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Sustainable ammonia production through process synthesis and global optimization

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#	Paper	IF	Citations
71	Biomass Based Sustainable Ammonia Production: Digestion vs Gasification. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9995-10007	8.3	24
70	AIChE Journal Special PSE issue on sustainable energy. <i>AIChE Journal</i> , <b>2019</b> , 65, e16630	3.6	1
69	Energy systems engineering - a guided tour. <i>BMC Chemical Engineering</i> , <b>2019</b> , 1,	3.5	9
68	A General Framework for Process Synthesis, Integration, and Intensification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 5950-5967	3.9	25
67	Energy Carrier Supply Chain Optimization: A Texas Case Study. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 1-6	0.6	8
66	Design standardization of unit operations for reducing the capital intensity and cost of small-scale chemical processes. <i>AIChE Journal</i> , <b>2020</b> , 66, e16802	3.6	7
65	Sustainable Process Intensification Using Building Blocks. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 17664-17679	8.3	14
64	Synthesis and design of sustainable integrated process, water treatment, and power generation networks. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 141, 107041	4	7
63	Achieving absolute sustainability across integrated industrial networks - a case study on the ammonia process. <i>Green Chemistry</i> , <b>2020</b> , 22, 6547-6559	10	6
62	Plasma-driven catalysis: green ammonia synthesis with intermittent electricity. <i>Green Chemistry</i> , <b>2020</b> , 22, 6258-6287	10	58
61	Energy and economic analysis of a hydrogen and ammonia co-generation system based on double chemical looping. <i>Chinese Journal of Chemical Engineering</i> , <b>2020</b> ,	3.2	2
60	Life Cycle Assessment for the Design of Chemical Processes, Products, and Supply Chains. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2020</b> , 11, 203-233	8.9	26
59	Sustainable production of ammonia fertilizers from biomass. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2020</b> , 14, 725-733	5.3	2
58	Ammonia, 4. Green Ammonia Production. <b>2020</b> , 1-20		5
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56	Towards greater sustainable development within current Mega-Methanol (MM) production. <i>Green Chemistry</i> , <b>2020</b> , 22, 4279-4294	10	12
55	Using hydrogen and ammonia for renewable energy storage: A geographically comprehensive techno-economic study. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 136, 106785	4	45

54	A Multiscale Energy Systems Engineering Approach for Renewable Power Generation and Storage Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 7706-7721	3.9	18
53	An integrated data-driven modeling & global optimization approach for multi-period nonlinear production planning problems. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 141, 107007	4	2
52	Renewable production of ammonia and nitric acid. <i>AIChE Journal</i> , <b>2020</b> , 66, e16947	3.6	12
51	Comparative Economic Analysis of Physical, Chemical, and Hybrid Absorption Processes for Carbon Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 2005-2012	3.9	17
50	Ammonia Production Technologies. <b>2021</b> , 41-83		11
49	Techno-Economic Aspects of Production, Storage and Distribution of Ammonia. <b>2021</b> , 191-207		2
48	A multi-scale energy systems engineering approach towards integrated multi-product network optimization. <i>Applied Energy</i> , <b>2021</b> , 281, 116020	10.7	9
47	Green ammonia as a spatial energy vector: a review. <i>Sustainable Energy and Fuels</i> ,	5.8	24
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45	Optimal Design of Sustainable Ammonia-Based Food-Energy-Water Systems with Nitrogen Management. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 2816-2834	8.3	2
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35	Microalgae and ammonia: A review on inter-relationship. <i>Fuel</i> , <b>2021</b> , 303, 121303	7.1	29
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23	Computer-Aided Process Intensification of Natural gas to Methanol Process. <i>AIChE Journal</i> ,	3.6	1
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20	Photo-assisted CO/CO <sub>2</sub> methanation over Ni/TiO <sub>2</sub> catalyst: experiment and density functional theory calculation. <i>ChemCatChem</i> ,	5.2	
19	Electrification of Catalytic Ammonia Production and Decomposition Reactions: From Resistance, Induction, and Dielectric Reactor Heating to Electrolysis. <i>ACS Applied Energy Materials</i> ,	6.1	0

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