Wangyun

List of Publications by Year in descending order

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61	1,847	331670 21	265206 42
papers	citations	h-index	g-index

61	61	61	2289
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Increasing the revenue from lignocellulosic biomass: Maximizing feedstock utilization. Science Advances, 2017, 3, e1603301.	10.3	352
2	Toward biomass-derived renewable plastics: Production of 2,5-furandicarboxylic acid from fructose. Science Advances, 2018, 4, eaap9722.	10.3	276
3	Design and operation of renewable energy sources based hydrogen supply system: Technology integration and optimization. Renewable Energy, 2017, 103, 226-238.	8.9	121
4	Sustainable Production of Bioplastics from Lignocellulosic Biomass: Technoeconomic Analysis and Life-Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2020, 8, 12419-12429.	6.7	64
5	Modeling and parameter estimation for a fixed-bed adsorption process for CO2 capture using zeolite 13X. Separation and Purification Technology, 2012, 85, 120-129.	7.9	61
6	Current trends for the floating liquefied natural gas (FLNG) technologies. Korean Journal of Chemical Engineering, 2014, 31, 732-743.	2.7	61
7	Improving economics of lignocellulosic biofuels: An integrated strategy for coproducing 1,5-pentanediol and ethanol. Applied Energy, 2018, 213, 585-594.	10.1	60
8	An engineered solvent system for sugar production from lignocellulosic biomass using biomass derived Î³-valerolactone. Green Chemistry, 2016, 18, 5756-5763.	9.0	55
9	Effects of varying the ambient temperature on the performance of a single mixed refrigerant liquefaction process. Journal of Natural Gas Science and Engineering, 2016, 34, 958-968.	4.4	44
10	Thermal fractionation and catalytic upgrading of lignocellulosic biomass to biofuels: Process synthesis and analysis. Renewable Energy, 2017, 114, 357-366.	8.9	41
11	Simulated moving bed adsorption process based on a polyethylenimine-silica sorbent for CO2 capture with sensible heat recovery. Energy, 2018, 150, 950-964.	8.8	39
12	A co-solvent hydrolysis strategy for the production of biofuels: process synthesis and technoeconomic analysis. Reaction Chemistry and Engineering, 2017, 2, 397-405.	3.7	38
13	Fluorine-containing polyimide/polysilsesquioxane carbon molecular sieve membranes and techno-economic evaluation thereof for C3H6/C3H8 separation. Journal of Membrane Science, 2020, 598, 117660.	8.2	34
14	Production of a sustainable and renewable biomass-derived monomer: conceptual process design and techno-economic analysis. Green Chemistry, 2020, 22, 7070-7079.	9.0	32
15	The economical production of functionalized Ashe juniper derived-biochar with high hazardous dye removal efficiency. Industrial Crops and Products, 2019, 137, 672-680.	5.2	29
16	Technical and economic feasibility under uncertainty for methane dry reforming of coke oven gas as simultaneous H2 production and CO2 utilization. Renewable and Sustainable Energy Reviews, 2020, 133, 110056.	16.4	29
17	A superstructure model of an isolated power supply system using renewable energy: Development and application to Jeju Island, Korea. Renewable Energy, 2016, 97, 177-188.	8.9	27
18	Process integration and optimization for economical production of commodity chemicals from lignocellulosic biomass. Renewable Energy, 2020, 162, 242-248.	8.9	26

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19	Repetitive control and online optimization of Catofin propane process. Computers and Chemical Engineering, 2010, 34, 508-517.	3.8	25
20	One-dimensional modeling of a turbulent fluidized bed for a sorbent-based CO2 capture process with solidâ€“solid sensible heat exchange. Energy, 2019, 168, 1168-1180.	8.8	22
21	Economical process for the co-production of renewable polymers and value-added chemicals from lignocellulosic biomass. Journal of Cleaner Production, 2020, 276, 124237.	9.3	21
22	Improving revenue from lignocellulosic biofuels: An integrated strategy for coproducing liquid transportation fuels and high value-added chemicals. Fuel, 2021, 287, 119369.	6.4	21
23	Adaptive predictive collocation with a cubic spline interpolation function for convection-dominant fixed-bed processes: Application to a fixed-bed adsorption process. Chemical Engineering Journal, 2011, 166, 240-248.	12.7	20
24	Simultaneous production of 1,6-hexanediol, furfural, and high-purity lignin from white birch: Process integration and techno-economic evaluation. Bioresource Technology, 2021, 331, 125009.	9.6	19
25	A superstructure optimization approach for process synthesis under complex reaction networks. Chemical Engineering Research and Design, 2018, 137, 589-608.	5.6	18
26	Repetitive control of CATOFIN process. Korean Journal of Chemical Engineering, 2007, 24, 921-926.	2.7	17
27	Integration of carbon capture and sequestration and renewable resource technologies for sustainable energy supply in the transportation sector. Energy Conversion and Management, 2017, 143, 227-240.	9.2	17
28	Bi-level optimizing operation of natural gas liquefaction process. Computers and Chemical Engineering, 2017, 96, 87-102.	3.8	17
29	Integrated strategy for coproducing bioethanol and adipic acid from lignocellulosic biomass. Journal of Cleaner Production, 2021, 311, 127849.	9.3	16
30	Process synthesis and analysis of green plastic monomer production from cellulose. Journal of Cleaner Production, 2020, 277, 124072.	9.3	15
31	System-level analyses for the production of 1,6-hexanediol from cellulose. Energy, 2021, 214, 118974.	8.8	15
32	An intermittently moving bed adsorption process for carbon dioxide capture. International Journal of Greenhouse Gas Control, 2016, 49, 34-46.	4.6	14
33	Scenario-based approach for design and comparatively analysis of conventional and renewable energy systems. Energy, 2017, 129, 86-100.	8.8	14
34	Economic Analysis and Environmental Impact Assessment of Heat Pump-Assisted Distillation in a Gas Fractionation Unit. Energies, 2019, 12, 852.	3.1	14
35	A new modeling approach for a CO2 capture process based on a blended amine solvent. Journal of Natural Gas Science and Engineering, 2019, 61, 206-214.	4.4	14
36	Coproduction of butene oligomers and adipic acid from lignocellulosic biomass: Process design and evaluation. Energy, 2021, 235, 121278.	8.8	14

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37	Nonlinear observer with adaptive grid allocation for a fixed-bed adsorption process. Computers and Chemical Engineering, 2012, 46, 69-77.	3.8	12
38	Delta-operator-based adaptive model predictive control and online optimization of a natural gas liquefaction process. Chemical Engineering Science, 2017, 162, 21-32.	3.8	12
39	An energy-efficient operation system for a natural gas liquefaction process: Development and application to a 100 ton-per-day plant. Computers and Chemical Engineering, 2017, 97, 208-219.	3.8	12
40	Techno-economic optimization of the integration of an organic Rankine cycle into a molten carbonate fuel cell power plant. Korean Journal of Chemical Engineering, 2019, 36, 345-355.	2.7	11
41	Liquid holdup and pressure drop in packed column with structured packing under offshore conditions. Chemical Engineering Science, 2019, 195, 894-903.	3.8	11
42	Risk based 3-dimensional and multifloor plant layout optimization for liquefied natural gas (LNG) liquefaction process. Korean Journal of Chemical Engineering, 2018, 35, 1053-1064.	2.7	10
43	Toward Economical and Sustainable Production of Renewable Plastic: Integrative Systemâ€Level Analyses. ChemSusChem, 2022, 15, .	6.8	10
44	Development of Coâ€“Nbâ€“CeO₂ Catalyst for Hydrogen Production from Waste-Derived Synthesis Gas Using Techno-Economic and Environmental Assessment. ACS Sustainable Chemistry and Engineering, 2022, 10, 6289-6303.	6.7	10
45	Rethinking of conventional Gas-to-Liquid via dimethyl ether intermediate incorporating renewable energy against Power-to-Liquid. Energy Conversion and Management, 2022, 261, 115643.	9.2	10
46	Parameter estimation and dynamic control analysis of central carbon metabolism in Escherichia coli. Biotechnology and Bioprocess Engineering, 2011, 16, 216-228.	2.6	9
47	Development and Optimization of the Biological Conversion of Ethane to Ethanol Using Whole-Cell Methanotrophs Possessing Methane Monooxygenase. Molecules, 2019, 24, 591.	3.8	9
48	Identification of a multivariable delta-operator stochastic state-space model with distributed time delays: Application to a rapid thermal processor. Computers and Chemical Engineering, 2012, 40, 223-230.	3.8	8
49	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
50	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
51	Synthesis of run-to-run repetitive control methods using finite impulse response models. Journal of Process Control, 2009, 19, 364-369.	3.3	3
52	Techno-Economic Analysis and Life-Cycle Assessment for the Production of Hydrogen from Biogas. Transactions of the Korean Hydrogen and New Energy Society, 2021, 32, 417-429.	0.6	3
53	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
54	Combined iterative learning and delta-operator adaptive linear quadratic Gaussian control of a commercial rapid thermal processing system. Chemical Engineering Science, 2017, 174, 146-156.	3.8	2

#	ARTICLE	IF	CITATIONS
55	Extended Kalman filter with adaptive grid allocation for a fixed-bed adsorption process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 886-891.	0.4	1
56	An optimization-based design and analysis of a biomass derived hydrogen energy system. Computer Aided Chemical Engineering, 2018, 44, 1573-1578.	0.5	1
57	Model Predictive Control of Condensate Recycle Process in a Cogeneration Power Station : I. Controller Design and Numerical Application. , 2006, , .		0
58	Online optimization of CATOFIN process. , 2007, , .		0
59	Networked column compartment model for a tilted packed column with structured packing. Korean Journal of Chemical Engineering, 2019, 36, 789-799.	2.7	0
60	An integrated strategy for the production of hydrocarbon fuels from lignocellulosic biomass. , 2019, , .		0
61	Study on the Flare Load Estimation of the Deethanizer using Dynamic Simulation. Korean Chemical Engineering Research, 2014, 52, 613-619.	0.2	0