

Wangyun

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,847
citations

331670

21
h-index

265206

42
g-index

61
all docs

61
docs citations

61
times ranked

2289
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Economical and Sustainable Production of Renewable Plastic: Integrative System-Level Analyses. <i>ChemSusChem</i> , 2022, 15, .	6.8	10
2	Development of Co ^{II} /Nb ^{IV} /CeO ₂ Catalyst for Hydrogen Production from Waste-Derived Synthesis Gas Using Techno-Economic and Environmental Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6289-6303.	6.7	10
3	Rethinking of conventional Gas-to-Liquid via dimethyl ether intermediate incorporating renewable energy against Power-to-Liquid. <i>Energy Conversion and Management</i> , 2022, 261, 115643.	9.2	10
4	System-level analyses for the production of 1,6-hexanediol from cellulose. <i>Energy</i> , 2021, 214, 118974.	8.8	15
5	Improving revenue from lignocellulosic biofuels: An integrated strategy for coproducing liquid transportation fuels and high value-added chemicals. <i>Fuel</i> , 2021, 287, 119369.	6.4	21
6	Simultaneous production of 1,6-hexanediol, furfural, and high-purity lignin from white birch: Process integration and techno-economic evaluation. <i>Bioresource Technology</i> , 2021, 331, 125009.	9.6	19
7	Integrated strategy for coproducing bioethanol and adipic acid from lignocellulosic biomass. <i>Journal of Cleaner Production</i> , 2021, 311, 127849.	9.3	16
8	Coproduction of butene oligomers and adipic acid from lignocellulosic biomass: Process design and evaluation. <i>Energy</i> , 2021, 235, 121278.	8.8	14
9	Techno-Economic Analysis and Life-Cycle Assessment for the Production of Hydrogen from Biogas. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2021, 32, 417-429.	0.6	3
10	Fluorine-containing polyimide/polysilsesquioxane carbon molecular sieve membranes and techno-economic evaluation thereof for C ₃ H ₆ /C ₃ H ₈ separation. <i>Journal of Membrane Science</i> , 2020, 598, 117660.	8.2	34
11	Economical process for the co-production of renewable polymers and value-added chemicals from lignocellulosic biomass. <i>Journal of Cleaner Production</i> , 2020, 276, 124237.	9.3	21
12	Technical and economic feasibility under uncertainty for methane dry reforming of coke oven gas as simultaneous H ₂ production and CO ₂ utilization. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 133, 110056.	16.4	29
13	Process synthesis and analysis of green plastic monomer production from cellulose. <i>Journal of Cleaner Production</i> , 2020, 277, 124072.	9.3	15
14	Process integration and optimization for economical production of commodity chemicals from lignocellulosic biomass. <i>Renewable Energy</i> , 2020, 162, 242-248.	8.9	26
15	Sustainable Production of Bioplastics from Lignocellulosic Biomass: Technoeconomic Analysis and Life-Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12419-12429.	6.7	64
16	Production of a sustainable and renewable biomass-derived monomer: conceptual process design and techno-economic analysis. <i>Green Chemistry</i> , 2020, 22, 7070-7079.	9.0	32
17	The economical production of functionalized Ashe juniper derived-biochar with high hazardous dye removal efficiency. <i>Industrial Crops and Products</i> , 2019, 137, 672-680.	5.2	29
18	Networked column compartment model for a tilted packed column with structured packing. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 789-799.	2.7	0

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19	Economic Analysis and Environmental Impact Assessment of Heat Pump-Assisted Distillation in a Gas Fractionation Unit. <i>Energies</i> , 2019, 12, 852.	3.1	14
20	Techno-economic optimization of the integration of an organic Rankine cycle into a molten carbonate fuel cell power plant. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 345-355.	2.7	11
21	Development and Optimization of the Biological Conversion of Ethane to Ethanol Using Whole-Cell Methanotrophs Possessing Methane Monooxygenase. <i>Molecules</i> , 2019, 24, 591.	3.8	9
22	An integrated strategy for the production of hydrocarbon fuels from lignocellulosic biomass. , 2019, , .		0
23	A new modeling approach for a CO ₂ capture process based on a blended amine solvent. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 61, 206-214.	4.4	14
24	Liquid holdup and pressure drop in packed column with structured packing under offshore conditions. <i>Chemical Engineering Science</i> , 2019, 195, 894-903.	3.8	11
25	One-dimensional modeling of a turbulent fluidized bed for a sorbent-based CO ₂ capture process with solidâ€“solid sensible heat exchange. <i>Energy</i> , 2019, 168, 1168-1180.	8.8	22
26	Toward biomass-derived renewable plastics: Production of 2,5-furandicarboxylic acid from fructose. <i>Science Advances</i> , 2018, 4, eaap9722.	10.3	276
27	Simulated moving bed adsorption process based on a polyethylenimine-silica sorbent for CO ₂ capture with sensible heat recovery. <i>Energy</i> , 2018, 150, 950-964.	8.8	39
28	Risk based 3-dimensional and multifloor plant layout optimization for liquefied natural gas (LNG) liquefaction process. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1053-1064.	2.7	10
29	Improving economics of lignocellulosic biofuels: An integrated strategy for coproducing 1,5-pentanediol and ethanol. <i>Applied Energy</i> , 2018, 213, 585-594.	10.1	60
30	A superstructure optimization approach for process synthesis under complex reaction networks. <i>Chemical Engineering Research and Design</i> , 2018, 137, 589-608.	5.6	18
31	An optimization-based design and analysis of a biomass derived hydrogen energy system. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1573-1578.	0.5	1
32	Delta-operator-based adaptive model predictive control and online optimization of a natural gas liquefaction process. <i>Chemical Engineering Science</i> , 2017, 162, 21-32.	3.8	12
33	Scenario-based approach for design and comparatively analysis of conventional and renewable energy systems. <i>Energy</i> , 2017, 129, 86-100.	8.8	14
34	Integration of carbon capture and sequestration and renewable resource technologies for sustainable energy supply in the transportation sector. <i>Energy Conversion and Management</i> , 2017, 143, 227-240.	9.2	17
35	Design and operation of renewable energy sources based hydrogen supply system: Technology integration and optimization. <i>Renewable Energy</i> , 2017, 103, 226-238.	8.9	121
36	An energy-efficient operation system for a natural gas liquefaction process: Development and application to a 100 ton-per-day plant. <i>Computers and Chemical Engineering</i> , 2017, 97, 208-219.	3.8	12

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37	Increasing the revenue from lignocellulosic biomass: Maximizing feedstock utilization. <i>Science Advances</i> , 2017, 3, e1603301.	10.3	352
38	A co-solvent hydrolysis strategy for the production of biofuels: process synthesis and techno-economic analysis. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 397-405.	3.7	38
39	Combined iterative learning and delta-operator adaptive linear quadratic Gaussian control of a commercial rapid thermal processing system. <i>Chemical Engineering Science</i> , 2017, 174, 146-156.	3.8	2
40	Thermal fractionation and catalytic upgrading of lignocellulosic biomass to biofuels: Process synthesis and analysis. <i>Renewable Energy</i> , 2017, 114, 357-366.	8.9	41
41	Bi-level optimizing operation of natural gas liquefaction process. <i>Computers and Chemical Engineering</i> , 2017, 96, 87-102.	3.8	17
42	A superstructure model of an isolated power supply system using renewable energy: Development and application to Jeju Island, Korea. <i>Renewable Energy</i> , 2016, 97, 177-188.	8.9	27
43	Effects of varying the ambient temperature on the performance of a single mixed refrigerant liquefaction process. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 958-968.	4.4	44
44	An engineered solvent system for sugar production from lignocellulosic biomass using biomass derived β -valerolactone. <i>Green Chemistry</i> , 2016, 18, 5756-5763.	9.0	55
45	An intermittently moving bed adsorption process for carbon dioxide capture. <i>International Journal of Greenhouse Gas Control</i> , 2016, 49, 34-46.	4.6	14
46	Current trends for the floating liquefied natural gas (FLNG) technologies. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 732-743.	2.7	61
47	Study on the Flare Load Estimation of the Deethanizer using Dynamic Simulation. <i>Korean Chemical Engineering Research</i> , 2014, 52, 613-619.	0.2	0
48	Extended Kalman filter with adaptive grid allocation for a fixed-bed adsorption process. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 886-891.	0.4	1
49	Nonlinear observer with adaptive grid allocation for a fixed-bed adsorption process. <i>Computers and Chemical Engineering</i> , 2012, 46, 69-77.	3.8	12
50	Identification of a multivariable delta-operator stochastic state-space model with distributed time delays: Application to a rapid thermal processor. <i>Computers and Chemical Engineering</i> , 2012, 40, 223-230.	3.8	8
51	Modeling and parameter estimation for a fixed-bed adsorption process for CO ₂ capture using zeolite 13X. <i>Separation and Purification Technology</i> , 2012, 85, 120-129.	7.9	61
52	Parameter estimation and dynamic control analysis of central carbon metabolism in <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 216-228.	2.6	9
53	Adaptive predictive collocation with a cubic spline interpolation function for convection-dominant fixed-bed processes: Application to a fixed-bed adsorption process. <i>Chemical Engineering Journal</i> , 2011, 166, 240-248.	12.7	20
54	Repetitive control and online optimization of Catofin propane process. <i>Computers and Chemical Engineering</i> , 2010, 34, 508-517.	3.8	25

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55	Combined run-to-run and LQG control of a 12-inch RTP equipment. Korean Journal of Chemical Engineering, 2009, 26, 1453-1460.	2.7	5
56	Synthesis of run-to-run repetitive control methods using finite impulse response models. Journal of Process Control, 2009, 19, 364-369.	3.3	3
57	Repetitive Control and Online Optimization of Catofin Propane Process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 273-278.	0.4	2
58	Model predictive control of condensate recycle process in a cogeneration power station: Controller design and numerical application. Korean Journal of Chemical Engineering, 2008, 25, 972-979.	2.7	4
59	Online optimization of CATOFIN process. , 2007, , .		0
60	Repetitive control of CATOFIN process. Korean Journal of Chemical Engineering, 2007, 24, 921-926.	2.7	17
61	Model Predictive Control of Condensate Recycle Process in a Cogeneration Power Station : I. Controller Design and Numerical Application. , 2006, , .		0