

Jeehoon Han

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

1,983
citations

23
h-index

42
g-index

98
ext. papers

2,391
ext. citations

8.3
avg, IF

5.86
L-index

#	Paper	IF	Citations
96	Nonenzymatic sugar production from biomass using biomass-derived Valerolactone. <i>Science</i> , 2014 , 343, 277-80	33.3	519
95	A strategy for the simultaneous catalytic conversion of hemicellulose and cellulose from lignocellulosic biomass to liquid transportation fuels. <i>Green Chemistry</i> , 2014 , 16, 653-661	10	109
94	A lignocellulosic ethanol strategy via nonenzymatic sugar production: process synthesis and analysis. <i>Bioresource Technology</i> , 2015 , 182, 258-266	11	84
93	Design and operation of renewable energy sources based hydrogen supply system: Technology integration and optimization. <i>Renewable Energy</i> , 2017 , 103, 226-238	8.1	78
92	Strategic planning design of microalgae biomass-to-biodiesel supply chain network: Multi-period deterministic model. <i>Applied Energy</i> , 2015 , 154, 528-542	10.7	64
91	Development of a Scalable and Comprehensive Infrastructure Model for Carbon Dioxide Utilization and Disposal. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 6297-6315	3.9	48
90	Process systems engineering studies for the synthesis of catalytic biomass-to-fuels strategies. <i>Computers and Chemical Engineering</i> , 2015 , 81, 57-69	4	44
89	Modeling the operation of hydrogen supply networks considering facility location. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5328-5346	6.7	43
88	A multi-objective optimization model for sustainable electricity generation and CO2 mitigation (EGCM) infrastructure design considering economic profit and financial risk. <i>Applied Energy</i> , 2012 , 95, 186-195	10.7	42
87	Sustainable development of biorefineries: integrated assessment method for co-production pathways. <i>Energy and Environmental Science</i> , 2020 , 13, 2233-2242	35.4	41
86	Coproducing Value-Added Chemicals and Hydrogen with Electrocatalytic Glycerol Oxidation Technology: Experimental and Techno-Economic Investigations. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6626-6634	8.3	41
85	Bioalcohol production from acidogenic products via a two-step process: A case study of butyric acid to butanol. <i>Applied Energy</i> , 2019 , 252, 113482	10.7	37
84	A bio-based green process for catalytic adipic acid production from lignocellulosic biomass using cellulose and hemicellulose derived Valerolactone. <i>Energy Conversion and Management</i> , 2016 , 129, 75-80	10.6	37
83	Design under uncertainty of carbon capture and storage infrastructure considering cost, environmental impact, and preference on risk. <i>Applied Energy</i> , 2017 , 189, 725-738	10.7	36
82	Multi-objective optimization design of hydrogen infrastructures simultaneously considering economic cost, safety and CO2 emission. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 1427-1439	5.5	33
81	Multiperiod Stochastic Optimization Model for Carbon Capture and Storage Infrastructure under Uncertainty in CO2 Emissions, Product Prices, and Operating Costs. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11445-11457	3.9	32
80	Mathematical model to optimize design of integrated utility supply network and future global hydrogen supply network under demand uncertainty. <i>Applied Energy</i> , 2017 , 195, 257-267	10.7	28

79	System-level analysis and life cycle assessment of CO ₂ and fossil-based formic acid strategies. <i>Green Chemistry</i> , 2019 , 21, 3442-3455	10	26
78	An integrated strategy for catalytic co-production of jet fuel range alkenes, tetrahydrofurfuryl alcohol, and 1,2-pentanediol from lignocellulosic biomass. <i>Green Chemistry</i> , 2017 , 19, 5214-5229	10	25
77	Two-Stage Stochastic Programming Model for Planning CO ₂ Utilization and Disposal Infrastructure Considering the Uncertainty in the CO ₂ Emission. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13435-13443	3.9	25
76	Development of a scalable infrastructure model for planning electricity generation and CO ₂ mitigation strategies under mandated reduction of GHG emission. <i>Applied Energy</i> , 2011 , 88, 5056-5068	10.7	25
75	Design under uncertainty of carbon capture, utilization and storage infrastructure considering profit, environmental impact, and risk preference. <i>Applied Energy</i> , 2019 , 238, 34-44	10.7	24
74	Techno-economic analysis of methanol production from joint feedstock of coke oven gas and basic oxygen furnace gas from steel-making. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 75, 77-85	6.3	23
73	Process synthesis and analysis for catalytic conversion of lignocellulosic biomass to fuels: Separate conversion of cellulose and hemicellulose using 2-sec-butylphenol (SBP) solvent. <i>Applied Energy</i> , 2016 , 171, 483-490	10.7	22
72	Economic process design for separation of CO ₂ from the off-gas in ironmaking and steelmaking plants. <i>Energy</i> , 2015 , 88, 756-764	7.9	21
71	Food waste valorization to green energy vehicles: sustainability assessment. <i>Energy and Environmental Science</i> , 2021 , 14, 3651-3663	35.4	21
70	Catalytic production of biofuels (butene oligomers) and biochemicals (tetrahydrofurfuryl alcohol) from corn stover. <i>Bioresource Technology</i> , 2016 , 211, 360-6	11	20
69	A catalytic biofuel production strategy involving separate conversion of hemicellulose and cellulose using 2-sec-butylphenol (SBP) and lignin-derived (LD) alkylphenol solvents. <i>Bioresource Technology</i> , 2016 , 204, 1-8	11	19
68	Biorenewable Strategy for Catalytic ϵ -Caprolactam Production Using Cellulose- and Hemicellulose-Derived ϵ -Valerolactone. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1892-1898	8.3	18
67	Techno-economic and climate impact analysis of carbon utilization process for methanol production from blast furnace gas over Cu/ZnO/Al ₂ O ₃ catalyst. <i>Energy</i> , 2020 , 198, 117355	7.9	17
66	A Comprehensive Infrastructure Assessment Model for Carbon Capture and Storage Responding to Climate Change under Uncertainty. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 3805-3815	3.9	17
65	Process design and techno-economic evaluation for catalytic production of cellulosic ϵ -Valerolactone using lignin derived propyl guaiacol. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 52, 218-223	6.3	16
64	A Multiobjective Optimization Approach for CCS Infrastructure Considering Cost and Environmental Impact. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14145-14157	3.9	15
63	Simulation study of a strategy to produce gamma-valerolactone from ethyl levulinate. <i>Energy</i> , 2018 , 163, 986-991	7.9	15
62	Recent advances in valorization of organic municipal waste into energy using biorefinery approach, environment and economic analysis. <i>Bioresource Technology</i> , 2021 , 337, 125498	11	15

61	A preliminary infrastructure design to use fossil fuels with carbon capture and storage and renewable energy systems. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17321-17335	6.7	14
60	Process systems engineering studies for catalytic production of bio-based platform molecules from lignocellulosic biomass. <i>Energy Conversion and Management</i> , 2017 , 138, 511-517	10.6	13
59	A systematic process integration framework for the optimal design and techno-economic performance analysis of energy supply and CO2 mitigation strategies. <i>Applied Energy</i> , 2014 , 125, 136-146	10.7	12
58	Catalytic production of 1,4-pentanediol from corn stover. <i>Bioresource Technology</i> , 2017 , 245, 442-448	11	12
57	Optimal strategy for carbon capture and storage infrastructure: A review. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 975-984	2.8	12
56	Integrated process for electrocatalytic conversion of glycerol to chemicals and catalytic conversion of corn stover to fuels. <i>Energy Conversion and Management</i> , 2018 , 163, 180-186	10.6	11
55	Integrated hydrogen supply networks for waste biogas upgrading and hybrid carbon-hydrogen pinch analysis under hydrogen demand uncertainty. <i>Applied Thermal Engineering</i> , 2018 , 140, 386-397	5.8	11
54	Development of a Multiperiod Model for Planning CO2 Disposal and Utilization Infrastructure. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 2983-2996	3.9	11
53	Binary LLE for Propyl Vinyl Ether (PVE) + Water, Ternary LLE for PVE + Methanol or Ethanol + Water at 298.15 K, and VE and B at 293.15 K for the Mixture of PVE + Ethanol + 2,2,4-Trimethylpentane. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2395-2399	2.8	11
52	Development of an integrated network for utility supply and carbon dioxide mitigation systems: applicability of biodiesel production. <i>Journal of Cleaner Production</i> , 2019 , 232, 542-558	10.3	10
51	Multi-period stochastic mathematical model for the optimal design of integrated utility and hydrogen supply network under uncertainty in raw material prices. <i>Energy</i> , 2016 , 114, 418-430	7.9	10
50	Integrated process for simultaneous production of jet fuel range alkenes and N-methylformanilide using biomass-derived gamma-valerolactone. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 48, 173-179	6.3	9
49	Optimal design of shale gas supply chain network considering MPC-based pumping schedule of hydraulic fracturing in unconventional reservoirs. <i>Chemical Engineering Research and Design</i> , 2019 , 147, 412-429	5.5	9
48	Comprehensive analysis of two catalytic processes to produce formic acid from carbon dioxide. <i>Applied Energy</i> , 2020 , 264, 114711	10.7	9
47	Economic optimization of integrated network for utility supply and carbon dioxide mitigation with multi-site and multi-period demand uncertainties. <i>Applied Energy</i> , 2018 , 220, 723-734	10.7	9
46	Developing a Two-Stage Stochastic Programming Model for CO2 Disposal Planning under Uncertainty. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3368-3380	3.9	9
45	Enhancement of energy efficiency and economics of process designs for catalytic co-production of bioenergy and bio-based products from lignocellulosic biomass. <i>International Journal of Energy Research</i> , 2017 , 41, 1553-1562	4.5	8
44	Catalytic conversion of corn stover for γ-valerolactone production by two different solvent strategies: Techno-economic assessment. <i>Energy</i> , 2019 , 175, 546-553	7.9	8

43	Environmental analysis of bioethanol production strategies from corn stover via enzymatic and nonenzymatic sugar production. <i>Bioresource Technology</i> , 2021 , 328, 124808	11	8
42	Developing a Mathematical Modeling Framework of Carbon Dioxide Capture, Transport and Storage Networks. <i>Journal of Chemical Engineering of Japan</i> , 2012 , 45, 504-527	0.8	6
41	Evaluating the environmental impacts of formic acid production from CO ₂ : catalytic hydrogenation vs. electrocatalytic reduction. <i>Green Chemistry</i> ,	10	6
40	Integrated polylactic acid and biodiesel production from food waste: Process synthesis and economics. <i>Bioresource Technology</i> , 2022 , 343, 126119	11	6
39	Economic feasible strategy of cellulosic biofuels: Co-production of pentanediols. <i>Energy</i> , 2020 , 193, 116797	7.9	6
38	Economically feasible thermochemical process for methanol production from kenaf. <i>Energy</i> , 2021 , 230, 120729	7.9	6
37	Organic-waste-derived butyric acid-to-biodiesel supply-chain network: Strategic planning design using a deterministic snapshot model. <i>Journal of Environmental Management</i> , 2021 , 293, 112848	7.9	6
36	Economically feasible production of green methane from vegetable and fruit-rich food waste. <i>Energy</i> , 2021 , 235, 121397	7.9	6
35	Operating Optimization and Economic Evaluation of Multicomponent Gas Separation Process using Pressure Swing Adsorption and Membrane Process. <i>Korean Chemical Engineering Research</i> , 2015 , 53, 31-38		5
34	Lifecycle assessment of methanol production from blast furnace gas. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 61601-61607	5.1	5
33	Stochastic Approach to Optimize the Supply Chain Network of Microalga-Derived Biodiesel under Uncertain Diesel Demand. <i>Journal of Chemical Engineering of Japan</i> , 2020 , 53, 24-35	0.8	4
32	Renewable Butanol Production via Catalytic Routes. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	4
31	Catalytic syngas production from carbon dioxide of two emission source scenarios: techno-economic assessment. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 96, 213-218	6.3	4
30	Integrated strategy for concurrent production of furfuryl alcohol and glycerol oxygenates. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 73, 268-275	6.3	3
29	Technoeconomic Feasibility Study of Monoethanolamine-Based CO ₂ Capture System Deployment to be Retrofitted to an Existing Utility System in a Chemical Plant. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 18334-18344	3.9	3
28	Economically-feasible production of a nylon monomer using RANEY® catalysts. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 225-234	4.9	3
27	Electrochemical production of formic acid from carbon dioxide: A life cycle assessment study. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106130	6.8	3
26	Integrated strategy for N-methylformanilide production from carbon dioxide of flue gas in coal-fired power plant. <i>Energy Conversion and Management</i> , 2017 , 139, 135-139	10.6	2

25	Techno-economic analysis of food waste valorization for integrated production of polyhydroxyalkanoates and biofuels.. <i>Bioresource Technology</i> , 2022 , 348, 126796	11	2
24	A stochastic programming approach for the integrated network with utility supply and carbon dioxide mitigation systems in uncertain utility demand. <i>Energy Conversion and Management</i> , 2018 , 176, 299-308	10.6	2
23	Environmental analysis of methanol production from coke oven gas. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	2
22	Impact of uncertainty in technological cycle on circular economy: Bio-based jet fuel range alkenes and pentanediols production. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 104, 356-356	6.3	2
21	Supply chain management of butyric acid-derived butanol: Stochastic approach. <i>Applied Energy</i> , 2021 , 297, 117119	10.7	2
20	Waste-to-bioethanol supply chain network: A deterministic model. <i>Applied Energy</i> , 2021 , 300, 117381	10.7	2
19	Bio-based process for the catalytic production of ethyl levulinate from cellulose. <i>Applied Energy</i> , 2021 , 300, 117430	10.7	2
18	Process integration and economics of gamma-valerolactone using a cellulose-derived ethyl levulinate intermediate and ethanol solvent. <i>Energy</i> , 2022 , 239, 121964	7.9	2
17	Organic waste derived biodiesel supply chain network: Deterministic multi-period planning model. <i>Applied Energy</i> , 2022 , 305, 117847	10.7	2
16	Process evaluation and techno-economic analysis of biodiesel production from marine macroalgae <i>Codium tomentosum</i> .. <i>Bioresource Technology</i> , 2022 , 351, 126969	11	2
15	Techno-economic Feasibility Study for Catalytic Production of 1,2-Pentanediol from Bio-renewable Furfural. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 145-150	0.6	1
14	Synthesis of catalytic biomass-to-fuels strategies. <i>Computer Aided Chemical Engineering</i> , 2014 , 34, 615-6206		1
13	Development an Optimization Model for Green Supply Chains: Integration of CO2 Disposal and Renewable Energy Supply. <i>Computer Aided Chemical Engineering</i> , 2012 , 317-321	0.6	1
12	Energy-efficient thermal waste treatment process with no CO2 emission: A case study of waste tea bag. <i>Energy</i> , 2022 , 241, 122876	7.9	1
11	Development of a Deterministic Optimization Model for Design of an Integrated Utility and Hydrogen Supply Network. <i>Korean Chemical Engineering Research</i> , 2014 , 52, 603-612		1
10	Strategic Planning of Carbon Capture & Storage (CCS) Infrastructure Considering the Uncertainty in the Operating Cost and Carbon Tax. <i>Korean Chemical Engineering Research</i> , 2012 , 50, 471-478		1
9	A strategy for food waste-to-biofuels: Co-production of gasoline alternatives from volatile fatty acids. <i>Journal of Cleaner Production</i> , 2022 , 348, 131408	10.3	0
8	Climate variability and food waste treatment: Analysis for bioenergy sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 160, 112336	16.2	0

7	Economically-feasible greener transformation of gamma-valerolactone to nylon 6,6. <i>Biomass and Bioenergy</i> , 2022 , 162, 106503	5.3	o
6	Techno-economic analysis of biodiesel production from nonedible biooil using catalytic transesterification 2022 , 601-626		o
5	Optimal design under uncertainty of carbon capture, utilization, and sequestration network considering benefit, environmental impact, and preference on risk. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1585-1590	0.6	
4	Integrated Design Strategy for Optimization of Utility Supply and Carbon Utilization: Multiperiod Deterministic Model. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1567-1572	0.6	
3	Catalytic Production of Gamma-Valerolactone from Two Different Feedstocks. <i>Computer Aided Chemical Engineering</i> , 2018 , 295-300	0.6	
2	Environmental Analysis of Catalytic Adipic Acid Production Strategies from Two Different Lignocellulosic Biomasses. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 5888-5894	8.3	
1	Environmental analysis of methanol production from steel-making offgas. <i>Environmental Technology and Innovation</i> , 2022 , 102694	7	