Moonyong Lee

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Biogas upgrading using ionic liquid [Bmim][PF6] followed by thermal-plasma-assisted renewable hydrogen and solid carbon production. International Journal of Hydrogen Energy, 2022, 47, 42075-42083.	3.8	9
2	State-of-the-art assessment of natural gas liquids recovery processes: Techno-economic evaluation, policy implications, open issues, and the way forward. Energy, 2022, 238, 121684.	4.5	18
3	Neural network-inspired performance enhancement of synthetic natural gas liquefaction plant with different minimum approach temperatures. Fuel, 2022, 308, 121858.	3.4	9
4	Carbon-dioxide-precooled hydrogen liquefaction process: An innovative approach for performance enhancement–Energy, exergy, and economic perspectives. Energy Conversion and Management, 2022, 251, 114947.	4.4	38
5	State-of-the-art assessment of cryogenic technologies for biogas upgrading: Energy, economic, and environmental perspectives. Renewable and Sustainable Energy Reviews, 2022, 154, 111826.	8.2	29
6	Assessment of working fluids, thermal resources and cooling utilities for Organic Rankine Cycles: State-of-the-art comparison, challenges, commercial status, and future prospects. Energy Conversion and Management, 2022, 252, 115055.	4.4	48
7	Valorization of algal cells for biomass and bioenergy production from wastewater: Sustainable strategies, challenges, and techno-economic limitations. Renewable and Sustainable Energy Reviews, 2022, 157, 112024.	8.2	28
8	State-of-the-art process simulations and techno-economic assessments of ionic liquid-based biogas upgrading techniques: Challenges and prospects. Fuel, 2022, 314, 123064.	3.4	29
9	Performance enhancement of hydrogen liquefaction process via absorption refrigeration and organic Rankine cycle-assisted liquid air energy system. Energy Conversion and Management, 2022, 254, 115200.	4.4	26
10	Hydrogen enrichment by CO2 anti-sublimation integrated with triple mixed refrigerant-based liquid hydrogen production process. Journal of Cleaner Production, 2022, 341, 130745.	4.6	13
11	Harvesting biohydrogen from industrial wastewater: Production potential, pilot-scale bioreactors, commercialization status, techno-economics, and policy analysis. Journal of Cleaner Production, 2022, 340, 130809.	4.6	33
12	Intelligent Human–Machine Interface: An Agile Operation and Decision Support for an ANAMMOX SBR System at a Pilot-Scale Wastewater Treatment Plant. IEEE Transactions on Industrial Informatics, 2022, 18, 6224-6232.	7.2	8
13	Solar photo-oxidation of recalcitrant industrial wastewater: a review. Environmental Chemistry Letters, 2022, 20, 1839-1862.	8.3	49
14	Reclamation of Halon 1301 using industrial-scale heat-pump-assisted batch distillation: Design, simulation, and experiment. International Journal of Refrigeration, 2022, 138, 31-39.	1.8	1
15	Hydrofluoroolefin-based mixed refrigerant for enhanced performance of hydrogen liquefaction process. International Journal of Hydrogen Energy, 2022, 47, 41648-41662.	3.8	13
16	Intensified and hybrid distillation technologies for production of high value-added products from lignocellulosic biomass. , 2022, , 197-229.		1
17	Thermodynamic, economic, and emissions assessment of integrated power to methanol concept with membrane-based biogas up-gradation and plasma electrolysis. Journal of Cleaner Production, 2022, 363, 132367.	4.6	10
18	Exploitation of distillation for energy-efficient and cost-effective environmentally benign process of waste solvents recovery from semiconductor industry. Science of the Total Environment, 2022, 841, 156743.	3.9	7

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19	Energy saving anammox technology-based nitrogen removal and bioenergy recovery from wastewater: Inhibition mechanisms, state-of-the-art control strategies, and prospects. Renewable and Sustainable Energy Reviews, 2021, 135, 110126.	8.2	89
20	Redox-additive electrolyte–driven enhancement of the electrochemical energy storage performance of asymmetric Co3O4//carbon nano-onions supercapacitors. Energy, 2021, 218, 119436.	4.5	44
21	Single mixed refrigerant LNG process: Investigation of improvement potential, operational optimization, and real potential for further improvements. Journal of Cleaner Production, 2021, 284, 125379.	4.6	23
22	Introduction to Particle Swarm Optimization and Its Paradigms: A Bibliographic Survey. Studies in Big Data, 2021, , 105-124.	0.8	1
23	Biogas upgrading through blends of deep eutectic solvents and monoethanol amine: 4 E analysis (energy, exergy, environmental, and economic). Green Chemistry, 2021, 23, 6076-6089.	4.6	14
24	Novel Hybrid Reactive Distillation with Extraction and Distillation Processes for Furfural Production from an Actual Xylose Solution. Energies, 2021, 14, 1152.	1.6	18
25	Sustainable Bio-Energy Production in Microbial Fuel Cell Using MnO ₂ Nanoparticle-Decorated Hollow Carbon Nanofibers as Active Cathode Materials. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 127-135.	0.1	5
26	Metal–organic frameworks for biogas upgrading: Recent advancements, challenges, and future recommendations. Applied Materials Today, 2021, 22, 100925.	2.3	16
27	Desulfurization scrubbing in a squared spray column for a 720 kW marine diesel engine: Design, construction, simulation, and experiment. Chemical Engineering and Processing: Process Intensification, 2021, 161, 108317.	1.8	5
28	Determination of Kinetic and Thermodynamic Parameters of Pyrolysis of Coal and Sugarcane Bagasse Blends Pretreated by Ionic Liquid: A Step towards Optimization of Energy Systems. Energies, 2021, 14, 2544.	1.6	6
29	Design and Energy Analysis of a Solar Desiccant Evaporative Cooling System with Built-In Daily Energy Storage. Energies, 2021, 14, 2429.	1.6	7
30	Methoxyâ€methylheptane as a cleaner fuel additive: An energy―and costâ€efficient enhancement for separation and purification units. Energy Science and Engineering, 2021, 9, 1632-1646.	1.9	1
31	Process Systems Engineering Evaluation of Prospective Working Fluids for Organic Rankine Cycles Facilitated by Biogas Combustion Flue Gases. Frontiers in Energy Research, 2021, 9, .	1.2	2
32	Direct Analytical Modeling for Optimal, On-Design Performance of Ejector for Simulating Heat-Driven Systems. Energies, 2021, 14, 2819.	1.6	4
33	Refining and Reuse of Waste Lube Oil in SI Engines: A Novel Approach for a Sustainable Environment. Energies, 2021, 14, 2937.	1.6	10
34	Energy-efficient and cost-effective alternative separation techniques for 2-methoxyethanol–toluene azeotropic mixture: Design and control studies. Chemical Engineering and Processing: Process Intensification, 2021, 163, 108376.	1.8	4
35	Advanced predicting technique for optimal operation of wastewater treatment process: A ProActive scheduling approach. Journal of Cleaner Production, 2021, 303, 126968.	4.6	2
36	Novel Heat-Integrated Hybrid Distillation and Adsorption Process for Coproduction of Cellulosic Ethanol, Heat, and Electricity from Actual Lignocellulosic Fermentation Broth. Energies, 2021, 14, 3377.	1.6	3

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37	Availability, versatility, and viability of feedstocks for hydrogen production: Product space perspective. Renewable and Sustainable Energy Reviews, 2021, 145, 110843.	8.2	57
38	Response Surface Methodology Routed Optimization of Performance of Hydroxy Gas Enriched Diesel Fuel in Compression Ignition Engines. Processes, 2021, 9, 1355.	1.3	7
39	Fermentation-based nanoparticle systems for sustainable conversion of black-liquor into biohydrogen. Journal of Cleaner Production, 2021, 309, 127349.	4.6	56
40	Recent Approaches for the Production of High Value-Added Biofuels from Gelatinous Wastewater. Energies, 2021, 14, 4936.	1.6	13
41	Developing machine learning models for relative humidity prediction in air-based energy systems and environmental management applications. Journal of Environmental Management, 2021, 292, 112736.	3.8	12
42	Synthesis of biodiesel from non-edible (Brachychiton populneus) oil in the presence of nickel oxide nanocatalyst: Parametric and optimisation studies. Chemosphere, 2021, 278, 130469.	4.2	71
43	Teaching-learning self-study approach for optimal retrofitting of dual mixed refrigerant LNG process: Energy and exergy perspective. Applied Energy, 2021, 298, 117187.	5.1	23
44	Chemically synthesized copper sulfide nanoflakes on reduced graphene oxide for asymmetric supercapacitors. Journal of Industrial and Engineering Chemistry, 2021, 101, 423-429.	2.9	15
45	Renewable LNG production: Biogas upgrading through CO2 solidification integrated with single-loop mixed refrigerant biomethane liquefaction process. Energy Conversion and Management, 2021, 243, 114363.	4.4	18
46	100% saturated liquid hydrogen production: Mixed-refrigerant cascaded process with two-stage ortho-to-para hydrogen conversion. Energy Conversion and Management, 2021, 246, 114659.	4.4	36
47	Dual production of hydrogen and biochar from industrial effluent containing phenolic compounds. Fuel, 2021, 301, 121087.	3.4	35
48	Robustness enhancement of biomass steam gasification thermodynamic models for biohydrogen production: Introducing new correction factors. Journal of Cleaner Production, 2021, 321, 128954.	4.6	15
49	Performance improvement potential of harnessing LNG regasification for hydrogen liquefaction process: Energy and exergy perspectives. Applied Energy, 2021, 301, 117471.	5.1	33
50	Auto-Tuning of Identified Highly Sensitive Parameters for ANAMMOX System: Advanced Modeling Approach. IEEE Transactions on Industrial Informatics, 2021, 17, 7238-7245.	7.2	5
51	Improvement of marine carbon capture onboard diesel fueled ships. Chemical Engineering and Processing: Process Intensification, 2021, 168, 108535.	1.8	22
52	Sustainable economic growth and export diversification potential for Asian LNG-exporting countries: LNG–petrochemical nexus development using product space model. Energy, 2021, 236, 121334.	4.5	5
53	Development of Smart AnAmmOx System and Its Agile Operation and Decision Support for Pilot-Scale WWTP. , 2021, , 423-454.		0
54	Weed colonizationâ€based performance improvement opportunities in dualâ€mixed refrigerant natural gas liquefaction process. Energy Science and Engineering, 2021, 9, 297-312.	1.9	8

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55	Pressure Swing-Based Reactive Distillation and Dividing Wall Column for Improving Manufacture of Propylene Glycol Monomethyl Ether Acetate. Energies, 2021, 14, 7416.	1.6	0
56	Design of Simplified Decoupling Control System of Pulsed MIG Welding Process for Aluminum Alloy. Advances in Intelligent Systems and Computing, 2021, , 364-374.	0.5	0
57	Two-phase expander refrigeration cycles with ethane–nitrogen: A cost-efficient alternative LNG processes for offshore applications. Journal of Cleaner Production, 2020, 248, 119189.	4.6	18
58	Gas–liquid dual-expander natural gas liquefaction process with confirmation of biogeography-based energy and cost savings. Applied Thermal Engineering, 2020, 166, 114643.	3.0	11
59	Purification step enhancement of the 2,3-butanediol production process through minimization of high pressure steam consumption. Chemical Engineering Research and Design, 2020, 153, 697-708.	2.7	8
60	Integrated biomethane liquefaction using exergy from the discharging end of a liquid air energy storage system. Applied Energy, 2020, 260, 114260.	5.1	42
61	Biogas to liquefied biomethane: Assessment of 3P's–Production, processing, and prospects. Renewable and Sustainable Energy Reviews, 2020, 119, 109561.	8.2	51
62	Membrane-Assisted Removal of Hydrogen and Nitrogen from Synthetic Natural Gas for Energy-Efficient Liquefaction. Energies, 2020, 13, 5023.	1.6	10
63	Growth of 2D nanoflakes from 1D long leaf arrays: Electrochemical influence of copper and nickel co-substituted cobalt oxide. Journal of Energy Storage, 2020, 32, 101871.	3.9	22
64	Advanced and Intensified Seawater Flue Gas Desulfurization Processes: Recent Developments and Improvements. Energies, 2020, 13, 5917.	1.6	7
65	Performance Enhancement of Nitrogen Dual Expander and Single Mixed Refrigerant LNG Processes Using Jaya Optimization Approach. Energies, 2020, 13, 3278.	1.6	12
66	Purification of R-12 for refrigerant reclamation using existing industrial-scale batch distillation: design, optimization, simulation, and experimental studies. Korean Journal of Chemical Engineering, 2020, 37, 1823-1828.	1.2	2
67	Energy Saving through Efficient BOG Prediction and Impact of Static Boil-off-Rate in Full Containment-Type LNG Storage Tank. Energies, 2020, 13, 5578.	1.6	12
68	Shuffled Complex Evolution-Based Performance Enhancement and Analysis of Cascade Liquefaction Process for Large-Scale LNG Production. Energies, 2020, 13, 2511.	1.6	13
69	Simultaneous capture of acid gases from natural gas adopting ionic liquids: Challenges, recent developments, and prospects. Renewable and Sustainable Energy Reviews, 2020, 123, 109771.	8.2	70
70	Impact of mixed refrigerant selection on energy and exergy performance of natural gas liquefaction processes. Energy, 2020, 199, 117378.	4.5	38
71	HETP measurement using industrial-scale batch distillation. Chemical Engineering and Processing: Process Intensification, 2020, 148, 107800.	1.8	4
72	Electrical-driven self-heat recuperative pressure-swing azeotropic distillation to minimize process cost and CO2 emission: Process electrification and simultaneous optimization. Energy, 2020, 195, 116998.	4.5	31

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73	Single-Solution-Based Vortex Search Strategy for Optimal Design of Offshore and Onshore Natural Gas Liquefaction Processes. Energies, 2020, 13, 1732.	1.6	19
74	Dual-effect single-mixed refrigeration cycle: An innovative alternative process for energy-efficient and cost-effective natural gas liquefaction. Applied Energy, 2020, 268, 115022.	5.1	44
75	Simulation study of deep eutectic solvent-based biogas upgrading process integrated with single mixed refrigerant biomethane liquefaction. Biofuel Research Journal, 2020, 7, 1245-1255.	7.2	33
76	Investigation of improvement potential of Modified Single Mixed Refrigerant (MSMR) LNG process in terms of avoidable and unavoidable exergy destruction. , 2020, , .		3
77	Fractional order Modeling and Control of a Quadruple-tank Process. , 2020, , .		3
78	Reactive Pressure-Swing Distillation toward Sustainable Process of Novel Continuous Ultra-High-Purity Electronic-Grade Propylene Glycol Monomethyl Ether Acetate Manufacture. ACS Sustainable Chemistry and Engineering, 2019, 7, 18677-18689.	3.2	25
79	Self-recuperative high temperature co-electrolysis-based methanol production with vortex search-based exergy efficiency enhancement. Journal of Cleaner Production, 2019, 239, 118029.	4.6	17
80	Design method for the feasibility and technical evaluation of side-reactor column configurations. Chemical Engineering and Processing: Process Intensification, 2019, 144, 107648.	1.8	10
81	Process Design Alternatives for Producing Ultra-high-purity Electronic-Grade Propylene Clycol Monomethyl Ether Acetate. Industrial & Engineering Chemistry Research, 2019, 58, 2246-2257.	1.8	14
82	Novel reaction-hybrid-extraction-distillation process for furfuryl alcohol production from raw bio-furfural. Biochemical Engineering Journal, 2019, 148, 143-151.	1.8	3
83	Particle Swarm Optimization Methodology for Optimal Distillation Retrofit. Journal of Chemical Engineering of Japan, 2019, 52, 333-341.	0.3	9
84	Simulation study of biomethane liquefaction followed by biogas upgrading using an imidazolium-based cationic ionic liquid. Journal of Cleaner Production, 2019, 231, 953-962.	4.6	30
85	Comprehensive Review of Control and Operational Strategies for Partial Nitration/ANAMMOX System. Industrial & Engineering Chemistry Research, 2019, 58, 10635-10651.	1.8	15
86	Fabrication of polyaniline/activated carbon composite and its testing for methyl orange removal: Optimization, equilibrium, isotherm and kinetic study. Polymer Testing, 2019, 77, 105909.	2.3	22
87	Heating load depreciation in the solvent-regeneration step of absorption-based acid gas removal using an ionic liquid with an imidazolium-based cation. International Journal of Greenhouse Gas Control, 2019, 87, 89-99.	2.3	23
88	Dual mixed refrigerant LNG process: Uncertainty quantification and dimensional reduction sensitivity analysis. Applied Energy, 2019, 250, 1446-1456.	5.1	31
89	Data Authorization and Forecasting by a Proactive Soft Sensing Tool–Anammox Based Process. Industrial & Engineering Chemistry Research, 2019, 58, 9552-9563.	1.8	13
90	Optimal operation of a dividing wall column using an enhanced active vapor distributor. Chemical Engineering Research and Design, 2019, 144, 512-519.	2.7	18

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91	Economical retrofit of reactive distillation with a total reflux design or a total boil-up design. Chemical Engineering Research and Design, 2019, 145, 53-63.	2.7	2
92	Control of a wastewater treatment plant using relay auto-tuning. Korean Journal of Chemical Engineering, 2019, 36, 505-512.	1.2	13
93	Optimization of mixed fluid cascade LNG process using a multivariate Coggins step-up approach: Overall compression power reduction and exergy loss analysis. International Journal of Refrigeration, 2019, 104, 189-200.	1.8	32
94	Membrane separation processes for dehydration of bioethanol from fermentation broths: Recent developments, challenges, and prospects. Renewable and Sustainable Energy Reviews, 2019, 105, 427-443.	8.2	94
95	Vortex tube shape optimization for hot control valves through computational fluid dynamics. International Journal of Refrigeration, 2019, 102, 151-158.	1.8	22
96	Analytical design of constraint handling optimal two parameter internal model control for dead-time processes. Korean Journal of Chemical Engineering, 2019, 36, 356-367.	1.2	6
97	Enhancement of a R-410A Reclamation Process Using Various Heat-Pump-Assisted Distillation Configurations. Energies, 2019, 12, 3776.	1.6	6
98	Ecofriendly Anaerobic Ammonium Oxidation System: Optimum Operation and Inhibition Control Strategies for Enhanced Nitrogen Removal. Industrial & Engineering Chemistry Research, 2019, 58, 20847-20856.	1.8	15
99	Significance of operating pressure on process intensification in a distillation with side-reactor configuration. Separation and Purification Technology, 2019, 213, 533-544.	3.9	8
100	Nitrogen self-recuperation expansion-based process for offshore coproduction of liquefied natural gas, liquefied petroleum gas, and pentane plus. Applied Energy, 2019, 235, 247-257.	5.1	53
101	Coal to clean energy: Energy-efficient single-loop mixed-refrigerant-based schemes for the liquefaction of synthetic natural gas. Journal of Cleaner Production, 2019, 211, 574-589.	4.6	37
102	Design of a renewable energy system with battery and power-to-methanol unit. Korean Journal of Chemical Engineering, 2019, 36, 12-20.	1.2	11
103	Design and optimization of multi-effect-evaporation-assisted distillation configuration for recovery of 2,3-butanediol from fermentation broth. Chemical Engineering and Processing: Process Intensification, 2019, 136, 107-115.	1.8	20
104	Knowledge-inspired operational reliability for optimal LNG production at the offshore site. Applied Thermal Engineering, 2019, 150, 19-29.	3.0	14
105	Optimal plant-wide control of the wet sulfuric acid process in an integrated gasification combined cycle power plant. Journal of Process Control, 2019, 74, 147-159.	1.7	2
106	Cost effective nitrogen removal – Novel control strategies. International Journal of Computational Methods and Experimental Measurements, 2019, 7, 376-384.	0.1	7
107	Plantwide design for high-purity formic acid reactive distillation process with dividing wall column and external heat integration arrangements. Korean Journal of Chemical Engineering, 2018, 35, 926-940.	1.2	18
108	Closed-Loop Self-Cooling Recuperative N ₂ Expander Cycle for the Energy Efficient and Ecological Natural Gas Liquefaction Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 5021-5033.	3.2	32

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109	Measuring the reliability of a natural gas refrigeration plant: Uncertainty propagation and quantification with polynomial chaos expansion based sensitivity analysis. Reliability Engineering and System Safety, 2018, 172, 103-117.	5.1	9
110	Design optimization of single mixed refrigerant LNG process using a hybrid modified coordinate descent algorithm. Cryogenics, 2018, 89, 131-140.	0.9	44
111	A cost-effective retrofit of conventional distillation sequence to dividing-wall prefractionator configuration. Computers and Chemical Engineering, 2018, 110, 93-105.	2.0	12
112	Energy efficiency enhancement of a single mixed refrigerant LNG process using a novel hydraulic turbine. Energy, 2018, 144, 968-976.	4.5	70
113	Innovative propane-nitrogen two-phase expander refrigeration cycle for energy-efficient and low-global warming potential LNG production. Applied Thermal Engineering, 2018, 139, 157-165.	3.0	44
114	Global Sensitivity Analysis and Uncertainty Quantification of Crude Distillation Unit Using Surrogate Model Based on Gaussian Process Regression. Industrial & Engineering Chemistry Research, 2018, 57, 5035-5044.	1.8	13
115	Optimal retrofit and debottlenecking using novel multi-effect dividing wall column. Chemical Engineering and Processing: Process Intensification, 2018, 127, 65-71.	1.8	7
116	Energy optimization for single mixed refrigerant natural gas liquefaction process using the metaheuristic vortex search algorithm. Applied Thermal Engineering, 2018, 129, 782-791.	3.0	49
117	Feasibility study of environmental relative humidity through the thermodynamic effects on the performance of natural gas liquefaction process. Applied Thermal Engineering, 2018, 128, 51-63.	3.0	28
118	Grid-search-and-box-search-assisted coordinate descent methodology for practical retrofit of the existing distillation columns to dividing wall columns. Chemical Engineering Research and Design, 2018, 131, 55-65.	2.7	4
119	Design of an Intensified Reactive Distillation Configuration for 2-Methoxy-2-methylheptane. Industrial & Engineering Chemistry Research, 2018, 57, 316-328.	1.8	13
120	Applying SVM framework for modeling of CO2 solubility in oil during CO2 flooding. Fuel, 2018, 214, 73-87.	3.4	43
121	Analytical design of an industrial two-term controller for optimal regulatory control of open-loop unstable processes under operational constraints. ISA Transactions, 2018, 72, 66-76.	3.1	3
122	Comprehensive Review of the Design Optimization of Natural Gas Liquefaction Processes: Current Status and Perspectives. Industrial & Engineering Chemistry Research, 2018, 57, 5819-5844.	1.8	86
123	Novel hybrid-blower-and-evaporator-assisted distillation for separation and purification in biorefineries. Chemical Engineering and Processing: Process Intensification, 2018, 123, 195-203.	1.8	11
124	Krill-Herd-Based Investigation for Energy Saving Opportunities in Offshore Liquefied Natural Gas Processes. Industrial & Engineering Chemistry Research, 2018, 57, 14162-14172.	1.8	22
125	Cost- and Energy-Efficient Butanol-Based Extraction-Assisted Distillation Designs for Purification of 2,3-Butanediol for Use as a Drop-in Fuel. ACS Sustainable Chemistry and Engineering, 2018, 6, 14901-14910.	3.2	38
126	Design trade-offs in a column with side-reactor configuration for improving selectivity in multiple reaction systems. Chemical Engineering and Processing: Process Intensification, 2018, 134, 86-96.	1.8	7

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127	Synergistic Effect in Moisture Sensing of Nylon-6 Polymer Films through Molecular-Level Interfacial Interactions of Amide Linkages in the Presence of Graphene. Journal of Physical Chemistry C, 2018, 122, 24672-24683.	1.5	3
128	Techno-economic analysis of various process schemes for the production of fuel grade 2,3-butanediol from fermentation broth. Biochemical Engineering Journal, 2018, 140, 93-107.	1.8	26
129	Optimal design of an intensified column with side-reactor configuration for the methoxy-methylheptane process. Chemical Engineering Research and Design, 2018, 136, 11-24.	2.7	11
130	Hydrofluoroolefin-based novel mixed refrigerant for energy efficient and ecological LNG production. Energy, 2018, 157, 483-492.	4.5	34
131	Distillation design and optimization of quaternary azeotropic mixtures for waste solvent recovery. Journal of Industrial and Engineering Chemistry, 2018, 67, 255-265.	2.9	17
132	Reactive distillation with pervaporation hybrid configuration for enhanced ethyl levulinate production. Chemical Engineering Science, 2018, 190, 297-311.	1.9	22
133	An innovative vortex-tube turbo-expander refrigeration cycle for performance enhancement of nitrogen-based natural-gas liquefaction process. Applied Thermal Engineering, 2018, 144, 117-125.	3.0	32
134	Surrogate-assisted modeling and optimization of a natural-gas liquefaction plant. Computers and Chemical Engineering, 2018, 118, 132-142.	2.0	33
135	Purification of 2,3-butanediol from fermentation broth: process development and techno-economic analysis. Biotechnology for Biofuels, 2018, 11, 18.	6.2	61
136	Recrystallization techniques for the synthesis of ZnO nanorods: an in situ process for carbon doping and enhancing the dispersion concentration of ZnO nanorods. RSC Advances, 2018, 8, 16927-16936.	1.7	11
137	Sparse Bayesian learning for data driven polynomial chaos expansion with application to chemical processes. Chemical Engineering Research and Design, 2018, 137, 553-565.	2.7	8
138	Co-electrolysis for power-to-methanol applications. Renewable and Sustainable Energy Reviews, 2018, 95, 227-241.	8.2	67
139	Effect of Gallium doping on CdS thin film properties and corresponding Cu(InGa)Se2/CdS:Ga solar cell performance. Thin Solid Films, 2018, 660, 207-212.	0.8	21
140	Alignment of Carbon Nanotubes in Carbon Nanotube Fibers Through Nanoparticles: A Route for Controlling Mechanical and Electrical Properties. ACS Applied Materials & Interfaces, 2017, 9, 5530-5542.	4.0	20
141	Conceptual designs of integrated process for simultaneous production of potable water, electricity, and salt. Desalination, 2017, 409, 96-107.	4.0	5
142	Process Design and Optimization of an Acetic Acid Recovery System in Terephthalic Acid Production via Hybrid Extraction–Distillation Using a Novel Mixed Solvent. Industrial & Engineering Chemistry Research, 2017, 56, 2168-2176.	1.8	36
143	Simplified design of proportional-integral-derivative (PID) controller to give a time domain specification for high order processes. Korean Journal of Chemical Engineering, 2017, 34, 961-968.	1.2	3
144	Techno-economic assessment of hybrid extraction and distillation processes for furfural production from lignocellulosic biomass. Biotechnology for Biofuels, 2017, 10, 81.	6.2	52

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145	Energy-Efficient Design of an Ethyl Levulinate Reactive Distillation Process via a Thermally Coupled Distillation with External Heat Integration Arrangement. Industrial & Engineering Chemistry Research, 2017, 56, 7037-7048.	1.8	22
146	Hydraulic Driven Active Vapor Distributor for Enhancing Operability of a Dividing Wall Column. Industrial & Engineering Chemistry Research, 2017, 56, 6493-6498.	1.8	33
147	Process Design of Hybrid Extraction and Distillation Processes through a Systematic Solvent Selection for Furfural Production. Energy Procedia, 2017, 105, 1084-1089.	1.8	11
148	A thermally coupled reactive distillation and pervaporation hybrid process for n -butyl acetate production with enhanced energy efficiency. Chemical Engineering Research and Design, 2017, 124, 98-113.	2.7	33
149	A neural network-based local rainfall prediction system using meteorological data on the Internet: A case study using data from the Japan Meteorological Agency. Applied Soft Computing Journal, 2017, 56, 317-330.	4.1	102
150	Optimization approach for the analytical design of an industrial PI controller for the optimal regulatory control of first order processes under operational constraints. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 85-99.	2.7	4
151	Intensification of the ethylbenzene production process using a column configured with a side reactor. Chemical Engineering and Processing: Process Intensification, 2017, 122, 204-212.	1.8	16
152	A hybrid reactive distillation process with high selectivity pervaporation for butyl acetate production via transesterification. Journal of Membrane Science, 2017, 543, 49-57.	4.1	30
153	Retrofit and. , 2017, , 17-41.		0
154	Promising Retrofit Technologies for. , 2017, , 43-70.		1
155	Promising Retrofit Technologies for. , 2017, , 71-131.		0
156	Techno-economic assessment of technological improvements in thermal energy storage of concentrated solar power. Solar Energy, 2017, 157, 552-558.	2.9	18
157	Novel acid gas removal process based on self-heat recuperation technology. International Journal of Greenhouse Gas Control, 2017, 64, 34-42.	2.3	15
158	Electrosynthesis of a corn flake-like NiO nanostructure on nickel foam for polymer gel electrolyte-based high performance asymmetric supercapacitors. New Journal of Chemistry, 2017, 41, 10584-10591.	1.4	21
159	Constraint handling optimal PI control of open-loop unstable process: Analytical approach. Korean Journal of Chemical Engineering, 2017, 34, 3067-3076.	1.2	5
160	Techno-economic study of enhanced absorber–regenerator configurations for improving an industrial Sulfinol-M-based acid gas removal processes. Journal of Industrial and Engineering Chemistry, 2017, 54, 454-463.	2.9	6
161	A two-stage approach of multiplicative dimensional reduction and polynomial chaos for global sensitivity analysis and uncertainty quantification with a large number of process uncertainties. Journal of the Taiwan Institute of Chemical Engineers, 2017, 78, 254-264.	2.7	7
162	Decline curve based models for predicting natural gas well performance. Petroleum, 2017, 3, 242-248.	1.3	29

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163	Novel heat–integrated and intensified biorefinery process for cellulosic ethanol production from lignocellulosic biomass. Energy Conversion and Management, 2017, 141, 367-377.	4.4	40
164	Enhancement of single mixed refrigerant natural gas liquefaction process through process knowledge inspired optimization and modification. Applied Thermal Engineering, 2017, 110, 1230-1239.	3.0	82
165	Recent Progress and Novel Applications in Enzymatic Conversion of Carbon Dioxide. Energies, 2017, 10, 473.	1.6	53
166	A novel vortex tube-based N2-expander liquefaction process for enhancing the energy efficiency of natural gas liquefaction. E3S Web of Conferences, 2017, 22, 00140.	0.2	1
167	Measuring the effect on chemical processes due to uncertain input states: Uncertainty-cum-sensitivity analysis using a gPC approach. Computer Aided Chemical Engineering, 2017, 40, 439-444.	0.3	2
168	Optimization of Natural Gas Liquefaction Process. , 2017, , 432-456.		0
169	Promising Retrofit Technologies for. , 2017, , 133-197.		0
170	Estimation of the silica solubility in the superheated steam using <scp>LSSVM</scp> modeling approach. Environmental Progress and Sustainable Energy, 2016, 35, 596-602.	1.3	13
171	Prediction of frictional pressure loss for multiphase flow in inclined annuli during Underbalanced Drilling operations. Natural Gas Industry B, 2016, 3, 275-282.	1.4	10
172	A model for estimation of permeability and free flowing porosity. Petroleum Science and Technology, 2016, 34, 1872-1879.	0.7	4
173	Prediction of heavy oil viscosity using a radial basis function neural network. Petroleum Science and Technology, 2016, 34, 1742-1748.	0.7	10
174	Uncertainty quantification and global sensitivity analysis of complex chemical process using a generalized polynomial chaos approach. Computers and Chemical Engineering, 2016, 90, 23-30.	2.0	34
175	Computational intelligent strategies to predict energy conservation benefits in excess air controlled gas-fired systems. Applied Thermal Engineering, 2016, 102, 432-446.	3.0	40
176	Enhanced recovery of PGME and PGMEA from waste photoresistor thinners by heterogeneous azeotropic dividing-wall column. Chemical Engineering Research and Design, 2016, 103, 413-423.	2.7	31
177	Novel retrofit designs using a modified coordinate descent methodology for improving energy efficiency of natural gas liquid fractionation process. Journal of Natural Gas Science and Engineering, 2016, 33, 458-468.	2.1	27
178	Design and optimization of intensified biorefinery process for furfural production through a systematic procedure. Biochemical Engineering Journal, 2016, 116, 166-175.	1.8	39
179	Prediction of CO2–oil molecular diffusion using adaptive neuro-fuzzy inference system and particle swarm optimization technique. Fuel, 2016, 181, 178-187.	3.4	36
180	Modelling of CO2 separation from gas streams emissions in the oil and gas industries. Petroleum Science and Technology, 2016, 34, 1291-1299.	0.7	8

#	Article	IF	CITATIONS
181	Innovative method to prepare a stable emulsion liquid membrane for high CO 2 absorption and its performance evaluation for a natural gas feed in a rotating disk contactor. Journal of Natural Gas Science and Engineering, 2016, 34, 716-732.	2.1	10
182	Intensified Distillationâ€Based Separation Processes: Recent Developments and Perspectives. Chemical Engineering and Technology, 2016, 39, 2183-2195.	0.9	20
183	Phase equilibrium modelling of natural gas hydrate formation conditions using LSSVM approach. Petroleum Science and Technology, 2016, 34, 1431-1438.	0.7	42
184	Synergetic Effect in Raman Scattering of ZnO Nanoparticles in ZnO–CNT Fibers: A Way To Enhance the G and 2D Band. Journal of Physical Chemistry C, 2016, 120, 17670-17682.	1.5	16
185	Multi-objective optimization of a cascade refrigeration system: Exergetic, economic, environmental, and inherent safety analysis. Applied Thermal Engineering, 2016, 107, 804-817.	3.0	78
186	Uncertainty quantification and global sensitivity analysis of complex chemical processes with a large number of input parameters using compressive polynomial chaos. Chemical Engineering Research and Design, 2016, 115, 204-213.	2.7	9
187	Prediction of physical properties of hydrocarbon compounds using empirical correlations. Petroleum Science and Technology, 2016, 34, 1631-1635.	0.7	2
188	Prediction of carbon dioxide separation from gas mixtures in petroleum industries using the Levenberg–Marquardt algorithm. Petroleum Science and Technology, 2016, 34, 703-711.	0.7	5
189	Optimization of modified single mixed refrigerant process of natural gas liquefaction using multivariate Coggin's algorithm combined with process knowledge. Journal of Natural Gas Science and Engineering, 2016, 33, 731-741.	2.1	24
190	Design and modeling of optimal distillation sequence for recovery of valuable components from a waste photoresist stripper. Journal of Material Cycles and Waste Management, 2016, 18, 366-376.	1.6	7
191	Estimation of air dew point temperature using computational intelligence schemes. Applied Thermal Engineering, 2016, 93, 1043-1052.	3.0	114
192	Evolution and optimization of the dual mixed refrigerant process of natural gas liquefaction. Applied Thermal Engineering, 2016, 96, 320-329.	3.0	98
193	Design and Assessment of Hybrid Purification Processes through a Systematic Solvent Screening for the Production of Levulinic Acid from Lignocellulosic Biomass. Industrial & Engineering Chemistry Research, 2016, 55, 5180-5189.	1.8	43
194	Prediction of carbon dioxide solubility in aqueous mixture of methyldiethanolamine and N -methylpyrrolidone using intelligent models. International Journal of Greenhouse Gas Control, 2016, 47, 122-136.	2.3	55
195	Liquid–liquid equilibrium data and correlation for quaternary systems of acetic acid + water + methyl acetate + p-xylene at 313.2 K. Journal of Industrial and Engineering Chemistry, 2016, 35, 369-375.	2.9	14
196	Liquid–Liquid Equilibria Data for the Quaternary System of Acetic Acid, Water, <i>p</i> -Xylene, and Ethyl Acetate at 313.15 K and 101.325 kPa. Journal of Chemical & Engineering Data, 2016, 61, 780-787.	1.0	16
197	Design and optimization of the levulinic acid recovery process from lignocellulosic biomass. Chemical Engineering Research and Design, 2016, 107, 126-136.	2.7	36
198	Deterministic analysis of distributed order systems using operational matrix. Applied Mathematical Modelling, 2016, 40, 1929-1940.	2.2	23

#	Article	IF	CITATIONS
199	Vapor permeation–distillation hybrid processes for cost-effective isopropanol dehydration: modeling, simulation and optimization. Journal of Membrane Science, 2016, 497, 108-119.	4.1	30
200	Energy Recovery in a Naphtha Splitter Process through Debottlenecking of Retrofitted Thermally Coupled and Double‣ffect Distillation Sequences. Energy Technology, 2015, 3, 579-586.	1.8	1
201	Prediction of supercritical CO ₂ /brine relative permeability in sedimentary basins during carbon dioxide sequestration. , 2015, 5, 756-771.		14
202	Design of an Extractive Distillation Column for the Environmentally Benign Separation of Zirconium and Hafnium Tetrachloride for Nuclear Power Reactor Applications. Energies, 2015, 8, 10354-10369.	1.6	6
203	Optimal Design of Stochastic Distributed Order Linear SISO Systems Using Hybrid Spectral Method. Mathematical Problems in Engineering, 2015, 2015, 1-14.	0.6	3
204	A novel modeling approach to optimize oxygen–steam ratios in coal gasification process. Fuel, 2015, 153, 1-5.	3.4	55
205	Prediction of reservoir brine properties using radial basis function (RBF) neural network. Petroleum, 2015, 1, 349-357.	1.3	29
206	Vapor liquid equilibrium prediction of carbon dioxide and hydrocarbon systems using LSSVM algorithm. Journal of Supercritical Fluids, 2015, 97, 256-267.	1.6	39
207	Modified coordinate descent methodology for solving process design optimization problems: Application to natural gas plant. Journal of Natural Gas Science and Engineering, 2015, 27, 32-41.	2.1	37
208	Knowledge inspired investigation of selected parameters on energy consumption in nitrogen single and dual expander processes of natural gas liquefaction. Journal of Natural Gas Science and Engineering, 2015, 23, 324-337.	2.1	54
209	Electrical conductivity, optical property and ammonia sensing studies on HCl Doped Au@polyaniline nanocomposites. Electronic Materials Letters, 2015, 11, 1-6.	1.0	28
210	Risk-based optimization for representative natural gas liquid (NGL) recovery processes by considering uncertainty from the plant inlet. Journal of Natural Gas Science and Engineering, 2015, 27, 42-54.	2.1	20
211	Techno-economic evaluation of a novel NGL recovery scheme with nine patented schemes for offshore applications. Journal of Natural Gas Science and Engineering, 2015, 27, 2-17.	2.1	41
212	A computational intelligence scheme for prediction of interfacial tension between pure hydrocarbons and water. Chemical Engineering Research and Design, 2015, 95, 79-92.	2.7	16
213	Synthesis of PVC/CNT nanocomposite fibers using a simple deposition technique for the application of Alizarin Red S (ARS) removal. RSC Advances, 2015, 5, 14393-14399.	1.7	30
214	A hybrid technology combining heat pump and thermally coupled distillation sequence for retrofit and debottlenecking. Energy, 2015, 81, 103-110.	4.5	13
215	Prediction of the binary surface tension of mixtures containing ionic liquids using Support Vector Machine algorithms. Journal of Molecular Liquids, 2015, 211, 534-552.	2.3	51
216	Determination of oil well production performance using artificial neural network (ANN) linked to the particle swarm optimization (PSO) tool. Petroleum, 2015, 1, 118-132.	1.3	111

#	Article	IF	CITATIONS
217	Sequential coordinate random search for optimal operation of LNG (liquefied natural gas) plant. Energy, 2015, 89, 757-767.	4.5	34
218	Optimal design of advanced distillation configuration for enhanced energy efficiency of waste solvent recovery process in semiconductor industry. Energy Conversion and Management, 2015, 102, 92-103.	4.4	28
219	Enhanced thermo-mechanical performance and strain-induced band gap reduction of TiO2@PVC nanocomposite films. Bulletin of Materials Science, 2015, 38, 283-290.	0.8	18
220	Chemistry and product quality of an NH ₃ –CO ₂ forward osmosis desalination system. Desalination and Water Treatment, 2015, 55, 331-338.	1.0	2
221	Stochastic analysis of dead-time systems using a hybrid spectral method. International Journal of Control, Automation and Systems, 2015, 13, 1306-1312.	1.6	0
222	A novel self-heat recuperative dividing wall column to maximize energy efficiency and column throughput in retrofitting and debottlenecking of a side stream column. Applied Energy, 2015, 159, 28-38.	5.1	40
223	Self-heat recuperative dividing wall column for enhancing the energy efficiency of the reactive distillation process in the formic acid production process. Chemical Engineering and Processing: Process Intensification, 2015, 97, 144-152.	1.8	30
224	Evolving a robust modeling tool for prediction of natural gas hydrate formation conditions. Journal of Unconventional Oil and Gas Resources, 2015, 12, 45-55.	3.5	33
225	DC electrical conductivity retention and thermo-optical studies of camphor sulfonic acid doped cetyl tri methyl ammonium bromide-assisted graphene/polyaniline composite nanofibers. Journal of Industrial and Engineering Chemistry, 2015, 32, 123-127.	2.9	4
226	Attitude control of full vehicle using variable stiffness suspension control. Optimal Control Applications and Methods, 2015, 36, 936-952.	1.3	10
227	Ammonia sensing and DC electrical conductivity studies of p-toluene sulfonic acid doped cetyltrimethylammonium bromide assisted V2O5@polyaniline composite nanofibers. Journal of Industrial and Engineering Chemistry, 2015, 22, 147-152.	2.9	23
228	Enhanced thermo-optical performance and high BET surface area of graphene@PVC nanocomposite fibers prepared by simple facile deposition technique: N 2 adsorption study. Journal of Industrial and Engineering Chemistry, 2015, 21, 828-834.	2.9	50
229	Hollow fiber membrane model for gas separation: Process simulation, experimental validation and module characteristics study. Journal of Industrial and Engineering Chemistry, 2015, 21, 1246-1257.	2.9	50
230	Bubble point measurement and high pressure distillation column design for the environmentally benign separation of zirconium from hafnium for nuclear power reactor. Korean Journal of Chemical Engineering, 2015, 32, 30-36.	1.2	4
231	Optimization of Natural Gas Liquefaction Process. Advances in Mechatronics and Mechanical Engineering, 2015, , 854-880.	1.0	4
232	Retrofit and Debottlenecking of Naphtha Splitter Process to Thermally Coupled Distillation Sequence with a Side Reboiler. Journal of Chemical Engineering of Japan, 2014, 47, 687-692.	0.3	3
233	Enhancement of the thermo-mechanical properties and efficacy of mixing technique in the preparation of graphene/PVC nanocomposites compared to carbon nanotubes/PVC. Progress in Natural Science: Materials International, 2014, 24, 579-587.	1.8	69
234	Steady-state Optimality Analysis for Investigating the Energy Optimal Operation of Representative Natural Gas Liquefaction Cycles. Energy Procedia, 2014, 61, 552-555.	1.8	0

#	Article	IF	CITATIONS
235	Energy Efficient Process Structure Design of LNG/NGL Recovery for Offshore FLNG Plant. Energy Procedia, 2014, 61, 599-602.	1.8	7
236	Detailed Process Simulation of Syngas Treatment with Wet Sulfuric Acid Process in a 300 MWe IGCC Power Plant. Energy Procedia, 2014, 61, 2211-2214.	1.8	2
237	Design and Optimization of Fully Thermally Coupled Distillation Scheme for the Naphtha Splitter Process. Energy Procedia, 2014, 61, 568-571.	1.8	0
238	Control structure synthesis for operational optimization of mixed refrigerant processes for liquefied natural gas plant. AICHE Journal, 2014, 60, 2428-2441.	1.8	13
239	Plant-wide control for the economic operation of modified single mixed refrigerant process for an offshore natural gas liquefaction plant. Chemical Engineering Research and Design, 2014, 92, 679-691.	2.7	44
240	Probabilistic analysis and control of systems with uncertain parameters over non-hypercube domain. Journal of Process Control, 2014, 24, 358-367.	1.7	7
241	Smith predictor based fractional-order PI control for time-delay processes. Korean Journal of Chemical Engineering, 2014, 31, 1321-1329.	1.2	27
242	Optimal design of fractional order linear system with stochastic inputs/parametric uncertainties by hybrid spectral method. Journal of Process Control, 2014, 24, 1639-1645.	1.7	3
243	Process knowledge based opportunistic optimization of the N2–CO2 expander cycle for the economic development of stranded offshore fields. Journal of Natural Gas Science and Engineering, 2014, 18, 263-273.	2.1	55
244	Does lower energy usage mean lower carbon dioxide emissions? — A new perspective on the distillation process. Korean Journal of Chemical Engineering, 2014, 31, 1110-1114.	1.2	8
245	Energy saving opportunities in integrated NCL/LNG schemes exploiting: Thermal-coupling common-utilities and process knowledge. Chemical Engineering and Processing: Process Intensification, 2014, 82, 54-64.	1.8	61
246	Review of Retrofitting Distillation Columns Using Thermally Coupled Distillation Sequences and Dividing Wall Columns to Improve Energy Efficiency. Journal of Chemical Engineering of Japan, 2014, 47, 87-108.	0.3	47
247	Energy Efficient Optimal Design of Waste Solvent Recovery Process in Semiconductor Industry Using Enhanced Vacuum Distillation. Energy Procedia, 2014, 61, 1451-1454.	1.8	4
248	Synthesis of an Optimizing Control Structure for Dual Mixed Refrigerant Process. Journal of Chemical Engineering of Japan, 2014, 47, 678-686.	0.3	15
249	Application of Mechanical Vapor Recompression to Acetone – Methanol Separation. International Journal of Chemical Engineering and Applications (IJCEA), 2014, 5, 215-218.	0.3	1
250	Knowledge based decision making method for the selection of mixed refrigerant systems for energy efficient LNG processes. Applied Energy, 2013, 111, 1018-1031.	5.1	116
251	A novel NGL (natural gas liquid) recovery process based on self-heat recuperation. Energy, 2013, 57, 663-670.	4.5	52
252	Analytical design of fractional-order proportional-integral controllers for time-delay processes. ISA Transactions, 2013, 52, 583-591.	3.1	71

#	Article	IF	CITATIONS
253	Design and optimization of thermally coupled distillation schemes for the trichlorosilane purification process. Applied Thermal Engineering, 2013, 59, 200-210.	3.0	27
254	A unified approach to the design of advanced proportional-integral-derivative controllers for time-delay processes. Korean Journal of Chemical Engineering, 2013, 30, 546-558.	1.2	15
255	Analytical design of proportional-integral controllers for the optimal control of first-order processes with operational constraints. Korean Journal of Chemical Engineering, 2013, 30, 2151-2162.	1.2	7
256	Profit optimization for chemical process plant based on a probabilistic approach by incorporating material flow uncertainties. Computers and Chemical Engineering, 2013, 59, 186-196.	2.0	6
257	Debottlenecking the Retrofitted Thermally Coupled Distillation Sequence. Industrial & Engineering Chemistry Research, 2013, 52, 12635-12645.	1.8	18
258	Techno-economic analysis of potential natural gas liquid (NGL) recovery processes under variations of feed compositions. Chemical Engineering Research and Design, 2013, 91, 1272-1283.	2.7	70
259	The Preparation and Photovoltaic Properties of Quasi-solid State Dye-Sensitized Solar Cells Containing Long Wavelength Absorbing Squaraine Dye. Molecular Crystals and Liquid Crystals, 2013, 581, 108-115.	0.4	0
260	Fractional-order PI controllers design based on IMC scheme for enhanced performance of dead-time processes. , 2013, , .		4
261	Optimal retrofit of a side stream column to a dividing wall column for energy efficiency maximization. Chemical Engineering Research and Design, 2013, 91, 2291-2298.	2.7	29
262	Optimal retrofit design of extractive distillation to energy efficient thermally coupled distillation scheme. AICHE Journal, 2013, 59, 1175-1182.	1.8	46
263	Design and optimization of heat integrated dividing wall columns for improved debutanizing and deisobutanizing fractionation of NGL. Korean Journal of Chemical Engineering, 2013, 30, 286-294.	1.2	26
264	Design optimization of single mixed refrigerant natural gas liquefaction process using the particle swarm paradigm with nonlinear constraints. Energy, 2013, 49, 146-155.	4.5	165
265	Robust PI controller design for integrator plus dead-time process with stochastic uncertainties using operational matrix. Korean Journal of Chemical Engineering, 2013, 30, 1990-1996.	1.2	1
266	An Extended Method of Simplified Decoupling for Multivariable Processes with Multiple Time Delays. Journal of Chemical Engineering of Japan, 2013, 46, 279-293.	0.3	15
267	A Study of Complex Distillation Arrangements Using Dividing Wall Columns for Improved Depropanizing, Debutanizing and Deisobutanizing Fractionation of NGL. Korean Chemical Engineering Research, 2013, 51, 245-249.	0.2	1
268	Recovery of 1-hydroxyethylpiperazine and Methyl Diglycol from a Waste Photoresist Stripper by Vacuum Distillation. Journal of Korea Society of Waste Management, 2013, 30, 520-528.	0.1	3
269	Analyzing the effects of uncertainties on the economic performance of a chemical process plant using a probabilistic optimization technique. Computer Aided Chemical Engineering, 2012, 30, 832-836.	0.3	3

 $\hfill Closed-loop PI/PID controller tuning for stable and unstable processes. , 2012, , .$

#	Article	IF	CITATIONS
271	Robust PID controller design for processes with stochastic parametric uncertainties. Journal of Process Control, 2012, 22, 1559-1566.	1.7	25
272	Uncertainty propagation in stochastic fractional order processes using spectral methods: A hybrid approach. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4262-4273.	1.7	7
273	Two-Point Temperature Control Structure Selection for Dividing-Wall Distillation Columns. Industrial & Engineering Chemistry Research, 2012, 51, 15683-15695.	1.8	22
274	A Study of Complex Distillation Arrangements for Improved Depropanizing, Debutanizing and Deisobutanizing Fractionation of NGL. Computer Aided Chemical Engineering, 2012, 31, 680-684.	0.3	0
275	Energy efficiency improvement of dimethyl ether purification process by utilizing dividing wall columns. Korean Journal of Chemical Engineering, 2012, 29, 1500-1507.	1.2	19
276	Studying the effect of feed composition variation on typical natural gas liquid (NGL) recovery processes. Computer Aided Chemical Engineering, 2012, , 405-409.	0.3	7
277	Simulation based Heuristics Approach for Plantwide Control of Propane Precooled Mixed Refrigerant in Natural Gas Liquefaction Process. Computer Aided Chemical Engineering, 2012, 31, 400-404.	0.3	0
278	Improvement of the Deethanizing and Depropanizing Fractionation Steps in NGL Recovery Process Using Dividing Wall Column. Journal of Chemical Engineering of Japan, 2012, 45, 285-294.	0.3	21
279	Design and Optimization of Natural Gas Liquefaction and Recovery Processes for Offshore Floating Liquefied Natural Gas Plants. Industrial & Engineering Chemistry Research, 2012, 51, 10021-10030.	1.8	84
280	Optimization of single mixed refrigerant natural gas liquefaction plant with nonlinear programming. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S62.	0.8	60
281	Improvement of natural gas liquid recovery energy efficiency through thermally coupled distillation arrangements. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S71.	0.8	27
282	Design and optimization of a dividing wall column by factorial design. Korean Journal of Chemical Engineering, 2012, 29, 567-573.	1.2	22
283	Dividing wall column structure design using response surface methodology. Computers and Chemical Engineering, 2012, 37, 119-124.	2.0	64
284	Design of IMC filter for PID control strategy of openâ€loop unstable processes with time delay. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 93-110.	0.8	20
285	Design of robust PID controller for processes with stochastic uncertainties. Computer Aided Chemical Engineering, 2011, 29, 512-516.	0.3	1
286	Statistical analysis of deadâ€ŧime system using a deterministic equivalent modeling method. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 369-378.	0.8	2
287	Improved energy efficiency in debottlenecking using a fully thermally coupled distillation column. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 338-348.	0.8	29
288	Study of the structural characteristics of a divided wall column using the sloppy distillation arrangement. Korean Journal of Chemical Engineering, 2011, 28, 348-356.	1.2	37

#	Article	IF	CITATIONS
289	Synthesis and Photovoltaic Performance of Long Wavelength Absorbing Organic Dyes for Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2011, 551, 283-294.	0.4	5
290	Optimization Based Approach for Industrial PI Controller Design for Optimal Servo Control of Integrating Process with Constraints. Journal of Chemical Engineering of Japan, 2011, 44, 345-354.	0.3	7
291	Analytical Design of PID Controller for Improved Disturbance Rejection of Delay-Free Processes. Korean Chemical Engineering Research, 2011, 49, 565-570.	0.2	1
292	Robust control of Propane Pre-cooled mixed refrigerant process for natural gas liquefaction. , 2010, ,		2
293	Multi-model PID controller design: Polynomial chaos approach. , 2010, , .		2
294	Multi-loop PI controller design based on the direct synthesis for interacting multi-time delay processes. ISA Transactions, 2010, 49, 79-86.	3.1	57
295	Independent design of multi-loop PI/PID controllers for interacting multivariable processes. Journal of Process Control, 2010, 20, 922-933.	1.7	130
296	Design and optimization of a dividing wall column for debottlenecking of the acetic acid purification process. Chemical Engineering and Processing: Process Intensification, 2010, 49, 825-835.	1.8	53
297	Analytical Design of Multi-Loop PI Controllers for Interactive Multivariable Processes. Journal of Chemical Engineering of Japan, 2010, 43, 196-208.	0.3	8
298	CONSTRAINED OPTIMAL CONTROL OF LIQUID LEVEL LOOP USING A CONVENTIONAL PROPORTIONAL-INTEGRAL CONTROLLER. Chemical Engineering Communications, 2009, 196, 729-745.	1.5	20
299	Analytical design of PID controller cascaded with a lead-lag filter for time-delay processes. Korean Journal of Chemical Engineering, 2009, 26, 622-630.	1.2	14
300	Enhanced disturbance rejection for open-loop unstable process with time delay. ISA Transactions, 2009, 48, 237-244.	3.1	52
301	Operation of divided wall column with vapor sidedraw using profile position control. Journal of Process Control, 2009, 19, 932-941.	1.7	21
302	Analytical design of a proportional-integral controller for constrained optimal regulatory control of inventory loop. Control Engineering Practice, 2008, 16, 1391-1397.	3.2	14
303	PID controller design for integrating processes with time delay. Korean Journal of Chemical Engineering, 2008, 25, 637-645.	1.2	63
304	Design of advanced PID controller for enhanced disturbance rejection of secondâ€order processes with time delay. AICHE Journal, 2008, 54, 1526-1536.	1.8	93
305	Analytical design of enhanced PID filter controller for integrating and first order unstable processes with time delay. Chemical Engineering Science, 2008, 63, 2717-2731.	1.9	118
306	IMC-PID approach: An effective way to get an analytical design of robust PID controller. , 2008, , .		12

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#	Article	IF	CITATIONS
307	Improved analytical PID controller design for the second order unstable process with time delay. Computer Aided Chemical Engineering, 2007, 24, 901-906.	0.3	11
308	Dynamic simulation for the structural design of the divided wall column for different feed composition and various separation features. , 2007, , .		2
309	IMCâ^'PID Controller Design for Improved Disturbance Rejection of Time-Delayed Processes. Industrial & Engineering Chemistry Research, 2007, 46, 2077-2091.	1.8	189
310	An Enhanced Performance PID Filter Controller for First Order Time Delay Processes. Journal of Chemical Engineering of Japan, 2007, 40, 501-510.	0.3	20
311	IMC Based Control System Design of PID Cascaded Filter. , 2006, , .		6
312	Analytical method of PID controller design for parallel cascade control. Journal of Process Control, 2006, 16, 809-818.	1.7	42
313	Robust PID Controller Design of Time Delay Processes with/without Zero. , 2006, , .		2
314	Design of Robust PID Controllers for Unstable Processes. , 2006, , .		12
315	The determination of superheated layer thickness and wall superheat in vertical tube natural circulation reboiler. Applied Thermal Engineering, 2005, 25, 1961-1978.	3.0	3
316	Analytical design of multiloop PID controllers for desired closed-loop responses. AICHE Journal, 2004, 50, 1631-1635.	1.8	58
317	MP criterion based multiloop PID controllers tuning for desired closed loop responses. Korean Journal of Chemical Engineering, 2003, 20, 8-13.	1.2	13
318	Pyrolysis Reaction Mechanism for Industrial Naphtha Cracking Furnaces. Industrial & Engineering Chemistry Research, 2001, 40, 2409-2415.	1.8	46
319	A tuning of the nonlinear PI controller and its experimental application. Korean Journal of Chemical Engineering, 2001, 18, 451-455.	1.2	4
320	A development of experimental education program: computer control of multi-stage level control system. Computers and Chemical Engineering, 2000, 24, 1497-1502.	2.0	5
321	CRACKER — a PC based simulator for industrial cracking furnaces. Computers and Chemical Engineering, 2000, 24, 1523-1528.	2.0	40
322	DESIGN OF A COMPOSITION ESTIMATOR FOR INFERENTIAL CONTROL OF DISTILLATION COLUMNS. Chemical Engineering Communications, 2000, 178, 221-248.	1.5	6
323	Stability and transient behavior of homogeneous azeotropic distillation. Computers and Chemical Engineering, 1999, 23, S191-S194.	2.0	5
324	Robust PID tuning for Smith predictor in the presence of model uncertainty. Journal of Process Control, 1999, 9, 79-85.	1.7	50

#	Article	IF	CITATIONS
325	PID controller tuning for desired closed-loop responses for SI/SO systems. AICHE Journal, 1998, 44, 106-115.	1.8	279
326	Nonlinear static composition estimator for distillation columns using open equation-based nonlinear programming. Korean Journal of Chemical Engineering, 1998, 15, 667-670.	1.2	7
327	PID Controller Tuning To Obtain Desired Closed Loop Responses for Cascade Control Systems. Industrial & Engineering Chemistry Research, 1998, 37, 1859-1865.	1.8	134
328	An Experimental Study of Neural Feedforware Controlled with Generalized Disturbance Error Learning Journal of Chemical Engineering of Japan, 1996, 29, 805-811.	0.3	0
329	Relative Sensitivity Matrices for Closed-Loop Interaction Analysis and Control Structure Synthesis Journal of Chemical Engineering of Japan, 1992, 25, 187-195.	0.3	0
330	A new scheme combining neural feedforward control with model-predictive control. AICHE Journal, 1992, 38, 193-200.	1.8	45
331	Constraint Handling Optimal PI Controller Design for Integrating Processes: Optimization-Based Approach for Analytical Design. , 0, , .		1
332	Prediction of Process Parameters for the Integrated Biomass Gasification Power Plant Using Artificial Neural Network. Frontiers in Energy Research, 0, 10, .	1.2	1
333	Particle Swarm-Assisted Artificial Neural Networks for Making Liquefied Natural Gas Processes Feasible Under Varying Feed Conditions. Frontiers in Energy Research, 0, 10, .	1.2	0