

Ammonia as a Suitable Fuel for Fuel Cells

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Ru-N-C Hybrid Nanocomposite for Ammonia Dehydrogenation: Influence of N-doping on Catalytic Activity. <i>Materials</i> , 2015, 8, 3442-3455.	1.3	19
2	Comparative life cycle assessment of various ammonia production methods. <i>Journal of Cleaner Production</i> , 2016, 135, 1379-1395.	4.6	230
3	The role (or lack thereof) of nitrogen or ammonia adsorption-induced hydrogen flux inhibition on palladium membrane performance. <i>Journal of Membrane Science</i> , 2016, 514, 65-72.	4.1	31
4	Multi-Component Fe-Ni Hydroxide Nanocatalyst for Oxygen Evolution and Methanol Oxidation Reactions under Alkaline Conditions. <i>ACS Catalysis</i> , 2017, 7, 365-379.	5.5	154
5	Feasibility of N ₂ Binding and Reduction to Ammonia on Fe-Deposited MoS ₂ 2D Sheets: A DFT Study. <i>Chemistry - A European Journal</i> , 2017, 23, 8275-8279.	1.7	173
6	Electrochemical Ammonia Synthesis—The Selectivity Challenge. <i>ACS Catalysis</i> , 2017, 7, 706-709.	5.5	689
7	Electrochemical Ammonia Synthesis Using Mixed Protonic-Electronic Conducting Cathodes with Exsolved Ru-Nanoparticles in Proton Conducting Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1323-F1330.	1.3	26
8	Ammonia as a Renewable Energy Transportation Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10231-10239.	3.2	491
9	A Recyclable Metal-Organic Framework as a Dual Detector and Adsorbent for Ammonia. <i>Chemistry - A European Journal</i> , 2017, 23, 13602-13606.	1.7	52
10	Defined functionality and increased luminescence of nanodiamonds for sensing and diagnostic applications by targeted high temperature reactions and electron beam irradiation. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2527-2540.	3.2	12
11	Electrochemical synthesis of ammonia from wet nitrogen via a dual-chamber reactor using La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ - Ce _{0.8} Gd _{0.18} Ca _{0.02} O ₂ composite cathode. <i>Catalysis Today</i> , 2017, 286, 51-56.	2.2	37
12	Aqueous electrocatalytic N ₂ reduction under ambient conditions. <i>Nano Research</i> , 2018, 11, 2992-3008.	5.8	221
13	Reactive nitrogen: A perspective on its global impact and prospects for its sustainable production. <i>Sustainable Production and Consumption</i> , 2018, 15, 35-48.	5.7	21
14	Low-temperature ammonia decomposition catalysts for hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 162-181.	10.8	307
15	Controlling the Wettability between Freestanding Electrode and Electrolyte for High Energy Density Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A5006-A5013.	1.3	31
16	Exergy and Energy Analysis of Solid Oxide Fuel Cell Fuelled Using Methanol Propane, and Butane. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 173, 012010.	0.2	2
17	Electron-driven heterogeneous catalytic synthesis of ammonia: Current states and perspective. <i>Carbon Resources Conversion</i> , 2018, 1, 2-31.	3.2	50
18	Nitrogen Fixation with Water on Carbon-Nitride-Based Metal-Free Photocatalysts with 0.1% Solar-to-Ammonia Energy Conversion Efficiency. <i>ACS Applied Energy Materials</i> , 2018, 1, 4169-4177.	2.5	103

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19	Electrochemical Synthesis of Ammonia from N_2 and H_2O under Ambient Conditions Using Pore-Size-Controlled Hollow Gold Nanocatalysts with Tunable Plasmonic Properties. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5160-5166.	2.1	104
20	2.1 Ammonia. , 2018, , 1-39.		4
21	Plasmon-enhanced photo(electro)chemical nitrogen fixation under ambient conditions using visible light responsive hybrid hollow Au-Ag ₂ O nanocages. <i>Nano Energy</i> , 2019, 63, 103886.	8.2	73
22	Strategies toward Selective Electrochemical Ammonia Synthesis. <i>ACS Catalysis</i> , 2019, 9, 8316-8324.	5.5	145
23	Assessment of a stand-alone hybrid solar and wind energy-based electric vehicle charging station with battery, hydrogen, and ammonia energy storages. <i>Energy Storage</i> , 2019, 1, e84.	2.3	14
24	Islanded ammonia power systems: Technology review & conceptual process design. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109339.	8.2	141
25	Mainstream Ammonium Recovery to Advance Sustainable Urban Wastewater Management. <i>Environmental Science & Technology</i> , 2019, 53, 11066-11079.	4.6	126
26	Elucidation of the Active Phase and Deactivation Mechanisms of Chromium Nitride in the Electrochemical Nitrogen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23967-23975.	1.5	27
27	Electrocatalytic Ammonia Oxidation Mediated by a Polypyridyl Iron Catalyst. <i>ACS Catalysis</i> , 2019, 9, 10101-10108.	5.5	72
28	Investigation of perovskite oxide $Sr_{0.8}Fe_{0.2}O_{3-\delta}$. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26554-26564.	0.8	11
29	Proton transfer in hydrogen-bonded degenerate systems of water and ammonia in metal-organic frameworks. <i>Chemical Science</i> , 2019, 10, 16-33.	3.7	224
30	An Fe ^{III} dinuclear metallacycle complex as a size-selective adsorbent for nitrogenous compounds and a potentially effective ammonia storage material. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15225-15232.	5.2	15
31	New Insights into Electrochemical Ammonia Oxidation on Pt(100) from First Principles. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10819-10828.	1.8	71
32	Operation of solid oxide fuel cells with alternative hydrogen carriers. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18382-18392.	3.8	58
33	Pt-embedded in monolayer g-C ₃ N ₄ as a promising single-atom electrocatalyst for ammonia synthesis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11908-11914.	5.2	78
34	Investigation of Perovskite Oxide SrCo _{0.8} Cu _{0.1} Nb _{0.1} O _{3-δ} as a Cathode Material for Room Temperature Direct Ammonia Fuel Cells. <i>ChemSusChem</i> , 2019, 12, 2788-2794.	3.6	19
35	The use of ammonia as a fuel for transport: Integration with solid oxide fuel cells. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	17
36	Solid Oxide Fuel Cells fuelled with biogas: Potential and constraints. <i>Renewable Energy</i> , 2019, 134, 194-214.	4.3	140

#	ARTICLE	IF	CITATIONS
37	Life cycle environmental impact comparison of solid oxide fuel cells fueled by natural gas, hydrogen, ammonia and methanol for combined heat and power generation. International Journal of Hydrogen Energy, 2020, 45, 3670-3685.	3.8	74
38	Recent Progress with Pincer Transition Metal Catalysts for Sustainability. Catalysts, 2020, 10, 773.	1.6	71
39	Electricity Generation from Ammonia in Landfill Leachate by an Alkaline Membrane Fuel Cell Based on Precious-Metal-Free Electrodes. ACS Sustainable Chemistry and Engineering, 2020, 8, 12817-12824.	3.2	20
40	Synergistic Effect of Fe Doping and Plasmonic Au Nanoparticles on $W_{18}O_{49}$ Nanorods for Enhancing Photoelectrochemical Nitrogen Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 12321-12330.	3.2	43
41	Carbon-free sustainable energy technology: Direct ammonia fuel cells. Journal of Power Sources, 2020, 476, 228454.	4.0	61
42	Alternative Fuels for Internal Combustion Engines. Energies, 2020, 13, 4086.	1.6	62
43	<i>Operando</i> Stability of Platinum Electrocatalysts in Ammonia Oxidation Reactions. ACS Catalysis, 2020, 10, 11674-11684.	5.5	36
44	Ammonia as Effective Hydrogen Storage: A Review on Production, Storage and Utilization. Energies, 2020, 13, 3062.	1.6	279
45	Earth Abundant Metals as Cost Effective Alternatives in Photocatalytic Applications: A Review. Advanced Materials Research, 0, 1158, 133-146.	0.3	0
46	Electrochemical Strategy for Hydrazine Synthesis: Development and Overpotential Analysis of Methods for Oxidative $N-N$ Coupling of an Ammonia Surrogate. Journal of the American Chemical Society, 2020, 142, 12349-12356.	6.6	51
47	Ternary PtIrNi Catalysts for Efficient Electrochemical Ammonia Oxidation. ACS Catalysis, 2020, 10, 3945-3957.	5.5	104
48	Ammonia Borane: An Extensively Studied, Though Not Yet Implemented, Hydrogen Carrier. Energies, 2020, 13, 3071.	1.6	56
49	Aqueous Ammonia Wetting of Gas-Diffusion Media for Electrochemical Cells. Journal of the Electrochemical Society, 2020, 167, 104507.	1.3	10
50	Scaling the production of renewable ammonia: A techno-economic optimization applied in regions with high insolation. Journal of Cleaner Production, 2020, 271, 121627.	4.6	65
51	Thermodynamic Analysis of Solid Oxide Fuel Cell Integrated System Fuelled by Ammonia from Struvite Precipitation Process. Fuel Cells, 2020, 20, 143-157.	1.5	9
52	A review of ammonia as a compression ignition engine fuel. International Journal of Hydrogen Energy, 2020, 45, 7098-7118.	3.8	388
53	The Potential Role of Ammonia as Marine Fuel—Based on Energy Systems Modeling and Multi-Criteria Decision Analysis. Sustainability, 2020, 12, 3265.	1.6	118
54	Hydrazine Formation via Coupling of a Nickel(III)- NH_2 Radical. Angewandte Chemie - International Edition, 2021, 60, 4009-4013.	7.2	18

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55	Hydrazine Formation via Coupling of a Nickel(III)â€“NH ₂ Radical. <i>Angewandte Chemie</i> , 2021, 133, 4055-4059.	1.6	3
56	Alkaline membrane fuel cells: anion exchange membranes and fuels. <i>Sustainable Energy and Fuels</i> , 2021, 5, 604-637.	2.5	163
57	Recent progress in ammonia fuel cells and their potential applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 727-752.	5.2	177
58	An experimental investigation of the performance, emission and combustion stability of compression ignition engine powered by diesel and ammonia solution (NH ₄ OH). <i>International Journal of Engine Research</i> , 2021, 22, 2639-2653.	1.4	24
59	Harnessing Photoelectrochemistry for Wastewater Nitrate Treatment Coupled with Resource Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3688-3701.	3.2	15
60	Challenges in the use of hydrogen for maritime applications. <i>Energy and Environmental Science</i> , 2021, 14, 815-843.	15.6	159
61	Green ammonia as a spatial energy vector: a review. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2814-2839.	2.5	126
62	Review on Ammonia as a Potential Fuel: From Synthesis to Economics. <i>Energy & Fuels</i> , 2021, 35, 6964-7029.	2.5	403
63	Renewable ammonia for sustainable energy and agriculture: vision and systems engineering opportunities. <i>Current Opinion in Chemical Engineering</i> , 2021, 31, 100667.	3.8	63
64	A New Pd Doped Proton Conducting Perovskite Oxide with Multiple Functionalities for Efficient and Stable Power Generation from Ammonia at Reduced Temperatures. <i>Advanced Energy Materials</i> , 2021, 11, 2003916.	10.2	53
65	Fuzzy Optimization for the Remediation of Ammonia: A Case Study Based on Electrochemical Oxidation. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2986.	1.2	5
66	A High-Performance Gas-Fed Direct Ammonia Hydroxide Exchange Membrane Fuel Cell. <i>ACS Energy Letters</i> , 2021, 6, 1996-2002.	8.8	22
67	Nanoarray Structures for Artificial Photosynthesis. <i>Small</i> , 2021, 17, e2006530.	5.2	32
68	Emerging Materials and Methods toward Ammoniaâ€“Based Energy Storage and Conversion. <i>Advanced Materials</i> , 2021, 33, e2005721.	11.1	137
69	The Position of Ammonia in Decarbonising Maritime Industry: An Overview and Perspectives: Part I. <i>Johnson Matthey Technology Review</i> , 2021, 65, 275-290.	0.5	19
70	Evaluation of ((La _{0.60} Sr _{0.40}) _{0.95} Co _{0.20} Fe _{0.80} O _{3-x})-Ag Composite Anode for Direct Ammonia Solid Oxide Fuel Cells and Effect of Pd Impregnation on the Electrochemical Performance. <i>Solids</i> , 2021, 2, 177-191.	1.1	5
71	Review on the Safe Use of Ammonia Fuel Cells in the Maritime Industry. <i>Energies</i> , 2021, 14, 3023.	1.6	46
72	Scaling up Metal Hydrides for Real-Scale Applications: Achievements, Challenges and Outlook. <i>Inorganics</i> , 2021, 9, 37.	1.2	4

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73	Ni- and Cu-co-Intercalated Layered Manganese Oxide for Highly Efficient Electro-Oxidation of Ammonia Selective to Nitrogen. ACS Applied Materials & Interfaces, 2021, 13, 28098-28107.	4.0	28
74	Emerging artificial nitrogen cycle processes through novel electrochemical and photochemical synthesis. Materials Today, 2021, 46, 212-233.	8.3	104
75	H ₂ production via ammonia decomposition in a catalytic membrane reactor. Fuel Processing Technology, 2021, 216, 106772.	3.7	66
76	A Comprehensive Review on the Recent Development of Ammonia as a Renewable Energy Carrier. Energies, 2021, 14, 3732.	1.6	50
77	Redox-Mediated Ambient Electrolytic Nitrogen Reduction for Hydrazine and Ammonia Generation. Angewandte Chemie, 2021, 133, 18869-18875.	1.6	3
78	The industrialization of hydrogen production and its use as fuel in transportation for net-zero emissions. , 2021, , .		1
79	Redox-Mediated Ambient Electrolytic Nitrogen Reduction for Hydrazine and Ammonia Generation. Angewandte Chemie - International Edition, 2021, 60, 18721-18727.	7.2	35
80	Assessment of ammonia as energy carrier in the use with reversible solid oxide cells. International Journal of Hydrogen Energy, 2021, 46, 30112-30123.	3.8	19
81	Shining photocatalysis by gold-based nanomaterials. Nano Energy, 2021, 88, 106306.	8.2	64
82	Bi-atom active sites embedded in a two-dimensional covalent organic framework for efficient nitrogen reduction reaction. Applied Surface Science, 2021, 563, 150352.	3.1	25
83	Progress of ship exhaust gas control technology. Science of the Total Environment, 2021, 799, 149437.	3.9	44
84	Outlook for ammonia as a sustainable transportation fuel. Sustainable Energy and Fuels, 2021, 5, 4830-4841.	2.5	36
85	Vacancy engineering of WO ₃ nanosheets for electrocatalytic NRR process – a first-principles study. Physical Chemistry Chemical Physics, 2021, 23, 16658-16663.	1.3	9
86	Solar Fuels. , 2017, , 223-259.		3
87	Direct ammonia fueled solid oxide fuel cells: A comprehensive review on challenges, opportunities and future outlooks. International Journal of Energy Technology, 2020, , 70-91.	0.3	8
88	The effect of anode degradation on energy demand and production efficiency of electrochemically precipitated struvite. Journal of Applied Electrochemistry, 2022, 52, 205-215.	1.5	6
89	Stable Ti ³⁺ Sites Derived from the TiO _x -P Layer Boost Cubic Fe ₂ O ₃ for Enhanced Photocatalytic N ₂ Reduction. ACS Sustainable Chemistry and Engineering, 2021, 9, 15331-15343.	3.2	9
90	Renewable Ammonia as an Energy Fuel for Ocean Exploration and Transportation. Marine Technology Society Journal, 2020, 54, 126-136.	0.3	5

#	ARTICLE	IF	CITATIONS
91	Photocatalytic hydrogen production using liquid phase plasma from ammonia water over metal ion-doped TiO ₂ photocatalysts. <i>Catalysis Today</i> , 2022, 397-399, 165-172.	2.2	11
92	Limitations of Ammonia as a Hydrogen Energy Carrier for the Transportation Sector. <i>ACS Energy Letters</i> , 2021, 6, 4390-4394.	8.8	115
93	Elucidating the inherent fouling tolerance of membrane contactors for ammonia recovery from wastewater. <i>Journal of Membrane Science</i> , 2022, 645, 120197.	4.1	11
94	Pathways of ammonia electrooxidation on nickel hydroxide anodes and an alternative route towards recycled fertilizers. <i>Green Chemistry</i> , 2022, 24, 1578-1589.	4.6	28
95	Nitrogen Fixation at the Edges of Boron Nitride Nanomaterials: Synergy of Doping. <i>Frontiers in Chemistry</i> , 2021, 9, 799903.	1.8	6
96	High electrocatalytical performance of FeCoNiCuPd high-entropy alloy for nitrogen reduction reaction. <i>Molecular Catalysis</i> , 2022, 519, 112141.	1.0	13
97	Electrofuels as emerging new green alternative fuel: A review of recent literature. <i>Energy Conversion and Management</i> , 2022, 254, 115213.	4.4	23
98	Development of Ammonia Fueled Solid Oxide Fuel Cells. <i>Ceramist</i> , 2021, 24, 368-385.	0.0	1
99	Ammonia eurefstics: Electrolytes for liquid energy storage and conversion at room temperature and ambient pressure. <i>Joule</i> , 2022, , .	11.7	0
100	A high-performance 75ÅW direct ammonia fuel cell stack. <i>Cell Reports Physical Science</i> , 2022, 3, 100829.	2.8	6
101	On the use of ammonia as a fuel – A perspective. <i>Fuel Communications</i> , 2022, 11, 100064.	2.0	43
102	Transforming wastewater ammonia to carbon free energy: Integrating fuel cell technology with ammonia stripping for direct power production. <i>Separation and Purification Technology</i> , 2022, 289, 120755.	3.9	6
103	Energy and Exergy Analysis of an Ammonia Fuel Cell Integrated System for Marine Vessels. <i>Energies</i> , 2022, 15, 3331.	1.6	21
104	Platinum nanoparticles loaded on pristine and boron oxide modified carbon nano-onions for enhanced ammonia electrooxidation in alkaline direct ammonia fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2022, 917, 116411.	1.9	11
105	Thermal Evaluation of a Novel Integrated System Based on Solid Oxide Fuel Cells and Combined Heat and Power Production Using Ammonia as Fuel. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6287.	1.3	10
106	Green Ammonia as a flexible hydro-electricity carrier for Nepal. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 1037, 012061.	0.2	1
107	Electrooxidation of ammonia on A-site deficient perovskite oxide La _{0.9} Ni _{0.6} Cu _{0.35} Fe _{0.05} O _{3-δ} for wastewater treatment. <i>Separation and Purification Technology</i> , 2022, 297, 121451.	3.9	13
108	The economics of power generation and energy storage via Solid Oxide Cell and ammonia. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 26827-26841.	3.8	4

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109	NH ₃ Prospects in Combustion Engines and Fuel Cells for Commercial Aviation by 2030. ACS Energy Letters, 2022, 7, 2557-2564.	8.8	18
110	Catalysts for electrochemical ammonia oxidation: Trend, challenge, and promise. Science China Materials, 2022, 65, 3334-3352.	3.5	13
111	Hydrogen production from urea in human urine using segregated systems. Water Research, 2022, 222, 118931.	5.3	5
112	Vacancy defect assisted enhanced nitrogen fixation in boron nitride nanomaterials. Applied Surface Science, 2022, 602, 154406.	3.1	3
113	Perovskite oxide LaCr _{0.25} Fe _{0.25} Co _{0.5} O _{3-δ} as an efficient non-noble cathode for direct ammonia fuel cells. Applied Catalysis B: Environmental, 2022, 319, 121919.	10.8	18
114	Outstanding energy reduction of nitrogen recovery by biohythane concept introduction by 3D-weaved anode network in microbial electrolysis cell. Resources, Conservation and Recycling, 2023, 188, 106644.	5.3	5
115	Direct Ammonia Fuel Cells. Johnson Matthey Technology Review, 2022, 66, 479-489.	0.5	1
116	Substituted polythiophene-based sensor for detection of ammonia in gaseous and aqueous environment. Journal of Materials Science, 2022, 57, 17870-17882.	1.7	1
117	Performance Characteristics of a Direct Ammonia Fuel Cell with an Anion Exchange Membrane. Energy & Fuels, 2022, 36, 13203-13211.	2.5	11
118	Ammonia Synthesis at Room Temperature and Atmospheric Pressure from N ₂ : A Boron Radical Approach. Angewandte Chemie, 0, , .	1.6	2
119	Ammonia Synthesis at Room Temperature and Atmospheric Pressure from N ₂ : A Boron Radical Approach. Angewandte Chemie - International Edition, 2023, 62, .	7.2	19
120	Lifecycle energy solution of the electric propulsion ship with Live-Life cycle assessment for clean maritime economy. Applied Energy, 2022, 328, 120174.	5.1	9
121	Electrocatalytic Ammonia Oxidation by a Low-Coordinate Copper Complex. Journal of the American Chemical Society, 2022, 144, 21136-21145.	6.6	22
122	Design of ammonia oxidation electrocatalysts for efficient direct ammonia fuel cells. EnergyChem, 2023, 5, 100093.	10.1	6
123	Adsorbents development for hydrogen cleanup from ammonia decomposition in a catalytic membrane reactor. Chemical Engineering Journal, 2023, 455, 140762.	6.6	3
124	Design and Analysis of an Offshore Wind Power to Ammonia Production System in Nova Scotia. Energies, 2022, 15, 9558.	1.6	1
125	Modeling direct ammonia anion-exchange membrane fuel cells. Journal of Power Sources, 2023, 558, 232616.	4.0	2
126	Modeling and Optimizing Anode Catalyst Layer for Direct Ammonia Fuel Cell. Energy Nexus, 2023, 9, 100170.	3.3	0

#	ARTICLE	IF	CITATIONS
128	Experimental Study on Flash Boiling of Ammonia Fuel Sprays – A Potential Alternative Fuel. , 0, , .		1
129	Development and performance evaluation of a passive direct ammonia fuel cell. Journal of Power Sources, 2023, 570, 233057.	4.0	6
130	Mechanical engineering advantages of a dual fuel diesel engine powered by diesel and aqueous ammonia blends. Fuel, 2023, 346, 128398.	3.4	8
131	Molten Salt Mg-Air Battery Improvement and Recharging. Minerals, Metals and Materials Series, 2023, , 171-179.	0.3	0
132	Ammonia production from syngas: Plant design and simulation. , 2023, , 381-399.		0
133	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.	3.8	3
134	A Reference Equation of State with an Associating Term for the Thermodynamic Properties of Ammonia. Journal of Physical and Chemical Reference Data, 2023, 52, .	1.9	4
135	Composition Engineering Opens an Avenue Toward Efficient and Sustainable Nitrogen Fixation. Energy and Environmental Materials, 2024, 7, .	7.3	5
136	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.	3.8	15
137	A techno-economic analysis of ammonia-fuelled powertrain systems for rail freight. Transportation Research, Part D: Transport and Environment, 2023, 119, 103739.	3.2	3
145	Ammonia as a carbon-free hydrogen carrier for fuel cells: a perspective. , 2023, 1, 332-342.		4
146	Advances and Perspectives of H ₂ Production from NH ₃ Decomposition in Membrane Reactors. Energy & Fuels, 2023, 37, 10775-10798.	2.5	1
148	Challenges and advancement in direct ammonia solid oxide fuel cells: a review. Inorganic Chemistry Frontiers, 2023, 10, 6176-6192.	3.0	2
150	High-entropy alloys for accessing hydrogen economy via sustainable production of fuels and direct application in fuel cells. Rare Metals, 2023, 42, 3553-3569.	3.6	4
156	Perspective Chapter: Methanol as a Fuel for Direct Methanol Fuel Cells (DMFCs) - Principles and Performance. , 0, , .		0
161	Ammonia and fuel cell technology. , 2024, , 373-389.		0
162	Hydrogen production from ammonia using sodium amide. , 2024, , 265-280.		0