Il Moon

List of Publications by Year
in descending order

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183 papers	4,925 citations	109137 35 h-index	110170 64 g-index
183 all docs	183 docs citations	183 times ranked	3720 citing authors

#	Article	IF	Citations
1	LNG: An eco-friendly cryogenic fuel for sustainable development. Applied Energy, 2011, 88, 4264-4273.	5.1	418
2	Advances in dieselâ€“alcohol blends and their effects on the performance and emissions of diesel engines. Renewable and Sustainable Energy Reviews, 2013, 22, 46-72.	8.2	396
3	Carbon Dioxide Hydrogenation To Form Methanol via a Reverse-Water-Gas-Shift Reaction (the CAMERE) Tj ETQq1 1 0.784314 rgBT /Ov	1.8	240
4	Current Status and Perspectives of Liquefied Natural Gas (LNG) Plant Design. Industrial & Engineering Chemistry Research, 2013, 52, 3065-3088.	1.8	226
5	Current status and future projections of LNG demand and supplies: A global prospective. Energy Policy, 2011, 39, 4097-4104.	4.2	171
6	Ionic liquid-amine blends and CO2BOLs: Prospective solvents for natural gas sweetening and CO2 capture technologyâ€”A review. International Journal of Greenhouse Gas Control, 2014, 20, 87-116.	2.3	158
7	Optimization of a hydrogen supply chain under demand uncertainty. International Journal of Hydrogen Energy, 2008, 33, 4715-4729.	3.8	148
8	Chemical composition of major VOC emission sources in the Seoul atmosphere. Chemosphere, 2004, 55, 585-594.	4.2	139
9	Concentrations of volatile organic compounds in an industrial area of Korea. Atmospheric Environment, 2001, 35, 2747-2756.	1.9	127
10	Strategic design of hydrogen infrastructure considering cost and safety using multiobjective optimization. International Journal of Hydrogen Energy, 2008, 33, 5887-5896.	3.8	109
11	Advanced integration of LNG regasification power plant with liquid air energy storage: Enhancements in flexibility, safety, and power generation. Applied Energy, 2020, 269, 115049.	5.1	96
12	Conceptual design and exergy analysis of combined cryogenic energy storage and LNG regasification processes: Cold and power integration. Energy, 2017, 140, 106-115.	4.5	94
13	Simulation of hydrogen leak and explosion for the safety design of hydrogen fueling station in Korea. International Journal of Hydrogen Energy, 2013, 38, 1737-1743.	3.8	91
14	Automatic verification of sequential control systems using temporal logic. AICHE Journal, 1992, 38, 67-75.	1.8	85
15	Improvements of safety management system in Korean chemical industry after a large chemical accident. Journal of Loss Prevention in the Process Industries, 2016, 42, 6-13.	1.7	77
16	The role of hydrogen in the road transportation sector for a sustainable energy system: A case study of Korea. International Journal of Hydrogen Energy, 2008, 33, 7326-7337.	3.8	75
17	A simultaneous optimization approach for the design of wastewater and heat exchange networks based on cost estimation. Journal of Cleaner Production, 2009, 17, 162-171.	4.6	64
18	A novel cryogenic energy storage system with LNG direct expansion regasification: Design, energy optimization, and exergy analysis. Energy, 2019, 173, 691-705.	4.5	60

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19	Liquid air energy storage coupled with liquefied natural gas cold energy: Focus on efficiency, energy capacity, and flexibility. Energy, 2021, 216, 119308.	4.5	59
20	Key Issues and Challenges on the Liquefied Natural Gas Value Chain: A Review from the Process Systems Engineering Point of View. Industrial & Engineering Chemistry Research, 2018, 57, 5805-5818.	1.8	55
21	Design and Optimization of a Pure Refrigerant Cycle for Natural Gas Liquefaction with Subcooling. Industrial & Engineering Chemistry Research, 2014, 53, 10397-10403.	1.8	46
22	Adversarial Autoencoder Based Feature Learning for Fault Detection in Industrial Processes. IEEE Transactions on Industrial Informatics, 2022, 18, 827-834.	7.2	44
23	Analysis of purge gas temperature in cyclic TSA process. Chemical Engineering Science, 2002, 57, 179-195.	1.9	42
24	Total Cost Optimization of a Single Mixed Refrigerant Process Based on Equipment Cost and Life Expectancy. Industrial & Engineering Chemistry Research, 2016, 55, 10336-10343.	1.8	42
25	Efficient Configuration of a Natural Gas Liquefaction Process for Energy Recovery. Industrial & Engineering Chemistry Research, 2014, 53, 1973-1985.	1.8	41
26	Economic Process Selection of Liquefied Natural Gas Regasification: Power Generation and Energy Storage Applications. Industrial & Engineering Chemistry Research, 2019, 58, 4946-4956.	1.8	41
27	Machine learning-based energy optimization for on-site SMR hydrogen production. Energy Conversion and Management, 2021, 244, 114438.	4.4	40
28	Three-dimensional, two-phase, CFD model for the design of a direct methanol fuel cell. Journal of Power Sources, 2006, 162, 992-1002.	4.0	39
29	Application of TRIZ creativity intensification approach to chemical process safety. Journal of Loss Prevention in the Process Industries, 2009, 22, 1039-1043.	1.7	39
30	An index-based risk assessment model for hydrogen infrastructure. International Journal of Hydrogen Energy, 2011, 36, 6387-6398.	3.8	39
31	Economic Optimization of Dual Mixed Refrigerant Liquefied Natural Gas Plant Considering Natural Gas Extraction Rate. Industrial & Engineering Chemistry Research, 2017, 56, 2804-2814.	1.8	39
32	Continuous and flexible Renewable-Power-to-Methane via liquid CO2 energy storage: Revisiting the techno-economic potential. Renewable and Sustainable Energy Reviews, 2022, 153, 111732.	8.2	38
33	Synthesis and applications of unsaturated polyester resins based on PET waste. Korean Journal of Chemical Engineering, 2007, 24, 1076-1083.	1.2	37
34	Development of Korean hydrogen fueling station codes through risk analysis. International Journal of Hydrogen Energy, 2011, 36, 13122-13131.	3.8	36
35	Comparison of Multistage Compression Configurations for Single Mixed Refrigerant Processes. Industrial & Engineering Chemistry Research, 2015, 54, 9992-10000.	1.8	36
36	The use of plastic optical fibers in photocatalysis of trichloroethylene. Solar Energy Materials and Solar Cells, 2003, 79, 93-101.	3.0	34

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37	A Novel Design of Liquefied Natural Gas (LNG) Regasification Power Plant Integrated with Cryogenic Energy Storage System. Industrial & Engineering Chemistry Research, 2017, 56, 1288-1296.	1.8	34
38	Novel massive thermal energy storage system for liquefied natural gas cold energy recovery. Energy, 2020, 195, 117022.	4.5	34
39	Biogas reforming integrated with PEM electrolysis via oxygen storage process for green hydrogen production: From design to robust optimization. Energy Conversion and Management, 2022, 251, 115021.	4.4	34
40	CFD modeling on natural and forced ventilation during hydrogen leaks in a pressure regulator process of a residential area. Chemical Engineering Research and Design, 2022, 161, 436-446.	2.7	33
41	Multi-objective optimization of CO2 emission and thermal efficiency for on-site steam methane reforming hydrogen production process using machine learning. Journal of Cleaner Production, 2022, 359, 132133.	4.6	32
42	Safety Analysis Embedded in Heat Exchanger Network Synthesis. Computers and Chemical Engineering, 2017, 107, 357-380.	2.0	31
43	Modeling of thermodynamic properties of an oxygenate+aromatic hydrocarbon: Excess molar enthalpy. Journal of Industrial and Engineering Chemistry, 2015, 23, 299-306.	2.9	30
44	Double-Tube Reactor Design and Process Optimization for On-Site Steam Methane Reforming Processes. Industrial & Engineering Chemistry Research, 2020, 59, 18028-18038.	1.8	30
45	Multiobjective Optimization of Cyclic Adsorption Processes. Industrial & Engineering Chemistry Research, 2002, 41, 93-104.	1.8	29
46	Process Integration of an Autothermal Reforming Hydrogen Production System with Cryogenic Air Separation and Carbon Dioxide Capture Using Liquefied Natural Gas Cold Energy. Industrial & Engineering Chemistry Research, 2021, 60, 7257-7274.	1.8	29
47	Measurement and correlation of excess molar volumes for mixtures of 1-propanol and aromatic hydrocarbons. Korean Journal of Chemical Engineering, 2015, 32, 168-177.	1.2	28
48	Decision Making on Liquefaction Ratio for Minimizing Specific Energy in a LNG Pilot Plant. Industrial & Engineering Chemistry Research, 2015, 54, 12920-12927.	1.8	26
49	Design of a Novel Process for Continuous Lactide Synthesis from Lactic Acid. Industrial & Engineering Chemistry Research, 2018, 57, 11955-11962.	1.8	26
50	Strategies for Process and Size Selection of Natural Gas Liquefaction Processes: Specific Profit Portfolio Approach by Economic Based Optimization. Industrial & Engineering Chemistry Research, 2018, 57, 5845-5857.	1.8	25
51	Exergoeconomic optimization of liquid air production by use of liquefied natural gas cold energy. Energy, 2020, 207, 118193.	4.5	25
52	Developed hydrogen liquefaction process using liquefied natural gas cold energy: Design, energy optimization, and technoâ€economic feasibility. International Journal of Energy Research, 2021, 45, 14745-14760.	2.2	24
53	Moving boundary modeling for solid propellant combustion. Combustion and Flame, 2018, 189, 12-23.	2.8	23
54	Korean experience of process safety management (PSM) regulation for chemical industry. Journal of Loss Prevention in the Process Industries, 2016, 42, 2-5.	1.7	22

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55	Liquid air as an emerging energy vector towards carbon neutrality: A multi-scale systems perspective. Renewable and Sustainable Energy Reviews, 2022, 159, 112201.	8.2	22
56	Integration of accident scenario generation and multiobjective optimization for safety-cost decision making in chemical processes. Journal of Loss Prevention in the Process Industries, 2006, 19, 705-713.	1.7	21
57	Development of Corrosion Control Document Database System in Crude Distillation Unit. Industrial & Engineering Chemistry Research, 2011, 50, 8272-8277.	1.8	21
58	Simulation and experimental study on the sulfuric acid decomposition process of SI cycle for hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 5507-5516.	3.8	21
59	Synthesis of safe operating procedure for multi-purpose batch processes using SMV. Computers and Chemical Engineering, 2000, 24, 385-392.	2.0	20
60	Optimization of Procurement and Production Planning Model in Refinery Processes Considering Corrosion Effect. Industrial & Engineering Chemistry Research, 2012, 51, 10191-10200.	1.8	20
61	Proposal and surrogate-based cost-optimal design of an innovative green ammonia and electricity co-production system via liquid air energy storage. Applied Energy, 2022, 314, 118965.	5.1	20
62	Integrated water resource management through water reuse network design for clean production technology: State of the art. Korean Journal of Chemical Engineering, 2007, 24, 567-576.	1.2	19
63	Development of a web-based 3D virtual reality program for hydrogen station. International Journal of Hydrogen Energy, 2010, 35, 2112-2118.	3.8	19
64	System perspective on cleaner technologies for renewable methane production and utilisation towards carbon neutrality: Principles, techno-economics, and carbon footprints. Fuel, 2022, 327, 125130.	3.4	19
65	Development of evaluation algorithms for operator training system. Computers and Chemical Engineering, 2000, 24, 1517-1522.	2.0	18
66	Thermodynamic Investigation of Molecular Interactions in 1,3-Dioxolane or 1,4-Dioxane+Benzene or Toluene+Formamide or +N,N-Dimethylformamide Ternary Mixtures at 308.15ÂK and Atmospheric Pressure. Journal of Solution Chemistry, 2010, 39, 680-691.	0.6	17
67	Physicochemical Properties of Jatropha Curcas Biodiesel + Diesel Fuel No. 2 Binary Mixture atT= (288.15 to 308.15) K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2011, 56, 497-501.	1.0	17
68	Numerical Analysis for Particle Deposit Formation in Reactor Cyclone of Residue Fluidized Catalytic Cracking. Industrial & Engineering Chemistry Research, 2013, 52, 7252-7258.	1.8	17
69	A Symbolic Model Verifier for Safe Chemical Process Sequential Control Systems.. Journal of Chemical Engineering of Japan, 1997, 30, 13-22.	0.3	16
70	Simulation and economic assessment of using Hâ„Oâ„ solution in wet scrubber for large marine vessels. Energy, 2020, 194, 116907.	4.5	16
71	Assessing and mitigating potential hazards of emerging grid-scale electrical energy storage systems. Chemical Engineering Research and Design, 2021, 149, 994-1016.	2.7	16
72	A discrete multi states model for the biological production of hydrogen by phototrophic microalga. Biochemical Engineering Journal, 2007, 36, 19-27.	1.8	15

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73	Development of a risk assessment program for chemical terrorism. Korean Journal of Chemical Engineering, 2010, 27, 399-408.	1.2	15
74	Optimization of mixed-refrigerant system in LNG liquefaction process. Computer Aided Chemical Engineering, 2011, 29, 1824-1828.	0.3	15
75	Finding the best operating condition in a novel process for explosive waste incineration using fluidized bed reactors. Computers and Chemical Engineering, 2020, 142, 107054.	2.0	15
76	Analysis of the Contact Time in a Cyclic Thermal Swing Adsorption Process. Industrial & Engineering Chemistry Research, 2002, 41, 1603-1615.	1.8	14
77	Data-driven robust optimization for minimum nitrogen oxide emission under process uncertainty. Chemical Engineering Journal, 2022, 428, 130971.	6.6	14
78	Automatic generation of accident scenarios in domain specific chemical plants. Journal of Loss Prevention in the Process Industries, 2003, 16, 121-132.	1.7	13
79	Sensitivity analysis of effects of design parameters and decision variables on optimization of natural gas liquefaction process. Energy, 2020, 206, 118132.	4.5	13
80	Gas management in flow field design using 3D direct methanol fuel cell model under high stoichiometric feed. Korean Journal of Chemical Engineering, 2006, 23, 753-760.	1.2	12
81	Integrated Decision Support Model for Hedge Trading and Production Planning in the Petrochemical Industry. Industrial & Engineering Chemistry Research, 2017, 56, 1267-1277.	1.8	12
82	Flexible and efficient renewable-power-to-methane concept enabled by liquid CO2 energy storage: Optimization with power allocation and storage sizing. Energy, 2022, 256, 124583.	4.5	12
83	Characteristics of gas-liquid chromatography. Korean Journal of Chemical Engineering, 1985, 2, 155-161.	1.2	11
84	CPFD simulation of fluidized bed flow in FCC regenerator. Computer Aided Chemical Engineering, 2012, 30, 1153-1157.	0.3	11
85	Quantitative business decision-making for the investment of preventing safety accidents in chemical plants. Computers and Chemical Engineering, 2000, 24, 1037-1041.	2.0	10
86	Optimum operating strategies for liquid-fed direct methanol fuel cells. Journal of Power Sources, 2008, 185, 828-837.	4.0	10
87	Error-free scheduling for batch processes using symbolic model verifier. Journal of Loss Prevention in the Process Industries, 2009, 22, 367-372.	1.7	10
88	Thermodynamic and acoustic properties for binary and ternary mixtures of cyclic ethers with industrially important solvents at 308.15 K. Journal of Molecular Liquids, 2010, 155, 8-15.	2.3	10
89	Parameter-Based Model for the Forecasting of Pipe Corrosion in Refinery Plants. Industrial & Engineering Chemistry Research, 2011, 50, 12626-12629.	1.8	10
90	Design and analysis of multi-stage expander processes for liquefying natural gas. Korean Journal of Chemical Engineering, 2014, 31, 1522-1531.	1.2	10

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91	Dynamic Optimization of a Dual Pressure Swing Adsorption Process for Natural Gas Purification and Carbon Capture. Industrial & Engineering Chemistry Research, 2016, 55, 12444-12451.	1.8	10
92	Energy Optimization via Process Modification To Maximize Economic Feasibility of the Butane Gas-Splitting Process. Industrial & Engineering Chemistry Research, 2020, 59, 18019-18027.	1.8	10
93	Automatic verification of control logics in safety instrumented system design for chemical process industry. Journal of Loss Prevention in the Process Industries, 2009, 22, 975-980.	1.7	9
94	Optimization of naphtha purchase price using a price prediction model. Computers and Chemical Engineering, 2016, 84, 226-236.	2.0	9
95	Uneven distribution of particle flow in RFCC reactor riser. Powder Technology, 2017, 312, 113-123.	2.1	9
96	Technoâ€economic comparison of amine regeneration process with heatâ€stable amine salt reclaiming units. Energy Science and Engineering, 2021, 9, 2529.	1.9	9
97	Advanced design and analysis of BOG treatment process in LNG fueled ship combined with cold energy utilization from LNG gasification. International Journal of Refrigeration, 2022, 135, 231-242.	1.8	9
98	Optimization of start-up operating condition in RPSA. Separation and Purification Technology, 2000, 21, 17-26.	3.9	8
99	Novel Thermal Swing Adsorption Process with a Cooling Jacket for Benzeneâˆ'Tolueneâˆ'p-Xylene Purification. Industrial & Engineering Chemistry Research, 2001, 40, 4973-4982.	1.8	8
100	Multi-scale/multi-physical modeling in head/disk interface of magnetic data storage. Journal of Applied Physics, 2012, 111, 07B712.	1.1	8
101	Forecasting Naphtha Price Crack Using Multiple Regression Analysis. Computer Aided Chemical Engineering, 2012, 31, 145-149.	0.3	8
102	Optimization of a Reactive Distillation Process for the Synthesis of Dialkyl Carbonate Considering Side Reactions. Industrial & Engineering Chemistry Research, 2019, 58, 17898-17905.	1.8	8
103	Development of a rescheduling system for the optimal operation of pipeless plants. Computers and Chemical Engineering, 1999, 23, S523-S526.	2.0	7
104	Analysis of catalytic reaction systems under microwaves to save energy. Korean Journal of Chemical Engineering, 2003, 20, 1-7.	1.2	7
105	Multiobjective Optimization for Safety-related Decision Making in Chemical Processes. Journal of Chemical Engineering of Japan, 2004, 37, 332-337.	0.3	7
106	Development of a web-based emergency preparedness plan system in Korea. Korean Journal of Chemical Engineering, 2011, 28, 2110-2115.	1.2	7
107	Exergy analysis of a simulation of the sulfuric acid decomposition process of the SI cycle for nuclear hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 54-61.	3.8	7
108	Damage reduction strategies against chemical accidents by using a mitigation barrier in Korean chemical risk management. Safety Science, 2018, 110, 29-36.	2.6	7

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109	Time-series clustering approach for training data selection of a data-driven predictive model: Application to an industrial bio 2,3-butanediol distillation process. Computers and Chemical Engineering, 2022, 161, 107758.	2.0	7
110	Safety improvement by a multimedia operator education system. Computers and Chemical Engineering, 1998, 22, S531-S536.	2.0	6
111	INDUSTRIAL APPLICATIONS OF ACCIDENT CAUSATION MANAGEMENT SYSTEM. Chemical Engineering Communications, 2006, 193, 1024-1037.	1.5	6
112	Development of a new automatic system for fault tree analysis for chemical process industries. Korean Journal of Chemical Engineering, 2009, 26, 1429-1440.	1.2	6
113	Model Checking for Automatic Verification of Control Logics in Chemical Processes. Industrial & Engineering Chemistry Research, 2011, 50, 905-915.	1.8	6
114	An Improved Tank in Series Model for the Direct Methanol Fuel Cell. International Journal of Electrochemistry, 2011, 2011, 1-9.	2.4	6
115	Densities and Speeds of Sound of Jatropha curcas Biodiesel + (C₄â€“C₅) Alkan-1-ol Binary Mixtures. Journal of Chemical & Engineering Data, 2012, 57, 2236-2242.	1.0	6
116	Numerical analysis of hydrogen ventilation in a confined facility with various opening sizes, positions and leak quantities. Computer Aided Chemical Engineering, 2017, 40, 559-564.	0.3	6
117	A multistream heat exchanger model with enthalpy feasibility. Computers and Chemical Engineering, 2018, 115, 81-88.	2.0	6
118	Multi-objective optimization of an explosive waste incineration process considering nitrogen oxides emission and process cost by using artificial neural network surrogate models. Chemical Engineering Research and Design, 2022, 162, 813-824.	2.7	6
119	Forecasting of Naphtha Demand and Supply using Time Serial Data Causal Analysis. Computer Aided Chemical Engineering, 2014, , 829-834.	0.3	5
120	Serially Ordered Magnetization of Nanoclusters via Control of Various Transition Metal Dopants for the Multifractionation of Cells in Microfluidic Magnetophoresis Devices. Analytical Chemistry, 2016, 88, 1078-1082.	3.2	5
121	A novel system dynamics model for forecasting naphtha price. Korean Journal of Chemical Engineering, 2018, 35, 1033-1044.	1.2	5
122	Strategies for evaluating distributive mixing of multimodal Lagrangian particles with novel bimodal bin count variance. Powder Technology, 2018, 325, 687-697.	2.1	5
123	Development of a batch manager for dynamic scheduling and process management in multiproduct batch processes. Korean Journal of Chemical Engineering, 2000, 17, 27-32.	1.2	4
124	Integration of qualitative and quantitative risk assessment methods for gas refinery plants. Korean Journal of Chemical Engineering, 2013, 30, 1368-1374.	1.2	4
125	Synthesis of Jatropha Curcas biodiesel and physicochemical investigation of molecular interactions in Jatropha Curcas biodiesel + C2-C3-alkanol blends. Journal of Molecular Liquids, 2013, 181, 55-61.	2.3	4
126	Optimization of Petrochemical Process Planning using Naphtha Price Forecasting and Process Modeling. Computer Aided Chemical Engineering, 2015, , 2039-2044.	0.3	4

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127	Kriging models for forecasting crude unit overhead corrosion. Korean Journal of Chemical Engineering, 2016, 33, 1999-2006.	1.2	4
128	Analysis of air blast effect for explosives in a large scale detonation. Korean Journal of Chemical Engineering, 2017, 34, 3048-3053.	1.2	4
129	Application of Cryogenic Energy Storage to Liquefied Natural Gas Regasification Power Plant. Computer Aided Chemical Engineering, 2017, 40, 2557-2562.	0.3	4
130	Novel index for evaluating continuous mixing process with pulse injection of bimodal tracer particles. Powder Technology, 2019, 355, 309-319.	2.1	4
131	Novel evaluation method for the continuous mixing process of bimodal particles. Powder Technology, 2019, 344, 636-646.	2.1	4
132	Novel Ethylene Oxide Gas Recovery System via Hydrolysis in the Dimethyl Carbonate and Monoethylene Glycol Production Process. Industrial & Engineering Chemistry Research, 2020, 59, 3091-3096.	1.8	4
133	A Framework for Economically Optimal Operation of Explosive Waste Incineration Process to Reduce NOx Emission Concentration. Mathematics, 2021, 9, 2174.	1.1	4
134	Improved search algorithm for the efficient verification of chemical processes. Computers and Chemical Engineering, 1999, 23, S601-S604.	2.0	3
135	Hybrid Fuzzy Modeling of Wastewater Quality with Artificial Intelligence Learning. Environmental Engineering Science, 2008, 25, 941-950.	0.8	3
136	Development of COI classification algorithm for chemical terrorism. Korean Journal of Chemical Engineering, 2013, 30, 559-562.	1.2	3
137	Profit optimization for bio-gas upgrading PSA process based on controlling step-time. Computer Aided Chemical Engineering, 2013, 32, 397-402.	0.3	3
138	Symbolic Verification of Control Systems and Operating Procedures. Industrial & Engineering Chemistry Research, 2014, 53, 5299-5310.	1.8	3
139	Case Studies for Optimizing Energy Efficiency of Propane Cycle Pressure Levels on C3-MR Process. Journal of the Korean Institute of Gas, 2011, 15, 38-43.	0.1	3
140	Superstructure of yOTs-the network-based chemical process operator training system for multiple trainees. Korean Journal of Chemical Engineering, 2001, 18, 788-795.	1.2	2
141	Automatic accident scenario generation for petrochemical processes. Computer Aided Chemical Engineering, 2001, 9, 895-900.	0.3	2
142	Evaluation of safety instrumented systems using reliability analysis. Process Safety Progress, 2003, 22, 169-173.	0.4	2
143	Equipment selection for the optimal system unavailability of jacketed reactors with discrete cost data. Journal of Loss Prevention in the Process Industries, 2003, 16, 443-448.	1.7	2
144	Graphical modeling for the safety verification of chemical processes. Computer Aided Chemical Engineering, 2006, 21, 1509-1514.	0.3	2

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145	AN IMPROVED PEMFC MODEL WITH A NEW INTERFACE MASS TRANSFER SUBMODEL WITHOUT EMPIRICAL COEFFICIENTS. Chemical Engineering Communications, 2007, 194, 1531-1542.	1.5	2
146	A Heuristic-Embedded Scheduling System for a Pharmaceutical Intermediates Manufacturing Plant. Industrial & Engineering Chemistry Research, 2010, 49, 12646-12653.	1.8	2
147	Speed of Sound and Excess Isentropic Compressibility of 1,3-Dioxolane or 1,4-Dioxane + Butan-1-ol or + Butan-2-ol Binary Mixtures at 308.15 K and Atmospheric Pressure. Industrial & Engineering Chemistry Research, 2010, 49, 8365-8368.	1.8	2
148	Is it possible to improve creativity? If yes, how do we do it?. Computer Aided Chemical Engineering, 2011, 29, 1130-1134.	0.3	2
149	CPFD Simulation for Particle Deposit Formation in Reactor Cyclone of RFCC. Computer Aided Chemical Engineering, 2012, , 915-919.	0.3	2
150	Development of a safety education system for SMB operation. Computer Aided Chemical Engineering, 2012, 30, 1417-1421.	0.3	2
151	Optimization of Pure-Refrigerant Cycle Compressing Ratio on C3-MR Process. Computer Aided Chemical Engineering, 2012, 31, 1472-1476.	0.3	2
152	Optimal Operating Condition of Fluidized Bed Propellant Incinerator Considering Fluidization Effect and Reaction of the Particles. Computer Aided Chemical Engineering, 2016, 38, 1147-1152.	0.3	2
153	Response to â€œLetter to the Editor: Improvements of safety management system in Korean chemical industry after a large chemical accidentâ€• Journal of Loss Prevention in the Process Industries, 2016, 40, 618-619.	1.7	2
154	Additional data on damage reduction strategies against chemical accidents by using a mitigation barrier in Korean chemical risk management. Data in Brief, 2018, 20, 1753-1757.	0.5	2
155	Development of a hazardous material selection procedure for the chemical accident response manual. Korean Journal of Chemical Engineering, 2019, 36, 333-344.	1.2	2
156	Development of Novel Flow Distribution Apparatus for Simulated Moving Bed to Improve Degree of Mixing. Computers and Chemical Engineering, 2021, 156, 107553.	2.0	2
157	An effect of explosion venting panel using CFD in low pressure hydrogen facilities. Computer Aided Chemical Engineering, 2018, 43, 1105-1110.	0.3	2
158	Effect of radial distribution of injected flow on simulated moving bed performance. Journal of Chromatography A, 2022, 1662, 462703.	1.8	2
159	Automatic accident scenario generation and multiobjective optimization for safety-related decision making in chemical processes. Computer Aided Chemical Engineering, 2004, , 937-942.	0.3	1
160	Modeling and verification of control logics in safety instrumented system for chemical industrial processes. Computer Aided Chemical Engineering, 2007, , 1265-1270.	0.3	1
161	Automatic Synthesis for the Reachability of Process Systems with a Model Checking Algorithm. Industrial & Engineering Chemistry Research, 2013, 52, 2613-2624.	1.8	1
162	Web-based multi-dimensional education system for the simulated moving bed process. Korean Journal of Chemical Engineering, 2014, 31, 1736-1745.	1.2	1

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163	Current Status of Optimal Design of Natural Gas Liquefaction Process. Computer Aided Chemical Engineering, 2014, 34, 561-566.	0.3	1
164	Data on conceptual design of cryogenic energy storage system combined with liquefied natural gas regasification process. Data in Brief, 2017, 15, 733-737.	0.5	1
165	Raw material supply strategy for petrochemical process under market uncertainty. Computer Aided Chemical Engineering, 2018, 44, 1519-1524.	0.3	1
166	Public Protection Integrated Program Development for Chemical and Radiological Disasters. Computer Aided Chemical Engineering, 2014, , 823-828.	0.3	1
167	Analysis of Pure Refrigerant Cycle Design on C3MR Process through Driver Selection. Journal of the Korean Institute of Gas, 2013, 17, 27-32.	0.1	1
168	Maximum Pressure and the Blast Wave Analysis of a Amount of HMX. Korean Chemical Engineering Research, 2014, 52, 706-712.	0.2	1
169	Analysis of thermal regeneration of cyclic TSA process. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 299-304.	0.4	0
170	Automatic Verification of Biochemical Network Using Model Checking Method. Chinese Journal of Chemical Engineering, 2008, 16, 90-94.	1.7	0
171	A novel scheduling model for pharmaceutical industries using heuristic techniques. , 2008, , .		0
172	Corrosion Control Document Database System in Refinery Industry. Computer Aided Chemical Engineering, 2009, , 1839-1844.	0.3	0
173	Automatic verification of operating schedules for batch processes using symbolic model checking: Latch model vs. real-time. Korean Journal of Chemical Engineering, 2010, 27, 1654-1661.	1.2	0
174	Advanced Korean Industrial Safety and Health Policy with Risk Assessment. Safety and Health at Work, 2010, 1, 29-36.	0.3	0
175	Recipe-based Batch Process Engineering Tool for Development Workflow. Computer Aided Chemical Engineering, 2011, 29, 1100-1104.	0.3	0
176	Volumetric Properties of 1,3-DioxolaneÂ+ÂTolueneÂ+Âo- or p-Xylene Ternary Mixtures at 25.00ÂÂ°C and Atmospheric Pressure. Journal of Solution Chemistry, 2013, 42, 936-944.	0.6	0
177	Simulation of Reaction in a Fluidized Bed Incinerator with Mixing Ratio of Double Based Propellant and Water. Computer Aided Chemical Engineering, 2018, 44, 1999-2004.	0.3	0
178	Flow diagram of waste double base propellant treatment including fluidized bed reactor. Computer Aided Chemical Engineering, 2018, 43, 1433-1438.	0.3	0
179	Optimization of biogas autothermal reforming integrated with PEM based on renewable energy. Computer Aided Chemical Engineering, 2021, 50, 1523-1528.	0.3	0
180	A Method for Estimating Mass Transfer Coefficients in a Packed Column Using Reactive Absorption Data. Collection of Czechoslovak Chemical Communications, 2005, 70, 383-402.	1.0	0

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