	6.4	3
772	Utilization of green ammonia as a hydrogen energy carrier for decarbonization in spark ignition engines. International Journal of Hydrogen Energy, 2023, 48, 28803-28823.	7.1	32
773	Preparation of Cu atom doped LaFeO3/activated porous carbon composites and their electrocatalytic nitrogen reduction performance. International Journal of Hydrogen Energy, 2023, 48, 28668-28678.	7.1	1
774	Stability and emission characteristics of ammonia/air premixed swirling flames with rotating gliding arc discharge plasma. Energy, 2023, 277, 127649.	8.8	5
775	Ammonia thermal decomposition on quartz and stainless steel walls. International Journal of Hydrogen Energy, 2023, 48, 29209-29219.	7.1	5
776	Study of ammonia oxidation with ozone addition. Applications in Energy and Combustion Science, 2023, 14, 100137.	1.5	1
777	Effect of ammonia on the characteristics of coal combustion. Journal of the Energy Institute, 2023, 109, 101275.	5.3	5
778	Large eddy simulations of ammonia-hydrogen jet flames at elevated pressure using principal component analysis and deep neural networks. Combustion and Flame, 2023, 253, 112781.	5.2	8
779	Efficiency and optimal load capacity of E-Fuel-Based energy storage systems. Advances in Applied Energy, 2023, 10, 100140.	13.2	4
781	Ammonia as a Hydrogen Vector: Validated Large Eddy Simulation of Ammonia Co-Firing in a Pilot-Scale Coal Combustor. Springer Proceedings in Energy, 2023, , 167-179.	0.3	0
782	Characterization of soot emissions formed in a compression ignition engine cofired by ammonia and diesel. Fuel, 2023, 349, 128715.	6.4	6
783	Methanol and ammonia as emerging green fuels: Evaluation of a new power generation paradigm. Renewable and Sustainable Energy Reviews, 2023, 175, 113195.	16.4	13
784	Contemporary avenues of the Hydrogen industry: Opportunities and challenges in the eco-friendly approach. Environmental Research, 2023, 229, 115963.	7.5	22
785	Combustion Performance of the Premixed Ammonia-Hydrogen-Air Flame in Porous Burner. Combustion Science and Technology, 0, , 1-18.	2.3	0
786	An experimental study of various load control strategies for an ammonia/hydrogen dual-fuel engine with the Miller cycle. Fuel Processing Technology, 2023, 247, 107780.	7.2	7

#	Article	IF	CITATIONS
787	An exploratory modelling study of chemiluminescence in ammonia-fuelled flames. Part 1. Combustion and Flame, 2023, 253, 112788.	5.2	1
788	Optimizing thermal performances and NOx emission in a premixed ammonia-hydrogen blended meso-scale combustor for thermophotovoltaic applications. International Journal of Hydrogen Energy, 2023, 48, 30191-30204.	7.1	10
789	Overview of Autoignition and Flame Propagation Properties for Ammonia Combustion. AIAA Journal, 2023, 61, 2754-2778.	2.6	9
790	Hydrogen solubility in ionic liquids: Application of a structure-based deep learning approach and equations of state. International Journal of Hydrogen Energy, 2023, 48, 31234-31253.	7.1	2
791	High pressure oxidation of NH <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si3.svg"><mml:msub><mml:mrow></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> / <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si9.svg"><mml:mi>n</mml:mi>-heptane mixtures. Combustion and Flame, 2023, 254, 112785.</mml:math 	5.2	13
792	Metallic Supported Pd-Ag Membranes for Simultaneous Ammonia Decomposition and H2 Separation in a Membrane Reactor: Experimental Proof of Concept. Catalysts, 2023, 13, 920.	3.5	2
793	Autoignition enhancement of ammonia spray under engine-relevant conditions via hydrogen addition: Thermal, chemical, and charge cooling effects. International Journal of Engine Research, 0, , 146808742311773.	2.3	1
794	Experimental study on burning velocity, structure, and NOx emission of premixed laminar and swirl NH3/H2/air flames assisted by non-thermal plasma. Applications in Energy and Combustion Science, 2023, 14, 100149.	1.5	1
796	An experimental study of a strategy to improve the combustion process of a hydrogen-blended ammonia engine under lean and WOT conditions. International Journal of Hydrogen Energy, 2023, 48, 33719-33731.	7.1	3
797	A novel multiple spark ignition strategy to achieve pure ammonia combustion in an optical spark-ignition engine. Fuel, 2023, 349, 128741.	6.4	12
798	Offshore green ammonia synthesis. , 2023, 2, 604-611.		2
799	Optimal scheduling of electro-thermal system considering refined demand response and source-load-storage cooperative hydrogen production. Renewable Energy, 2023, 215, 118845.	8.9	4
800	Experimental study on Miller cycle hydrogen-enriched ammonia engine by rich-burn strategy. Fuel, 2023, 350, 128899.	6.4	3
802	Dynamic Stability Characteristics of CH ₄ /NH ₃ Mixtures. , 2023, , .		0
803	Experimental study on NH3/H2/air, NH3/CO/air, NH3/H2/CO/air premix combustion in a closed pipe and dynamic simulation at high temperature and pressure. International Journal of Hydrogen Energy, 2023, 48, 34551-34564.	7.1	2
804	Synergistic effect between electric field and Ce-doped catalysts to promote hydrogen production from ammonia decomposition. Fuel, 2023, 351, 128796.	6.4	3
805	Electrochemical Nitrate Reduction: Ammonia Synthesis and the Beyond. Advanced Materials, 0, , .	21.0	36
806	CFD investigation the combustion characteristic of ammonia in low-speed marine engine under different combustion modes. Fuel, 2023, 351, 128906.	6.4	2

		CITATION R	EPORT	
#	Article		IF	CITATIONS
807	Laminar burning characteristics of ammonia and n-butanol blend fuels. Fuel, 2023, 351,	128920.	6.4	2
808	Numerical performance analysis of solid oxide fuel cell stacks with internal ammonia cra International Journal of Hydrogen Energy, 2023, 48, 35723-35743.	cking.	7.1	4
810	Experimental investigation of variable compression ratio and ignition timing effects on p combustion, and Nox emission of an ammonia/hydrogen-fuelled Si engine. International Hydrogen Energy, 2023, 48, 35139-35152.	performance, Journal of	7.1	15
811	Green ammonia production technologies: A review of practical progress. Journal of Envir Management, 2023, 342, 118348.	ronmental	7.8	13
812	Structure and Propagation Characteristics of Turbulent Premixed Ammonia-Air Flames. F Turbulence and Combustion, 0, , .	⁻ low,	2.6	1
813	Membrane Reactor Supported by MXene (Ti ₃ C ₂ T <i>_{X< Hydrogen Production by Ammonia Decomposition. Energy & Fuels, 2023, 37, 9760}</i>	/sub>) for)-9769.	5.1	2
814	Numerical study on the use of ammonia/hydrogen fuel blends for automotive spark-igni Fuel, 2023, 351, 128945.	tion engines.	6.4	9
815	On the role of metal cation in MXene in boosting the catalytic activity of single/double a electrochemical NH3 production. Chemical Engineering Journal, 2023, 470, 144243.	atom toward	12.7	3
816	On the soot formation characteristics of an ammonia-ethylene counterflow diffusion fla the orthogonal decoupling method. Fuel, 2023, 352, 129012.	me based on	6.4	3
817	Toward highly-efficient combustion of ammonia–hydrogen engine: Prechamber turbu Fuel, 2023, 352, 129009.	lent jet ignition.	6.4	24
818	Diffusion combustion of NH3 in a single bubble of fluidized bed. Fuel, 2023, 352, 12908	30.	6.4	1
819	Simulations of ammonia spray evaporation, cooling, mixture formation and combustion injection compression ignition engine. International Journal of Hydrogen Energy, 2024,	in a direct 52, 916-935.	7.1	6
820	Catalytic Activity of Molybdenum Complexes Bearing PNPâ€Type Pincer Ligand toward Formation. Angewandte Chemie, 0, , .	Ammonia	2.0	1
821	Catalytic Activity of Molybdenum Complexes Bearing PNPâ€Type Pincer Ligand toward , Formation. Angewandte Chemie - International Edition, 2023, 62, .	Ammonia	13.8	2
822	A quantitative study on the combustion and emission characteristics of an Ammonia-Die (ADDF) engine. Fuel Processing Technology, 2023, 250, 107906.	esel Dual-fuel	7.2	6
823	A study of flame dynamics and structure in premixed turbulent planar NH ₃ /H ₂ /air flames. International Journal of Engine Research, 2	2024, 25, 262-275.	2.3	1
824	Experimental and numerical comparison of currently available reaction mechanisms for speed in 70/30 (%vol.) NH3/H2 flames. Applications in Energy and Combustion Science,	laminar flame , 2023, 14, 100139.	1.5	2
825	Monitoring Toxic Gases Using Nanotechnology and Wireless Sensor Networks. IEEE Sen 2023, 23, 12274-12283.	isors Journal,	4.7	2

#	Article	IF	CITATIONS
826	Performance Investigation of Currently Available Reaction Mechanisms in the Estimation of NO Measurements: A Comparative Study. Energies, 2023, 16, 3847.	3.1	2
827	Enhancing ammonia combustion with minimum hydrogen blended in presence of self-excited intermittent pulsating oscillations. Physics of Fluids, 2023, 35, .	4.0	41
828	Effect of microsecond repetitively pulsed discharges on lean blow-off limit and emission of rapidly-mixed ammonia/air swirling flames. Applications in Energy and Combustion Science, 2023, 14, 100140.	1.5	2
829	Thermodynamic analysis of ammonia co-firing for low-rank coal-fired power plant. International Journal of Sustainable Energy, 2023, 42, 527-544.	2.4	2
830	Applying machine learning techniques to predict laminar burning velocity for ammonia/hydrogen/air mixtures. Energy and AI, 2023, 13, 100270.	10.6	4
831	Study on the effect of injection temperature and nozzle geometry on the flashing transition of liquid ammonia spray. Fuel, 2023, 348, 128612.	6.4	6
832	Ammonia-hydrogen engine with reactivity-controlled turbulent jet ignition (RCTJI). Fuel, 2023, 348, 128580.	6.4	8
833	Benchmarking plasma and electrolysis decomposition technologies for ammonia to power generation. Energy Conversion and Management, 2023, 288, 117166.	9.2	3
834	A systematic review on the acceptance of alternative marine fuels. Renewable and Sustainable Energy Reviews, 2023, 182, 113367.	16.4	24
835	Analysis of ammonia combustion for decarbonization followed by selective non-catalytic reduction of nitrogen oxides. International Journal of Hydrogen Energy, 2023, , .	7.1	1
836	An optical study of the combustion and flame development of ammonia-diesel dual-fuel engine based on flame chemiluminescence. Fuel, 2023, 349, 128507.	6.4	21
837	Experimental study of the methane/hydrogen/ammonia and ethylene/ammonia oxidation: Multi-parameter measurements using a shock tube combined with laser absorption spectroscopy. Combustion and Flame, 2023, 254, 112830.	5.2	8
838	A molecular investigation on the mechanism of co-pyrolysis of ammonia and biodiesel surrogates. Energy Conversion and Management, 2023, 289, 117164.	9.2	2
839	Optimization of a near-zero-emission energy system for the production of desalinated water and cooling using waste energy of fuel cells. Chemosphere, 2023, 336, 139035.	8.2	2
840	Review on Ru-Based and Ni-Based Catalysts for Ammonia Decomposition: Research Status, Reaction Mechanism, and Perspectives. Energy & Fuels, 2023, 37, 8099-8127.	5.1	10
841	A laser absorption sensor for fuel slip monitoring in high-humidity flue gases from ammonia combustion. Measurement Science and Technology, 2023, 34, 094005.	2.6	2
842	Ammonia/methane dual-fuel injection and Co-firing strategy in a swirl flame combustor for pollutant emissions control. Energy, 2023, 281, 128221.	8.8	1
843	Advanced Gas Turbine Cooling for the Carbon-Neutral Era. International Journal of Turbomachinery, Propulsion and Power, 2023, 8, 19.	1.1	3

#	Article	IF	CITATIONS
844	Potential of clean liquid fuels in decarbonizing transportation – An overlooked net- zero pathway?. Renewable and Sustainable Energy Reviews, 2023, 183, 113483.	16.4	8
845	On the feasibility and performance of the ammonia/hydrogen/air rotating detonation engines. Physics of Fluids, 2023, 35, .	4.0	6
846	Waste heat recovery optimization in ammonia-based gas turbine applications. Energy, 2023, 280, 128079.	8.8	1
847	Effect of acoustic excitation on the combustion and emission characteristics of methane-ammonia-air swirling flame. Fuel, 2023, 352, 129117.	6.4	3
849	Effect of equivalence ratio and mixing time on combustion of ammonia/oxygen/argon mixture using a constant volume combustion chamber with sub-chamber. Journal of Mechanical Science and Technology, 0, , .	1.5	0
850	Influence of a self-formed three-stage dual-wing-shaped carbon on reduction of soot emission from acetylene diffusion flame. Fuel, 2023, 352, 129133.	6.4	3
851	Auto-ignition and knocking combustion characteristics of iso-octane-ammonia fuel blends in a rapid compression machine. Fuel, 2023, 352, 129088.	6.4	4
852	Detailed techno-economic assessment of ammonia as green H2 carrier. International Journal of Hydrogen Energy, 2024, 52, 532-547.	7.1	6
853	Numerical Investigation of Engine Performance and Emission Characteristics of an Ammonia/Hydrogen/n-Heptane Engine Under RCCI Operating Conditions. Flow, Turbulence and Combustion, 2024, 112, 957-974.	2.6	3
854	Fundamental theory on multiple energy resources and related case studies. Scientific Reports, 2023, 13,	3.3	0
855	Numerical Studies on Hydrogen Production from Ammonia Thermal Cracking with Catalysts. Energies, 2023, 16, 5196.	3.1	1
856	Hydrogen and electricity potential generation from rice husks and persiculture biomass in Rio Grande do Sul, Brazil. Renewable Energy, 2023, 216, 118940.	8.9	2
857	Ammonia as a Carbon-Free Energy Carrier: NH ₃ Cracking to H ₂ . Industrial & Engineering Chemistry Research, 2023, 62, 10813-10827.	3.7	6
858	A Numerical Study on Premixed Turbulent Planar Ammonia/Air and Ammonia/Hydrogen/Air Flames: An Analysis on Flame Displacement Speed and Burning Velocity. Flow, Turbulence and Combustion, 2023, 111, 717-741.	2.6	2
859	Chemical Storage of Ammonia through Dynamic Structural Transformation of a Hybrid Perovskite Compound. Journal of the American Chemical Society, 0, , .	13.7	1
860	An experimental and modeling study on the laminar burning velocities of ammoniaÂ+ÂoxygenÂ+Âargon mixtures. Combustion and Flame, 2023, 255, 112930.	5.2	2
861	Techno-economic analysis of sustainable methanol and ammonia production by chemical looping hydrogen generation from waste plastic. Energy Conversion and Management, 2023, 292, 117389.	9.2	11
862	MXene-supported transition metal single-atom catalysts for nitrogen dissociation. Molecular Catalysis, 2023, 547, 113373.	2.0	0

#	Article	IF	CITATIONS
863	The feasibility of ammonia as marine fuel and its application on a medium-size LPG/ammonia carrier. Journal of Advanced Marine Engineering and Technology, 2023, 47, 143-153.	0.4	1
864	Hydrogen: Where it Can Be Used, How Much is Needed, What it May Cost. Green Energy and Technology, 2023, , 3-64.	0.6	0
865	Direct numerical simulations of methane, ammonia-hydrogen and hydrogen turbulent premixed flames. Combustion and Flame, 2023, 256, 112933.	5.2	6
866	Evolution of ammonia reaction mechanisms and modeling parameters: A review. Applications in Energy and Combustion Science, 2023, 15, 100175.	1.5	1
867	NH3 oxidation and NO reduction by NH3 in N2/Ar and CO2 atmospheres. Fuel, 2023, 353, 129212.	6.4	6
868	Advances and Perspectives of H ₂ Production from NH ₃ Decomposition in Membrane Reactors. Energy & amp; Fuels, 2023, 37, 10775-10798.	5.1	1
869	Experimental and kinetic modeling study of the autoignition and oxidation of ammonia/ethane mixtures in a rapid compression machine and a jet-stirred reactor. Combustion and Flame, 2023, 256, 112931.	5.2	3
870	Nitrogen migration and transformation from ammonia to char during ammonia-coal/char co-pyrolysis. International Journal of Hydrogen Energy, 2024, 49, 137-148.	7.1	2
871	Energy transition technology comes with new process safety challenges and risks. Chemical Engineering Research and Design, 2023, 177, 765-794.	5.6	15
872	Experimental and simulation study of NH3–H2-Air flame dynamics at elevated temperature in a closed duct. International Journal of Hydrogen Energy, 2024, 50, 48-61.	7.1	1
873	Investigation of intake air temperature effect on co-combustion characteristics of NH3/gasoline in naturally aspirated high compression ratio engine with sub-chamber. Scientific Reports, 2023, 13, .	3.3	2
874	Shock tube and modeling study on the ignition delay times of ammonia/dimethoxymethane at high temperature. Combustion and Flame, 2023, 256, 112967.	5.2	0
875	Modeling of Ammonia MILD Combustion in Systems with Internal Recirculation. Combustion Science and Technology, 0, , 1-16.	2.3	0
876	Wall heat loss effect on the emission characteristics of ammonia swirling flames in a model gas turbine combustor. Combustion and Flame, 2023, 256, 112955.	5.2	2
877	Re-Examination of the N ₂ O + O Reaction. Journal of Physical Chemistry A, 2023, 127, 6521-6531.	2.5	1
878	Hydrothermal processing for resource recovery from municipal wastewater treatment plants. , 2023, , 57-82 Understanding non-equilibrium <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td></td><td>0</td></mml:math>		0
879	altimg="si1.svg"> <mml:mrow><mml:msub><mml:mi mathvariant="normal">N<mml:mn>2</mml:mn></mml:mi </mml:msub><mml:mi mathvariant="normal">O</mml:mi </mml:mrow> / <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"</mml:math 	5.2	5
880	altimg="si31.svg"> <mml:msub><mml:mtext>NO</mml:mtext><mml:mrow><mml:mi An ExperimentabObservation of the Thermal Effects and NO Emissions during Dissociation and Oxidation of Ammonia in the Presence of a Bundle of Thermocouples in a Vertical Flow Reactor. Advances in Chemical Engineering and Science, 2023, 13, 250, 264</mml:mi </mml:mrow></mml:msub>	0.5	2

#	Article	IF	CITATIONS
881	Chemical insights into the two-stage ignition behavior of NH3/H2 mixtures in an RCM. Combustion and Flame, 2023, 256, 112985.	5.2	2
882	Transition metal enhanced chromium nitride as composite nitrogen carrier for sustainable chemical looping ammonia synthesis. Applied Catalysis B: Environmental, 2023, 339, 123134.	20.2	5
883	Differential diffusion effects in the near field of non-premixed NH3/H2/N2-air jet flames at elevated pressure. Experimental Thermal and Fluid Science, 2023, 149, 111020.	2.7	4
884	Auto-Ignition and Flame Characteristics of Ammonia Reactivity-Controlled Compression Ignition Combustion in Comparison with Methane. Energy & amp; Fuels, 2023, 37, 12503-12513.	5.1	1
885	Heat release characteristics of ammonia flames in MILD conditions. Fuel, 2023, 354, 129138.	6.4	1
886	Correlation between the structural features and intrinsic activity trend of Fe surfaces for ammonia synthesis. Catalysis Science and Technology, 2023, 13, 5237-5247.	4.1	2
887	A zero CO2 emissions large ship fuelled by an ammonia-hydrogen blend: Reaching the decarbonisation goals. Energy Conversion and Management, 2023, 293, 117497.	9.2	6
888	Simulation Analysis for Design of H ₂ /N ₂ Ratio of Feed Gas to Ammonia Synthesis Process Using Ru/CeLaTiOx Catalyst. Industrial & Engineering Chemistry Research, 2023, 62, 12559-12570.	3.7	2
889	Ammonia utilization technology for thermal power generation: A review. Journal of the Energy Institute, 2023, 111, 101365.	5.3	10
890	Kinetics modeling of NO emission of oxygen-enriched and rich-lean-staged ammonia combustion under gas turbine conditions. Fuel, 2024, 355, 129509.	6.4	3
891	MILD combustion of a premixed NH3/air jet flame in hot coflow versus its CH4/air counterpart. Fuel, 2024, 355, 129523.	6.4	4
892	Entropy production and thermodynamics exergy investigation on an ammonia-methane fueled micro-combustor with porous medium for thermophotovoltaic applications. International Journal of Hydrogen Energy, 2024, 49, 384-400.	7.1	7
893	A dedicated reduced kinetic model for ammonia/dimethyl-ether turbulent premixed flames. Combustion and Flame, 2023, 257, 113002.	5.2	1
894	Performance and emission characteristics of an ammonia/diesel dual-fuel marine engine. Renewable and Sustainable Energy Reviews, 2023, 185, 113631.	16.4	15
895	Numerical investigation of ammonia-rich combustion produces hydrogen to accelerate ammonia combustion in a direct injection SI engine. International Journal of Hydrogen Energy, 2024, 49, 338-351.	7.1	2
896	The future of ship engines: Renewable fuels and enabling technologies for decarbonization. International Journal of Engine Research, 0, , .	2.3	0
897	Pyridine-N-rich Cu single-atom catalyst boosts nitrate electroreduction to ammonia. Applied Catalysis B: Environmental, 2024, 340, 123228.	20.2	8
898	Parametric optimization and exergy analysis of a high mach number aeroengine with an ammonia mass injection pre-compressor cooling cycle. Energy, 2023, 282, 128906.	8.8	1

ARTICLE IF CITATIONS Green ammonia to Hydrogen: Reduction and oxidation catalytic processes. Chemical Engineering 899 12.7 3 Journal, 2023, 474, 145661. Computational Assessment of Ammonia as a Fuel for Light-Duty SI Engines., 0, , . Comparison of the Performance and Operation Limits of an S.I. Engine Fueled with Neat Ammonia and 901 1 Hydrogen-Ammonia Blends., 0, , . Investigation into Various Strategies to Achieve Stable Ammonia Combustion in a Spark-Ignition Engine., 0, , . The Potential Role of Ammonia for Hydrogen Storage and Transport: A Critical Review of Challenges 903 3.1 3 and Opportunities. Energies, 2023, 16, 6192. 904 Impact of Splitting n-Dodecane Pilot Injection on Ammonia RCCI Engine., 0, , . The Role of Smart Technologies in Reducing Energy Consumption and Promoting Sustainable Practices 905 0 in Households and Businesses., 2023,,. Adsorption and Desorption Behaviors of Ammonia on Zeolites at 473 K by the Pressureâ€"Swing Method. 3.5 906 ACS Ómega, 2023, 8, 32536-32543. Thermodynamic analysis and comprehensive system optimization of the near zero emission hvbrid 907 power based on SOFC-ICE integrated system fueled with ammonia. Energy Conversion and Management, 9.2 2 2023, 294, 117553. Challenges and advancement in direct ammonia solid oxide fuel cells: a review. Inorganic Chemistry 908 6.0 Frontiers, 2023, 10, 6176-6192. Mapping the research on the spontaneous combustion of high-pressure hydrogen leakage: A 909 2 7.1bibliometric analysis. International Journal of Hydrogen Energy, 2024, 50, 1006-1028. Mid-infrared absorption spectroscopy measurements and model improvements during the oxidation of 6.4 ammonia/ethanol and ammonia/diethyl ether blends in a shock tube. Fuel, 2024, 357, 129635. The nitrogen and carbon footprints of ammonia synthesis in China based on life cycle assessment. 911 7.8 0 Journal of Environmental Management, 2023, 345, 118848. Bubble-propelled micromotors for ammonia generation. Nanoscale, 2023, 15, 15785-15793. 5.6 Highly dispersed Pt boosts active Fe N formation in ammonia decomposition. Chinese Journal of 914 14.0 1 Catalysis, 2023, 50, 297-305. Chemical Looping Technology in Mildâ€Condition Ammonia Production: A Comprehensive Review and Analysis. Small, 2024, 20, . Simultaneous planar laser-induced fluorescence measurement of reactant NH3, radical NH, and 916 pollutant NO in ammonia-hydrogen flames using a single dye laser. Combustion and Flame, 2023, 256, 5.23 112981. Fuel reactivity stratification assisted jet ignition for low-speed two-stroke ammonia marine engine. 7.1 International Journal of Hydrogen Energy, 2023, , .

#	Article	IF	CITATIONS
918	Mini Review of Ammonia for Power and Propulsion: Advances and Perspectives. Energy & Fuels, 2023, 37, 14538-14555.	5.1	4
920	Effect of radiation on laminar flame speed determination in spherically propagating NH3-air, NH3/CH4-air and NH3/H2-air flames at normal temperature and pressure. Combustion and Flame, 2023, 257, 113030.	5.2	3
921	Synergistic effect of non-thermal plasma and CH4 addition on turbulent NH3/air premixed flames in a swirl combustor. International Journal of Hydrogen Energy, 2023, , .	7.1	0
922	Coâ€Ni/MOFâ€74 catalyst packedâ€bed DBD plasma for ammonia synthesis. Plasma Processes and Polymers, 2024, 21, .	3.0	Ο
923	Numerical Investigation on the Head-on Quenching (HoQ) of Laminar Premixed Lean to Stoichiometric Ammonia–Hydrogen-Air Flames. Flow, Turbulence and Combustion, 0, , .	2.6	0
924	Improved combustion of NH3/C2H4 with Ni modified Fe-based catalyst. Chemical Engineering Journal, 2023, 472, 145187.	12.7	Ο
925	Comprehensive technical review for fundamental characteristics and application of NH3 co-firing with coal. Chemical Engineering Journal, 2023, 474, 145587.	12.7	5
926	Energy Management and Economic Considerations of Intermittent Photovoltaic-Driven Electrochemical Ammonia Production. Energy & Fuels, 2023, 37, 15222-15230.	5.1	Ο
927	High-Temperature Materials for Complex Components in Ammonia/Hydrogen Gas Turbines: A Critical Review. Energies, 2023, 16, 6973.	3.1	2
928	BaCeO3 perovskite-incorporated Co catalyst for efficient NH3 synthesis under mild conditions. Chemical Engineering Journal, 2023, 475, 146354.	12.7	0
929	Thermodynamic analysis of a gas turbine utilizing ternary CH4/H2/NH3 fuel blends. Energy, 2023, 282, 128818.	8.8	2
930	A liquefied ammonia method for extracting lipids from Nannochloropsis oculata without drying and cell disruption. Bioresource Technology Reports, 2023, 24, 101623.	2.7	1
931	Effects of temperature and composition inhomogeneity on the ignition characteristics of NH3/H2 co-firing fuels under HCCI operating conditions. Applications in Energy and Combustion Science, 2023, 15, 100194.	1.5	0
932	Air Quality Implications of Using Ammonia as a Renewable Fuel: How Low Can NO _{<i>x</i>} Emissions Go?. ACS Energy Letters, 2023, 8, 4421-4426.	17.4	4
933	Ammonia/syngas MILD combustion by a novel burner. Combustion and Flame, 2023, 256, 112943.	5.2	3
934	Future Ship Development Prospect in the View of Hybrid Power. Lecture Notes in Civil Engineering, 2023, , 1162-1175.	0.4	0
935	NH3/O2 premixed combustion in a single bubble of fluidized bed. Applied Energy, 2023, 349, 121644.	10.1	2
936	Transient modeling of a green ammonia production system to support sustainable development. International Journal of Hydrogen Energy, 2023, 48, 39254-39270.	7.1	2

#	Article	IF	CITATIONS
937	Flow Cells for Ambient Ammonia Synthesis via Electrocatalytic Nitrogen Reduction. Green Energy and Technology, 2023, , 229-253.	0.6	0
938	Review of effects of zero-carbon fuel ammonia addition on soot formation in combustion. Renewable and Sustainable Energy Reviews, 2023, 185, 113640.	16.4	6
939	Experimental and numerical study of the effect of H2O and CO2 dilution on NH3/CH4 co-oxidation characteristics in a jet-stirred reactor. International Journal of Hydrogen Energy, 2023, , .	7.1	0
940	A shock tube study of fuel concentration effect on high-pressure autoignition delay of ammonia. Applications in Energy and Combustion Science, 2023, 16, 100202.	1.5	1
941	Diffusivities in Binary Mixtures of Ammonia Dissolved in <i>n</i> -Hexane, 1-Hexanol, or Cyclohexane Determined by Dynamic Light Scattering and Molecular Dynamics Simulations. Journal of Chemical & Engineering Data, 2023, 68, 2585-2598.	1.9	0
942	Heterogeneous Catalyst-Modified Anode in Solid Oxide Fuel Cells for Simultaneous Ammonia Synthesis and Energy Conversion. ACS Sustainable Chemistry and Engineering, 2023, 11, 14081-14093.	6.7	0
943	Investigation of the NH3 consumption and H2O/NO formation during the oxidation of n-heptane and iso-octane blended with ammonia. Fuel, 2024, 357, 129793.	6.4	1
944	Effect of Diesel Injection Strategy and Ammonia Energy Fraction on Ammonia-Diesel Premixed-Charge Compression Ignition Combustion and Emissions. Fuel, 2024, 357, 129785.	6.4	2
945	Performance analysis of the ammonia-enriched hydrogen-fueled Wankel rotary engine. International Journal of Hydrogen Energy, 2024, 49, 462-472.	7.1	2
946	Numerical study on spherical flame propagation in dispersed liquid ammonia droplets. Fuel, 2024, 357, 129660.	6.4	1
947	Enzyme-driven bioprocessing for enhanced bio-ammonia production from soybean meal protein isolate. Biomass Conversion and Biorefinery, 0, , .	4.6	0
948	Experimental study on effects of ammonia enrichment on the thermoacoustic instability of lean premixed swirling methane flames. Fuel, 2024, 357, 129796.	6.4	2
949	Numerical Study on Heat Release Rate Markers with Nonunity Exponents for Ammonia–Methane Premixed Flames. Energy & Fuels, 2023, 37, 15043-15053.	5.1	1
950	Investigation on the potential of using carbon-free ammonia and hydrogen in small-scaled Wankel rotary engines. Energy, 2023, 283, 129166.	8.8	11
951	Mechanistic study on the effect of ammonia co-firing with pulverized coal on NO formation and reduction. Chemical Engineering Science, 2023, 282, 119306.	3.8	1
953	Regulatory gap analysis for risk assessment of ammonia-fuelled ships. Ocean Engineering, 2023, 287, 115751.	4.3	5
954	Gas Turbine Combustion Technologies for Hydrogen Blends. Energies, 2023, 16, 6829.	3.1	9
955	A review on ammonia-hydrogen fueled internal combustion engines. ETransportation, 2023, 18, 100288.	14.8	15

#	Article	IF	CITATIONS
956	Assessing the feasibility of gray, blue, and green ammonia productions in Indonesia: A techno-economic and environmental perspective. International Journal of Renewable Energy Development, 2023, 12, 1030-1040.	2.4	0
957	Comparison of green ammonia and green hydrogen pathways in terms of energy efficiency. Fuel, 2024, 357, 129843.	6.4	4
959	Chemiluminescence- and machine learning-based monitoring of premixed ammonia-methane-air flames. Applications in Energy and Combustion Science, 2023, 16, 100212.	1.5	0
960	Prediction of NOx emissions and pathways in premixed ammonia-hydrogen-air combustion using CFD-CRN methodology. Journal of the Energy Institute, 2023, 111, 101406.	5.3	2
961	High-Pressure Fluid-Phase Equilibria and Henry's Constants of Supercritical Gases in Ammonia. Journal of Chemical & Engineering Data, 2024, 69, 573-589.	1.9	0
962	Analysis of Large-Scale Energy Storage Technology for Renewable Energy Based on Liquid Hydrogen. Advanced Topics in Science and Technology in China, 2023, , 149-155.	0.1	0
964	Abiotic Transformations of Nitrogen mediated by Iron Sulfides and related species from Early Earth to Catalyst Design, Inorganic Chemistry Frontiers, Q. Masma assisted ignition and NO combinath	6.0	0
965	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.svg"> <mml:msub> <mml:mrow /> <mml:mi>x</mml:mi> </mml:mrow </mml:msub> emission of NH <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"> <mml:msub> <mml:mrow /> <mml:mn>3 </mml:mn> </mml:mrow </mml:msub> /N <mml:math< td=""><td>5.2</td><td>0</td></mml:math<></mml:math 	5.2	0
966	Environmental impact assessment of green ammonia-powered very large tanker ship for decarbonized future shipping operations. Renewable and Sustainable Energy Reviews, 2023, 188, 113774.	16.4	4
967	Theoretical Kinetics Predictions for Reactions on the NH ₂ O Potential Energy Surface. Journal of Physical Chemistry A, 2023, 127, 8650-8662.	2.5	3
968	Combustion Behaviors and Unregular Emission Characteristics in an Ammonia–Diesel Engine. Energies, 2023, 16, 7004.	3.1	1
969	Measurements and simulations on effects of elevated pressure and strain rate on NOx emissions in laminar premixed NH3/CH4/air and NH3/H2/air flames. Fuel, 2024, 357, 130036.	6.4	1
971	The Potential of Chemically Recuperated Power Cycles in Markets with High Shares of Variable Renewables. Energies, 2023, 16, 7046.	3.1	0
972	Technological solutions for boosting hydrogen role in decarbonization strategies and net-zero goals of world shipping: Challenges and perspectives. Renewable and Sustainable Energy Reviews, 2023, 188, 113790.	16.4	12
973	Pyridine derivatives as hydrogen bond acceptors to prepare deep eutectic solvents for ammonia storage. International Journal of Hydrogen Energy, 2023, , .	7.1	1
974	Towards the development of liquid ammonia/air spray combustion in a gas turbine-like combustor at moderately high pressure. Applications in Energy and Combustion Science, 2023, 16, 100215.	1.5	0
975	Study on combustion stability and flame development of ammonia/n-heptane dual fuel using multiple optical diagnostics and chemical kinetic analyses. Journal of Cleaner Production, 2023, 428, 139412.	9.3	1
976	<i>h</i> -MBenes (M/B = 1:1) as Promising Electrocatalysts for Nitrogen Reduction Reaction: A Theoretical Study. Chemistry of Materials, 2023, 35, 9019-9028.	6.7	6

#	Article	IF	CITATIONS
978	Conversion of methylamine in a flow reactor and its interaction with NO. Combustion and Flame, 2024, 259, 113130.	5.2	1
979	Catalytic Behavior of Kâ€doped Fe/MgO Catalysts for Ammonia Synthesis Under Mild Reaction Conditions. ChemSusChem, 2023, 16, .	6.8	1
980	Stochastic Modeling of Partially Stirred Reactor (PaSR) for the Investigation of the Turbulence-Chemistry Interaction for the Ammonia-Air Combustion. Flow, Turbulence and Combustion, 2024, 112, 509-536.	2.6	1
981	Decarbonising international shipping – A life cycle perspective on alternative fuel options. Energy Conversion and Management, 2024, 299, 117848.	9.2	2
982	Plasma assisted NH3 combustion and NOx reduction technologies: Principles, challenges and prospective. International Journal of Hydrogen Energy, 2024, 52, 819-833.	7.1	1
983	A Novel Approach to Constructing Reactivity-Based Simplified Combustion Model for Dual Fuel Engine. , 0, , .		0
984	A Kinetic Modeling and Engine Simulation Study on Ozone-Enhanced Ammonia Oxidation. , 0, , .		0
985	Experimental study on the pollutant emissions of premixed ammonia/methane/air flame within porous burner. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , .	2.1	0
986	Probing the effect of fuel components on the auto-ignition behavior of ammonia/natural gas blends: A case study of ethane addition. Combustion and Flame, 2024, 259, 113186.	5.2	2
987	Modeling and simulation of dynamic characteristics of a green ammonia synthesis system. Energy Conversion and Management, 2024, 300, 117893.	9.2	1
988	Combustion and Emission Characteristics of Ammonia Jet Flames, Based on a Controllable Activated Thermal Atmosphere. , 0, , .		0
989	Effect of ammonia on the soot properties in a laminar ethylene flame. Fuel, 2024, 359, 130402.	6.4	0
990	A reduced combustion mechanism of ammonia/diesel optimized with multi-objective genetic algorithm. Defence Technology, 2023, , .	4.2	1
991	Thermodynamic and emission analysis of an ammonia fueled micro-combustor with double-channel reverse flow structure. International Journal of Hydrogen Energy, 2024, 49, 1303-1314.	7.1	2
992	lgnition enhancement and NO formation of NH3/air mixtures by non-equilibrium plasma discharge. Combustion and Flame, 2024, 259, 113140.	5.2	1
993	Transportation in Africa under Paris Agreement 2 °C goal—a review of electric vehicle potentials, cleaner alternative fuels for the sector, challenges, and opportunities. Environmental Science and Pollution Research, 0, , .	5.3	1
994	Deciphering the Mechanism of Base-Triggered Conversion of Ammonia to Molecular Nitrogen and Methylamine to Cyanide. Journal of the American Chemical Society, 2023, 145, 26339-26349.	13.7	1
995	Simultaneous removal of NO and N2O in the coexistence of NH3 and CH4 on lon-exchanged zeolites. Catalysis Communications, 2023, 184, 106804.	3.3	1

# 996	ARTICLE Comparative life cycle impact assessment of offshore support vessels powered by alternative fuels for sustainable offshore wind operations using machine learning. Journal of Ocean Engineering and	IF 4.3	CITATIONS 0
997	Science, 2023, , . Experimental and kinetic analyses on the flame dynamics and stabilization of ammonia/hydrogen-air mixtures in a micro-planar combustor. Chemical Engineering Journal, 2023, 477, 147038.	12.7	7
998	Influence of hydrogen fraction and injection timing on in-cylinder combustion and emission characteristics of hydrogen-diesel dual-fuel engine. Fuel Processing Technology, 2023, 252, 107990.	7.2	2
999	Modeling and multi-objective optimization of electrified ammonia decomposition: Improvement of performance and thermal behavior. Fuel, 2024, 358, 130243.	6.4	0
1001	2023 roadmap on ammonia as a carbon-free fuel. JPhys Energy, 2024, 6, 021501.	5.3	1
1002	Optimizing micro-diffusion flame energy density and stability through the application of magnetic fields: A numerical study. International Journal of Hydrogen Energy, 2024, 51, 179-189.	7.1	0
1003	The effect of ammonia on soot formation in ethylene diffusion flames. Science China Technological Sciences, 2023, 66, 3422-3438.	4.0	0
1004	Lubricant Performance and Reliability of Ammonia Fueled Internal Combustion Engines. , 0, , .		0
1005	Comparison of the effect of diesel and hydrogen addition on ammonia combustion characteristics in a marine engine. , 0, , .		0
1006	Crossover, volatilization, and adsorption of ammonium ions in a proton-exchange membrane electrolyzer in relation to electrochemical ammonia production. Chemical Engineering Journal, 2023, 478, 147359.	12.7	1
1007	Ammonia combustion in furnaces: A review. International Journal of Hydrogen Energy, 2024, 49, 1597-1618.	7.1	2
1008	Enhancement of lean blowout limits of swirl stabilized NH3-CH4-Air flames using nanosecond repetitively pulsed discharges at elevated pressures. Applications in Energy and Combustion Science, 2023, 16, 100225.	1.5	1
1009	Effects of ammonia energy fractions, diesel injection timings, and loads on combustion and emission characteristics of PFI-DI ammonia-diesel engines. International Journal of Engine Research, 2024, 25, 743-757.	2.3	0
1010	Towards a marine green power system architecture: Integrating hydrogen and ammonia as zero-carbon fuels for sustainable shipping. International Journal of Hydrogen Energy, 2024, 50, 1069-1087.	7.1	4
1011	Hydrogen carriers for zero-emission ship propulsion using PEM fuel cells: an evaluation. Journal of Marine Engineering and Technology, 0, , 1-18.	4.1	1
1012	A review of hydrogen generation, storage, and applications in power system. Journal of Energy Storage, 2024, 75, 109307.	8.1	6
1013	Balanced NO _{<i>x</i>} [–] and Proton Adsorption for Efficient Electrocatalytic NO _{<i>x</i>} [–] to NH ₃ Conversion. ACS Nano, 2023, 17, 23637-23648.	14.6	0
1014	Numerical analysis of the enrichment of CH4/H2 in ammonia combustion in a hot co-flow environment. International Journal of Hydrogen Energy, 2024, 55, 1071-1089.	7.1	2

#	Article	IF	CITATIONS
1015	Energy Efficient Transshipment of Ammonia: A Numerical Study of Various Terminal Concepts. Energy Technology, 0, , .	3.8	0
1016	Industrial scale testing on the combustion and NO emission characteristics of ammonia cofiring in a 40 MWth coal-fired boiler. Fuel, 2024, 359, 130471.	6.4	1
1017	The impact of hydrogen addition and OH concentration on NO emissions in high-pressure NH3/air combustion. International Journal of Hydrogen Energy, 2024, 54, 1017-1028.	7.1	1
1018	Evaluation, Reduction, and Validation of a New Skeletal Mechanism for the Cofiring of NH ₃ and CH ₄ . ACS Omega, 2023, 8, 47113-47122.	3.5	0
1019	Experimental and kinetic modeling study on ammonia/polyoxymethylene dimethyl ether 2 oxidation in a jet-stirred reactor. Fuel, 2024, 359, 130528.	6.4	0
1020	N ₂ O Consumption by Thermal Decomposition and Reduction with CH ₄ , C ₂ H ₆ and NH ₃ . Combustion Science and Technology, 0, , 1-17.	2.3	0
1022	Impact of Ammonia Share on Combustion, Cycle-to-Cycle Variations, and Performance Characteristics of Methane-Fueled SI Engine. , 0, , .		0
1025	Effects of ammonia addition on soot formation in hydrocarbon fuels combustion: Challenges and prospects. Fuel, 2024, 360, 130569.	6.4	5
1026	Coupled interactive effects of ammonia and hydrogen additions on ethylene diffusion flames: A detailed kinetic study. Science China Technological Sciences, 0, , .	4.0	0
1027	Exploration of NH3 and NH3/DME laminar flame propagation in O2/CO2 atmosphere: Insights into NH3/CO2 interactions. Combustion and Flame, 2024, 260, 113245.	5.2	1
1028	Exploring the GHG reduction potential of pilot diesel-ignited ammonia engines - Effects of diesel injection timing and ammonia energetic ratio. Applied Energy, 2024, 357, 122437.	10.1	1
1029	Effects of Ammonia Addition on the Sooting Characteristics of Ethylene Counterflow Diffusion Flames with Oscillating Strain Rates. Energy & Fuels, 2023, 37, 19950-19958.	5.1	0
1030	Development of photoelectrochemical water splitting photoanode: bibliometric analysis and artificial intelligence advancement. Clean Technologies and Environmental Policy, 0, , .	4.1	0
1031	The Potential of Molecular Electrocatalysis for Ammoniaâ€toâ€Dinitrogen Conversion. ChemElectroChem, 2024, 11, .	3.4	1
1032	The combustion chemistry of ammonia and ammonia/hydrogen mixtures: A comprehensive chemical kinetic modeling study. Combustion and Flame, 2024, 260, 113239.	5.2	1
1033	Comparative study on combustion and flame characteristics of NH3 dual-fuel engine under CI vs SI combustion modes. Fuel, 2024, 359, 130525.	6.4	0
1036	Exploring the Green Production of Ammonia from Nitrogen-Enriched Biowaste Gasification: Nitrogen Conversion from Tea Waste and Theanine. Industrial & Engineering Chemistry Research, 2023, 62, 20579-20587.	3.7	0
1037	Hazard Identification of Hydrogen-Based Alternative Fuels Onboard Ships. Sustainability, 2023, 15, 16818.	3.2	0

#	Article	IF	CITATIONS
1038	Photocatalytic Conversion of Carbon Dioxide and Nitrogen Dioxide: Current Developments, Challenges, and Perspectives. Industrial & Engineering Chemistry Research, 0, , .	3.7	0
1039	Evaluating ammonia sensors based on two-dimensional pure and silicon-decorated biphenylene using DFT calculations. Inorganic Chemistry Communication, 2024, 160, 111918.	3.9	0
1040	Experimental study on the performance of a high compression ratio SI engine using alcohol/ammonia fuel. Energy, 2024, 289, 129998.	8.8	0
1041	Green vs fossil-based energy vectors: A comparative techno-economic analysis of green ammonia and LNG value chains. Journal of Environmental Chemical Engineering, 2024, 12, 111723.	6.7	1
1043	Absorption and desorption behaviours of ammonia on bis(fluorosulfonyl)amide salts investigated using the pressure-swing method. Sustainable Energy and Fuels, 0, , .	4.9	0
1044	NO _{<i>x</i>} Emission and Control in Ammonia Combustion: State-of-the-Art Review and Future Perspectives. Energy & Fuels, 0, , .	5.1	0
1045	Shock-tube laminar flame speed measurements of ammonia/airgon mixtures at temperatures up to 771K. Combustion and Flame, 2024, 260, 113256.	5.2	2
1046	Production and utilization of green ammonia for decarbonizing the energy sector with a discrete focus on Sustainable Development Goals and environmental impact and technical hurdles. Fuel, 2024, 360, 130626.	6.4	2
1047	A review on investigation of ammonia biodiesel fuel blends in micro gas turbine using simulation and modeling. AIP Conference Proceedings, 2023, , .	0.4	0
1048	Microbial adaptation to high ammonia environment in submerged anaerobic membrane bioreactor under volatile fatty acids and ammonia stresses. Biochemical Engineering Journal, 2024, 204, 109192.	3.6	0
1049	Multi-speciation and ignition delay time measurements of ammonia oxidation behind reflected shock waves. Combustion and Flame, 2024, 260, 113260.	5.2	1
1050	A comprehensive experimental study to analyze the cyclic variation of a hydrogen-blended ammonia engine with the Miller cycle. International Journal of Hydrogen Energy, 2024, 55, 1335-1346.	7.1	0
1051	Design of Cu-based bimetals for ammonia catalytic combustion via DFT-based microkinetic modeling. Journal of Catalysis, 2024, 429, 115264.	6.2	0
1052	Evaluation of Minimum NOx Emission From Ammonia Combustion. Journal of Engineering for Gas Turbines and Power, 0, , 1-23.	1.1	0
1053	Comparative analysis of Diesel, B50, and H50 fuels in a diesel engine employing air-fuel ratio and exhaust gas recirculation. International Journal of Hydrogen Energy, 2024, 56, 113-126.	7.1	0
1054	Investigating auto-ignition characteristics and kinetic modeling of NH3/CH4 mixtures using an RCM. Combustion and Flame, 2024, 260, 113257.	5.2	0
1055	Numerical study on combustion characteristics of ammonia mixture under different combustion modes. International Journal of Hydrogen Energy, 2024, 54, 1403-1409.	7.1	2
1058	Effect of ammonia on N migration and transformation characteristics during coal pyrolysis: Quantum chemical calculations and pyrolysis experiments. Fuel, 2024, 361, 130762.	6.4	0

#	Article	IF	CITATIONS
1059	The importance of dynamic operation and renewable energy source on the economic feasibility of green ammonia. Joule, 2023, , .	24.0	1
1060	Experimental and computational (Chemical Kinetic + CFD) analyses of Self-Recuperative annular tubular porous burner for NH3/CH4 -air Non-Premixed combustion. Chemical Engineering Journal, 2024, 481, 148439.	12.7	0
1061	Review of ammonia production and utilization: Enabling clean energy transition and net-zero climate targets. Energy Conversion and Management, 2024, 300, 117869.	9.2	1
1062	Exergoeconomic comparison of a novel to a conventional small-scale power-to-ammonia cycle. Energy Reports, 2024, 11, 1120-1134.	5.1	0
1063	Enhancing combustion efficiency and reducing nitrogen oxide emissions from ammonia combustion: A comprehensive review. Chemical Engineering Research and Design, 2024, 183, 514-543.	5.6	0
1064	Synergistic catalytic conversion of nitrate into ammonia on copper phthalocyanine and FeNC two-component catalyst. Chinese Journal of Catalysis, 2024, 56, 104-113.	14.0	0
1065	Exploring nitrogen reduction reaction mechanisms in electrocatalytic ammonia synthesis: A comprehensive review. Journal of Energy Chemistry, 2024, 92, 681-697.	12.9	0
1066	Surface States Governing the Activity and Selectivity of Pt-Based Ammonia Slip Catalysts for Selective Ammonia Oxidation. ACS Catalysis, 2024, 14, 1107-1120.	11.2	0
1067	Experimental study of combustion instability and emission characteristics of ethanol/ammonia co-firing swirl flame. Fuel, 2024, 362, 130786.	6.4	0
1068	Enhanced ammonia combustion by partial pre-cracking strategy in a gas turbine model combustor: Flame macrostructures, lean blowout characteristics and exhaust emissions. Applications in Energy and Combustion Science, 2024, 17, 100247.	1.5	0
1069	NO emission characteristics of air coflowed non-premixed ammonia jet flame at elevated ambient temperatures and with N2 dilution. Journal of Cleaner Production, 2024, 435, 140463.	9.3	0
1070	Simultaneous production of dry solid biomass and liquid extract from Sorghum bicolor using liquefied ammonia. Bioresource Technology Reports, 2024, 25, 101757.	2.7	0
1071	Fine Gas Purification Approaches for High Purity Hydrogen Production from Ammonia. Energy Technology, 0, , .	3.8	0
1072	A numerical study of NOX and soot emissions in ethylene-ammonia diffusion flames with oxygen enrichment. Fuel, 2024, 362, 130834.	6.4	0
1073	Experimental characterization of direct injection liquid ammonia sprays under non-reacting diesel-like conditions. Fuel, 2024, 362, 130851.	6.4	0
1074	Experimental and Modeling High-Pressure Study of Ammonia–Methane Oxidation in a Flow Reactor. Energy & Fuels, 2024, 38, 1399-1415.	5.1	0
1075	Enhancing ammonia engine efficiency through pre-chamber combustion and dual-fuel compression ignition techniques. Journal of Cleaner Production, 2024, 436, 140622.	9.3	1
1076	Emerging trends in research and development on earth abundant materials for ammonia degradation coupled with H ₂ generation. Science and Technology of Advanced Materials, 2024, 25, .	6.1	0

		CITATION R	EPORT	
#	Article		IF	Citations
1077	Ammonia fired gas turbines: Recent advances and future perspectives. Energy, 2024, 2	90, 130275.	8.8	1
1078	How Does Structural Disorder Impact Heterogeneous Catalysts? The Case of Ammonia on Non-stoichiometric Lithium Imide. ACS Catalysis, 2024, 14, 1252-1256.	Decomposition	11.2	0
1079	Clean hydrogen production from ammonia decomposition over zeolite 13X-supported Sustainable Energy and Fuels, 2024, 8, 896-904.	Ni catalysts.	4.9	1
1081	Numerical investigation on pyrolysis and ignition of ammonia/coal blends during co-firi Combustion and Flame, 2024, 261, 113268.	ng.	5.2	0
1082	Laminar burning velocity of Ammonia/Air mixtures at high pressures. Fuel, 2024, 363, 1	130986.	6.4	1
1083	Numerical investigation on gaseous fuel injection strategies on combustion characteris emission performance in a pure hydrogen engine. Fuel, 2024, 363, 130911.	stics and NO	6.4	0
1084	Continuous ammonia synthesis from water and nitrogen via contact electrification. Pro the National Academy of Sciences of the United States of America, 2024, 121, .	oceedings of	7.1	3
1085	Status and challenges for realizing low emission with hydrogen ultra-lean combustion. Journal of Hydrogen Energy, 2024, 57, 1419-1436.	International	7.1	0
1086	An experimental study on H2/NH3/CH4-air laminar propagating spherical flames at elevand oxygen enrichment. International Journal of Hydrogen Energy, 2024, 58, 28-39.	vated pressure	7.1	0
1087	The present situation, challenges, and prospects of the application of ammonia–coal technology in power plant boilers. Journal of the Energy Institute, 2024, 113, 101531.	l co-firing	5.3	0
1088	Green Ammonia: Progress and Challenges. , 2024, , .			0
1089	Ammonia combustion using hydrogen jet ignition (AHJI) in internal combustion engine 291, 130407.	s. Energy, 2024,	8.8	0
1090	Experimental and numerical study of combustion characteristics of ammonia–hydrog flame with/without secondary air injection. Chinese Journal of Aeronautics, 2024, 37, 2	gen–air swirling ?43-255.	5.3	1
1091	An experimental, theoretical, and kinetic modeling study of post-flame oxidation of am Combustion and Flame, 2024, 261, 113325.	monia.	5.2	0
1092	A roadmap to alternative fuels for decarbonising shipping: The case of green ammonia. Transportation Business and Management, 2024, 53, 101100.	. Research in	2.9	0
1093	Experimental study on the effects of ammonia cofiring ratio and injection mode on the characteristics of ammonia-coal cofiring. Fuel, 2024, 363, 130996.	NO emission	6.4	0
1094	Probing into Volatile Combustion Flame and Particulate Formation Behavior during the Ammonia Cofiring Process: Further Study on the Chemical Structure and Oxidation Rea Particles. Energy & amp; Fuels, 2024, 38, 2489-2500.	coal and activity of Soot	5.1	0
1095	Bibliometric analysis on hydrogen and ammonia: a comparative evaluation for achievin decarbonization targets. International Journal of Environmental Science and Technolog 7039-7060.	g IMO's gy, 2024, 21,	3.5	0

#	Article	IF	Citations
1096	Experimental study on the explosion characteristics of ammonia-hydrogen-air mixtures. Fuel, 2024, 363, 131046.	6.4	0
1097	An improved particle swarm algorithm-based method for kinetic modeling study of ammonia/air laminar flame speed. Fuel, 2024, 363, 131019.	6.4	0
1098	Green Ammonia Futures: Design and Analysis Based on General Equilibrium Theory. , 2023, , .		0
1099	Experimental and numerical study on the effects of coal on ammonia-N conversion behavior during ammonia-coal co-firing. Fuel, 2024, 364, 131032.	6.4	0
1100	Improving thermal efficiency of an ammonia-diesel dual-fuel compression ignition engine with the addition of premixed low-proportion hydrogen. International Journal of Hydrogen Energy, 2024, 58, 707-716.	7.1	0
1101	Diode Laser Absorption Sensor near 2.2 μm for Investigating Shock Tube Chemical Kinetics of NH ₃ Fuel. , 2024, , .		0
1102	Flow Reactor Oxidation of Ammonia–Hydrogen Fuel Mixtures. Energy & Fuels, 2024, 38, 3369-3381.	5.1	0
1103	Large-Eddy Simulation of Isothermal Flow in a Technical Swirl Burner for Ammonia Combustion Applications. , 2024, , .		0
1104	Effect of H ₂ O ₂ addition to the turbulent premixed ammonia flames. , 2024, , .		0
1105	Challenges and Opportunities of Ammonia as a Zero-Emission Aircraft Fuel. , 2024, , .		0
1106	Optical diagnostics in impact of ammonia energy ratio and diesel split ratio on combustion process and flame propagation in an Ammonia-Diesel Dual-Fuel engine. Fuel, 2024, 364, 131074.	6.4	1
1107	Impact of Landing Interruptions on the Optimal Design and Operation of Green Hydrogen Hubs. , 2023, ,		0
1108	Mixed-Potential Ammonia Sensor Based on a Dense Yttria-Stabilized Zirconia Film Manufactured at Room Temperature by Powder Aerosol Deposition. Sensors, 2024, 24, 811.	3.8	0
1109	A comparative study of different turbulence models for premixed NH3/H2 combustion in a swirl-stabilized burner. , 2023, , .		0
1110	lgnition characteristics of hydrogen-enriched ammonia/air mixtures. Applications in Energy and Combustion Science, 2024, 17, 100254.	1.5	0
1111	Development of integrative data intelligence models for thermo-economic performances prediction of hybrid organic rankine plants. Energy, 2024, 292, 130503.	8.8	0
1112	Towards sustainable hydrogen and ammonia internal combustion engines: Challenges and opportunities. Fuel, 2024, 364, 131090.	6.4	1
1113	Combustion of an ammonia bubble with an oxygen bubble in a fluidized bed. Applied Thermal Engineering, 2024, 244, 122591.	6.0	0

#	Article	IF	CITATIONS
1114	Experimental investigation on combustion characteristics of ammonia/air using turbulent jet ignition with auxiliary oxygen in pre-chamber. Applied Thermal Engineering, 2024, 243, 122622.	6.0	1
1115	Potential Benefits, Challenges and Perspectives of Various Methods and Materials Used for Hydrogen Storage. Energy & Fuels, 2024, 38, 2630-2653.	5.1	0
1116	Effects of Injection Timings and Energy Ratios on the Combustion and Emission Characteristics of <i>n</i> -Heptane/Ammonia RCCI Mode. Energy & Fuels, 2024, 38, 3491-3502.	5.1	0
1117	Experimental study on the combustion and emission characteristics of ammonia-diesel dual fuel engine under high ammonia energy ratio conditions. Journal of the Energy Institute, 2024, 114, 101557.	5.3	0
1118	Numerical study of condensation heat transfer characteristics of R134a/R290 and R134a/R1270 refrigerant blends as alternatives to replace R404A. Applied Thermal Engineering, 2024, 243, 122644.	6.0	0
1119	Characteristics of unsteady rotating gliding arc induced ignition of ammonia–air mixture in swirling flow. Fuel, 2024, 364, 131117.	6.4	0
1120	Boosting the Faraday Efficiency of Electrochemical Ammonia Synthesis via the Strain Effect Induced by Interfacial Hybrid Formation between BN and Carbon Nanotubes. ACS Applied Materials & Interfaces, 2024, 16, 8832-8841.	8.0	1
1121	Unveiling the Structure–Property Relationship of MgO-Supported Ni Ammonia Decomposition Catalysts from Bulk to Atomic Structure by In Situ/Operando Studies. ACS Catalysis, 2024, 14, 2828-2841.	11.2	0
1122	Risk assessment of ammonia bunkering operations: Perspectives on different release scales. Journal of Hazardous Materials, 2024, 468, 133757.	12.4	0
1123	Comparative analysis among different alternative fuels for ship propulsion in a well-to-wake perspective. Heliyon, 2024, 10, e26016.	3.2	0
1124	Technical feasibility of a 1000 MWe pulverized coal power plant under ammonia co-combustion conditions. Case Studies in Thermal Engineering, 2024, 55, 104118.	5.7	0
1125	Hybrid rich- and lean-premixed ammonia-hydrogen combustion for mitigation of NOx emissions and thermoacoustic instabilities. Combustion and Flame, 2024, 262, 113366.	5.2	1
1126	Blow-Off Limits, Flame Structure, and Emission Characteristics of Lean Partially Premixed Swirl-Stabilized Flames with NH ₃ /CH ₄ . Energy & Fuels, 2024, 38, 4721-4732.	5.1	0
1128	A comparative study of different turbulence models for premixed NH3/H2 combustion in a swirl-stabilized burner. , 2023, , .		0
1129	Toward mobility of solid oxide fuel cells. Progress in Energy and Combustion Science, 2024, 102, 101141.	31.2	1
1130	Chemical kinetic study of gasoline surrogate with ammonia on combustion: Iso-octane modeling. Fuel, 2024, 365, 131179.	6.4	2
1131	Ammonia and hydrogen production by immobilized cyanobacteria in membranes. , 2024, , 179-204.		0
1132	Study on the deflagrations of NH3/H2/air in an end-open duct: Effects of ignition position and hydrogen fraction. International Journal of Hydrogen Energy, 2024, 60, 55-65.	7.1	0

#	Article	IF	CITATIONS
1133	Thermal performances and NOx emission studies on an ammonia-hydrogen fueled double-channel outlet micro-combustor for thermophotovoltaic applications. Energy and Built Environment, 2024, , .	5.9	0
1134	Evaluation of classical MILD combustion criteria for binary blends of ammonia, methane and hydrogen. International Journal of Hydrogen Energy, 2024, 60, 566-580.	7.1	0
1135	Ammonia and conventional engine fuels: comparative environmental impact assessment. , 2024, , 325-353.		0
1136	Plasma-catalytic ammonia synthesis on Ni catalysts supported on Al2O3, Si-MCM-41 and SiO2. International Journal of Hydrogen Energy, 2024, 60, 802-813.	7.1	0
1137	Experimental Investigation on Fine Particle Formation in Ammonia/Biomass Co-combustion. Energy & amp; Fuels, 2024, 38, 4360-4367.	5.1	0
1138	Ammonia storage and transportation. , 2024, , 251-270.		0
1140	Numerical investigation on the flame propagation process of ammonia/hydrogen blends under engine-related conditions. International Journal of Hydrogen Energy, 2024, 60, 1041-1053.	7.1	0
1141	Experimental study on the effects of water addition in methanol on the performance of diesel-methanol diffusion combustion on a high-speed engine. Journal of Cleaner Production, 2024, 446, 141436.	9.3	0
1142	Self-promoted fuel pyrolysis under oxygen enrichment enables clean and efficient ammonia combustion. , 2024, 1, 100006.		0
1143	Experimental investigation on combustion and emission characteristics of non-premixed ammonia/hydrogen flame. International Journal of Hydrogen Energy, 2024, 61, 25-38.	7.1	0
1144	Conversion of NH3/CO/NO/CO2 mixtures. Fuel, 2024, 366, 131297.	6.4	0
1145	Numerical Analysis of Laminar Burning Velocity and Optimization of Reaction. Sustainable Energy, 2024, 14, 1-20.	0.1	0
1146	Experimental study on the combustion of NH3/H2/air based on the passive turbulent jet ignition. Fuel, 2024, 365, 131268.	6.4	0
1147	Ammonia marine engine design for enhanced efficiency and reduced greenhouse gas emissions. Nature Communications, 2024, 15, .	12.8	0
1148	Experimental and numerical analysis of engine characteristics of an ammonia-substituted dual-fuel CRDI diesel engine. Fuel, 2024, 366, 131354.	6.4	0
1149	Clean ammonia as a potential fuel for power generators. , 2024, , 1-16.		0
1150	Coal-Fired Power Plants Using Ammonia for Flexibility Enhancement under Carbon Control Strategies: Status, Development, and Perspectives. Energy & Fuels, 2024, 38, 4946-4965.	5.1	0
1151	Catalyst: ammonia as an energy carrier. , 2024, , 17-47.		0

#	Article	IF	CITATIONS
1152	Levelised cost of transmission comparison for green hydrogen and ammonia in new-build offshore energy infrastructure: Pipelines, tankers, and HVDC. International Journal of Hydrogen Energy, 2024, 62, 684-698.	7.1	0
1153	Recent advances in 2D structured materials with defect-exploiting design strategies for electrocatalysis of nitrate to ammonia. , 0, 4, .		0
1154	Reduced kinetics of NH3/n-heptane: Model analysis and a new small mechanism for engine applications. Fuel, 2024, 367, 131464.	6.4	0
1155	Efficient and selective absorption of NH3 by supramolecular OHP[5]-based ternary deep eutectic solvents. Journal of Molecular Liquids, 2024, 400, 124505.	4.9	0
1156	A comparative theoretical study of the mechanism of ammonia decomposition on various Co/Ni catalysts using density functional theory. Surface Science, 2024, 745, 122483.	1.9	0
1157	Vapor compression and energy dissipation in a collapsing laser-induced bubble. Physics of Fluids, 2024, 36, .	4.0	0
1158	Effect of flue gas recirculation on combustion instability and emission characteristics of premixed CH4/NH3/air flame. International Journal of Hydrogen Energy, 2024, 63, 1025-1035.	7.1	0
1159	An experimental investigation into ammonia dissociation, oxidation and NO emission in a vertical flow reactor. International Journal of Hydrogen Energy, 2024, 63, 943-951.	7.1	0
1160	CH ₄ /NH ₃ Flame Structure and Extinction Limit under Flame–Flame Interactions. ACS Omega, 2024, 9, 14997-15014.	3.5	0
1161	Data-driven prediction of laminar burning velocity for ternary ammonia/hydrogen/methane/air premixed flames. Fuel, 2024, 368, 131581.	6.4	0
1162	A shock tube study of the ignition delay time of DME/ammonia mixtures: Effect of fuel blending from high temperatures to the NTC regime. Fuel, 2024, 367, 131426.	6.4	0
1163	Sm2+ ions boost ammonia electrooxidation reaction on samarium oxide anode for hydrogen generation in non-aqueous electrolyte. Nano Research, 0, , .	10.4	0
1164	Combustion and emission characteristics of ammonia-hydrogen fueled SI engine with high compression ratio. International Journal of Hydrogen Energy, 2024, 62, 579-590.	7.1	0
1165	Characterizing turbulent non-premixed flame structure and pollutant formation of cracked ammonia jet flames using simultaneous NH and NO PLIF. Fuel, 2024, 367, 131430.	6.4	0
1166	Experimental study of CO2/H2/NH3 influence on CH4 flameless combustion process in semi-industrial furnace. Energy, 2024, 296, 131014.	8.8	0
1167	Large-scale shipping of low-carbon fuels and carbon dioxide towards decarbonized energy systems: Perspectives and challenges. International Journal of Hydrogen Energy, 2024, 63, 217-230.	7.1	0
1168	Experimental study and kinetic analysis of NO emission characteristics in ammonia/coal co-firing process with different ammonia injection methods. Journal of the Energy Institute, 2024, 114, 101609.	5.3	0
1169	The coupling influence of chemical/physical effects of NH3 on the NO formation in the premixed CH4–NH3 flames. Journal of the Energy Institute, 2024, 114, 101614.	5.3	0

#	Article	IF	CITATIONS
1170	Simulation study on nitrogen transformation characteristics of NH3/Coal Co-firing under deeply air-staged condition. Journal of the Energy Institute, 2024, 114, 101613.	5.3	0
1171	Combustion and emission characteristics of a gasoline/ammonia fueled SI engine and chemical kinetic analysis of NOx emissions. Fuel, 2024, 367, 131516.	6.4	0
1172	Influence of swirl intensity on combustion dynamics and emissions in an ammonia-enriched methane/air combustor. Physics of Fluids, 2024, 36, .	4.0	0
1173	altimg= si145.svg_display= inline_id= d1e1296 > <mml:msub><mml:mrow /><mml:mrow><mml:mno>3</mml:mno></mml:mrow></mml:mrow </mml:msub> -H <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si146.svg" display="inline" id="d1e1304"><mml:msub><mml:mrow< td=""><td>1.5</td><td>0</td></mml:mrow<></mml:msub></mml:math 	1.5	0
1174	Unraveling the deactivation mechanism of Co-LiH composite catalyst for ammonia synthesis at milder conditions. Applied Catalysis A: General, 2024, 677, 119677.	4.3	0
1175	A critical review of NH3–H2 combustion mechanisms. Renewable and Sustainable Energy Reviews, 2024, 196, 114363.	16.4	0