

Il Moon

List of Publications by Year in descending order

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183
papers

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citations

109137

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183
docs citations

183
times ranked

3720
citing authors

#	ARTICLE	IF	CITATIONS
1	Adversarial Autoencoder Based Feature Learning for Fault Detection in Industrial Processes. IEEE Transactions on Industrial Informatics, 2022, 18, 827-834.	7.2	44
2	Data-driven robust optimization for minimum nitrogen oxide emission under process uncertainty. Chemical Engineering Journal, 2022, 428, 130971.	6.6	14
3	Continuous and flexible Renewable-Power-to-Methane via liquid CO ₂ energy storage: Revisiting the techno-economic potential. Renewable and Sustainable Energy Reviews, 2022, 153, 111732.	8.2	38
4	Effect of radial distribution of injected flow on simulated moving bed performance. Journal of Chromatography A, 2022, 1662, 462703.	1.8	2
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Multi-objective optimization of CO ₂ 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
13	Flexible and efficient renewable-power-to-methane concept enabled by liquid CO ₂ energy storage: Optimization with power allocation and storage sizing. Energy, 2022, 256, 124583.	4.5	12
14	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
15	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
16	Developed hydrogen liquefaction process using liquefied natural gas cold energy: Design, energy optimization, and techno-economic feasibility. International Journal of Energy Research, 2021, 45, 14745-14760.	2.2	24
17	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
18	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

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19	A Framework for Economically Optimal Operation of Explosive Waste Incineration Process to Reduce NOx Emission Concentration. <i>Mathematics</i> , 2021, 9, 2174.	1.1	4
20	Development of Novel Flow Distribution Apparatus for Simulated Moving Bed to Improve Degree of Mixing. <i>Computers and Chemical Engineering</i> , 2021, 156, 107553.	2.0	2
21	Machine learning-based energy optimization for on-site SMR hydrogen production. <i>Energy Conversion and Management</i> , 2021, 244, 114438.	4.4	40
22	Optimization of biogas autothermal reforming integrated with PEM based on renewable energy. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 1523-1528.	0.3	0
23	Techno-economic comparison of amine regeneration process with heat-stable amine salt reclaiming units. <i>Energy Science and Engineering</i> , 2021, 9, 2529.	1.9	9
24	Finding the best operating condition in a novel process for explosive waste incineration using fluidized bed reactors. <i>Computers and Chemical Engineering</i> , 2020, 142, 107054.	2.0	15
25	Energy Optimization via Process Modification To Maximize Economic Feasibility of the Butane Gas-Splitting Process. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18019-18027.	1.8	10
26	Double-Tube Reactor Design and Process Optimization for On-Site Steam Methane Reforming Processes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18028-18038.	1.8	30
27	Sensitivity analysis of effects of design parameters and decision variables on optimization of natural gas liquefaction process. <i>Energy</i> , 2020, 206, 118132.	4.5	13
28	Advanced integration of LNG regasification power plant with liquid air energy storage: Enhancements in flexibility, safety, and power generation. <i>Applied Energy</i> , 2020, 269, 115049.	5.1	96
29	Exergoeconomic optimization of liquid air production by use of liquefied natural gas cold energy. <i>Energy</i> , 2020, 207, 118193.	4.5	25
30	Novel Ethylene Oxide Gas Recovery System via Hydrolysis in the Dimethyl Carbonate and Monoethylene Glycol Production Process. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3091-3096.	1.8	4
31	Novel massive thermal energy storage system for liquefied natural gas cold energy recovery. <i>Energy</i> , 2020, 195, 117022.	4.5	34
32	Simulation and economic assessment of using H ₂ O ₂ solution in wet scrubber for large marine vessels. <i>Energy</i> , 2020, 194, 116907.	4.5	16
33	Optimization of a Reactive Distillation Process for the Synthesis of Dialkyl Carbonate Considering Side Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17898-17905.	1.8	8
34	Novel index for evaluating continuous mixing process with pulse injection of bimodal tracer particles. <i>Powder Technology</i> , 2019, 355, 309-319.	2.1	4
35	Economic Process Selection of Liquefied Natural Gas Regasification: Power Generation and Energy Storage Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4946-4956.	1.8	41
36	Development of a hazardous material selection procedure for the chemical accident response manual. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 333-344.	1.2	2

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37	A novel cryogenic energy storage system with LNG direct expansion regasification: Design, energy optimization, and exergy analysis. <i>Energy</i> , 2019, 173, 691-705.	4.5	60
38	Novel evaluation method for the continuous mixing process of bimodal particles. <i>Powder Technology</i> , 2019, 344, 636-646.	2.1	4
39	A novel system dynamics model for forecasting naphtha price. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1033-1044.	1.2	5
40	Strategies for evaluating distributive mixing of multimodal Lagrangian particles with novel bimodal bin count variance. <i>Powder Technology</i> , 2018, 325, 687-697.	2.1	5
41	Key Issues and Challenges on the Liquefied Natural Gas Value Chain: A Review from the Process Systems Engineering Point of View. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5805-5818.	1.8	55
42	A multistream heat exchanger model with enthalpy feasibility. <i>Computers and Chemical Engineering</i> , 2018, 115, 81-88.	2.0	6
43	Moving boundary modeling for solid propellant combustion. <i>Combustion and Flame</i> , 2018, 189, 12-23.	2.8	23
44	Strategies for Process and Size Selection of Natural Gas Liquefaction Processes: Specific Profit Portfolio Approach by Economic Based Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5845-5857.	1.8	25
45	Simulation of Reaction in a Fluidized Bed Incinerator with Mixing Ratio of Double Based Propellant and Water. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1999-2004.	0.3	0
46	Additional data on damage reduction strategies against chemical accidents by using a mitigation barrier in Korean chemical risk management. <i>Data in Brief</i> , 2018, 20, 1753-1757.	0.5	2
47	Raw material supply strategy for petrochemical process under market uncertainty. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1519-1524.	0.3	1
48	Design of a Novel Process for Continuous Lactide Synthesis from Lactic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11955-11962.	1.8	26
49	Damage reduction strategies against chemical accidents by using a mitigation barrier in Korean chemical risk management. <i>Safety Science</i> , 2018, 110, 29-36.	2.6	7
50	Flow diagram of waste double base propellant treatment including fluidized bed reactor. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 1433-1438.	0.3	0
51	An effect of explosion venting panel using CFD in low pressure hydrogen facilities. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 1105-1110.	0.3	2
52	A Novel Design of Liquefied Natural Gas (LNG) Regasification Power Plant Integrated with Cryogenic Energy Storage System. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1288-1296.	1.8	34
53	Integrated Decision Support Model for Hedge Trading and Production Planning in the Petrochemical Industry. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1267-1277.	1.8	12
54	Economic Optimization of Dual Mixed Refrigerant Liquefied Natural Gas Plant Considering Natural Gas Extraction Rate. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2804-2814.	1.8	39

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55	Uneven distribution of particle flow in RFCC reactor riser. Powder Technology, 2017, 312, 113-123.	2.1	9
56	Safety Analysis Embedded in Heat Exchanger Network Synthesis. Computers and Chemical Engineering, 2017, 107, 357-380.	2.0	31
57	Analysis of air blast effect for explosives in a large scale detonation. Korean Journal of Chemical Engineering, 2017, 34, 3048-3053.	1.2	4
58	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
59	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
60	Application of Cryogenic Energy Storage to Liquefied Natural Gas Regasification Power Plant. Computer Aided Chemical Engineering, 2017, 40, 2557-2562.	0.3	4
61	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
62	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
63	Response to "Letter to the Editor: Improvements of safety management system in Korean chemical industry after a large chemical accident". Journal of Loss Prevention in the Process Industries, 2016, 40, 618-619.	1.7	2
64	Kriging models for forecasting crude unit overhead corrosion. Korean Journal of Chemical Engineering, 2016, 33, 1999-2006.	1.2	4
65	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
66	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
67	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
68	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
69	Optimization of naphtha purchase price using a price prediction model. Computers and Chemical Engineering, 2016, 84, 226-236.	2.0	9
70	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
71	Proposal and Analysis of DMR Process with Hydrofluorocarbon Refrigerants. Journal of the Korean Institute of Gas, 2016, 20, 62-67.	0.1	0
72	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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73	Decision Making on Liquefaction Ratio for Minimizing Specific Energy in a LNG Pilot Plant. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12920-12927.	1.8	26
74	Measurement and correlation of excess molar volumes for mixtures of 1-propanol and aromatic hydrocarbons. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 168-177.	1.2	28
75	Modeling of thermodynamic properties of an oxygenate+aromatic hydrocarbon: Excess molar enthalpy. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 23, 299-306.	2.9	30
76	Comparison of Multistage Compression Configurations for Single Mixed Refrigerant Processes. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9992-10000.	1.8	36
77	Web-based multi-dimensional education system for the simulated moving bed process. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1736-1745.	1.2	1
78	Current Status of Optimal Design of Natural Gas Liquefaction Process. <i>Computer Aided Chemical Engineering</i> , 2014, 34, 561-566.	0.3	1
79	Design and Optimization of a Pure Refrigerant Cycle for Natural Gas Liquefaction with Subcooling. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10397-10403.	1.8	46
80	Ionic liquid-amine blends and CO ₂ BOLs: Prospective solvents for natural gas sweetening and CO ₂ capture technology—A review. <i>International Journal of Greenhouse Gas Control</i> , 2014, 20, 87-116.	2.3	158
81	Forecasting of Naphtha Demand and Supply using Time Serial Data Causal Analysis. <i>Computer Aided Chemical Engineering</i> , 2014, , 829-834.	0.3	5
82	Symbolic Verification of Control Systems and Operating Procedures. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5299-5310.	1.8	3
83	Design and analysis of multi-stage expander processes for liquefying natural gas. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1522-1531.	1.2	10
84	Exergy analysis of a simulation of the sulfuric acid decomposition process of the SI cycle for nuclear hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 54-61.	3.8	7
85	Efficient Configuration of a Natural Gas Liquefaction Process for Energy Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1973-1985.	1.8	41
86	Public Protection Integrated Program Development for Chemical and Radiological Disasters. <i>Computer Aided Chemical Engineering</i> , 2014, , 823-828.	0.3	1
87	Maximum Pressure and the Blast Wave Analysis of a Amount of HMX. <i>Korean Chemical Engineering Research</i> , 2014, 52, 706-712.	0.2	1
88	Automatic Synthesis for the Reachability of Process Systems with a Model Checking Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 2613-2624.	1.8	1
89	Simulation and experimental study on the sulfuric acid decomposition process of SI cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5507-5516.	3.8	21
90	Integration of qualitative and quantitative risk assessment methods for gas refinery plants. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1368-1374.	1.2	4

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91	Development of COI classification algorithm for chemical terrorism. Korean Journal of Chemical Engineering, 2013, 30, 559-562.	1.2	3
92	Volumetric Properties of 1,3-Dioxolane+Toluene- or p-Xylene Ternary Mixtures at 25.00°C and Atmospheric Pressure. Journal of Solution Chemistry, 2013, 42, 936-944.	0.6	0
93	Current Status and Perspectives of Liquefied Natural Gas (LNG) Plant Design. Industrial & Engineering Chemistry Research, 2013, 52, 3065-3088.	1.8	226
94	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
95	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
96	Advances in diesel-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
97	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
98	Profit optimization for bio-gas upgrading PSA process based on controlling step-time. Computer Aided Chemical Engineering, 2013, 32, 397-402.	0.3	3
99	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
100	CPFD Simulation for Particle Deposit Formation in Reactor Cyclone of RFCC. Computer Aided Chemical Engineering, 2012, , 915-919.	0.3	2
101	Multi-scale/multi-physical modeling in head/disk interface of magnetic data storage. Journal of Applied Physics, 2012, 111, 07B712.	1.1	8
102	Development of a safety education system for SMB operation. Computer Aided Chemical Engineering, 2012, 30, 1417-1421.	0.3	2
103	Optimization of Procurement and Production Planning Model in Refinery Processes Considering Corrosion Effect. Industrial & Engineering Chemistry Research, 2012, 51, 10191-10200.	1.8	20
104	CPFD simulation of fluidized bed flow in FCC regenerator. Computer Aided Chemical Engineering, 2012, 30, 1153-1157.	0.3	11
105	Optimization of Pure-Refrigerant Cycle Compressing Ratio on C3-MR Process. Computer Aided Chemical Engineering, 2012, 31, 1472-1476.	0.3	2
106	Densities and Speeds of Sound of Jatropha curcas Biodiesel + (C ₄ -C ₅) Alkan-1-ol Binary Mixtures. Journal of Chemical & Engineering Data, 2012, 57, 2236-2242.	1.0	6
107	Forecasting Naphtha Price Crack Using Multiple Regression Analysis. Computer Aided Chemical Engineering, 2012, 31, 145-149.	0.3	8
108	Parameter-Based Model for the Forecasting of Pipe Corrosion in Refinery Plants. Industrial & Engineering Chemistry Research, 2011, 50, 12626-12629.	1.8	10

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109	Model Checking for Automatic Verification of Control Logics in Chemical Processes. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 905-915.	1.8	6
110	Physicochemical Properties of Jatropha Curcas Biodiesel + Diesel Fuel No. 2 Binary Mixture at $T = (288.15 \text{ to } 308.15) \text{ K}$ and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 497-501.	1.0	17
111	Development of Corrosion Control Document Database System in Crude Distillation Unit. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 8272-8277.	1.8	21
112	Optimization of mixed-refrigerant system in LNG liquefaction process. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1824-1828.	0.3	15
113	Recipe-based Batch Process Engineering Tool for Development Workflow. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1100-1104.	0.3	0
114	An Improved Tank in Series Model for the Direct Methanol Fuel Cell. <i>International Journal of Electrochemistry</i> , 2011, 2011, 1-9.	2.4	6
115	Is it possible to improve creativity? If yes, how do we do it?. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1130-1134.	0.3	2
116	LNG: An eco-friendly cryogenic fuel for sustainable development. <i>Applied Energy</i> , 2011, 88, 4264-4273.	5.1	418
117	Development of Korean hydrogen fueling station codes through risk analysis. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13122-13131.	3.8	36
118	Development of a web-based emergency preparedness plan system in Korea. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 2110-2115.	1.2	7
119	Current status and future projections of LNG demand and supplies: A global prospective. <i>Energy Policy</i> , 2011, 39, 4097-4104.	4.2	171
120	An index-based risk assessment model for hydrogen infrastructure. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6387-6398.	3.8	39
121	10.2478/s11814-009-0253-0. , 2011, 26, 1429.		0
122	Development of a Forecasting Model for Refinery Crude Column Overhead Corrosion Control. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2011, 35, 143-148.	0.1	0
123	Case Studies for Optimizing Energy Efficiency of Propane Cycle Pressure Levels on C3-MR Process. <i>Journal of the Korean Institute of Gas</i> , 2011, 15, 38-43.	0.1	3
124	Development of a risk assessment program for chemical terrorism. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 399-408.	1.2	15
125	Automatic verification of operating schedules for batch processes using symbolic model checking: Latch model vs. real-time. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1654-1661.	1.2	0
126	Thermodynamic Investigation of Molecular Interactions in 1,3-Dioxolane or 1,4-Dioxane+Benzene or Toluene+Formamide or +N,N-Dimethylformamide Ternary Mixtures at 308.15ÅK and Atmospheric Pressure. <i>Journal of Solution Chemistry</i> , 2010, 39, 680-691.	0.6	17

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127	Thermodynamic and acoustic properties for binary and ternary mixtures of cyclic ethers with industrially important solvents at 308.15 K. <i>Journal of Molecular Liquids</i> , 2010, 155, 8-15.	2.3	10
128	Development of a web-based 3D virtual reality program for hydrogen station. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 2112-2118.	3.8	19
129	Advanced Korean Industrial Safety and Health Policy with Risk Assessment. <i>Safety and Health at Work</i> , 2010, 1, 29-36.	0.3	0
130	A Heuristic-Embedded Scheduling System for a Pharmaceutical Intermediates Manufacturing Plant. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12646-12653.	1.8	2
131	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. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 8365-8368.	1.8	2
132	Corrosion Control Document Database System in Refinery Industry. <i>Computer Aided Chemical Engineering</i> , 2009, , 1839-1844.	0.3	0
133	A simultaneous optimization approach for the design of wastewater and heat exchange networks based on cost estimation. <i>Journal of Cleaner Production</i> , 2009, 17, 162-171.	4.6	64
134	Development of a new automatic system for fault tree analysis for chemical process industries. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 1429-1440.	1.2	6
135	Error-free scheduling for batch processes using symbolic model verifier. <i>Journal of Loss Prevention in the Process Industries</i> , 2009, 22, 367-372.	1.7	10
136	Automatic verification of control logics in safety instrumented system design for chemical process industry. <i>Journal of Loss Prevention in the Process Industries</i> , 2009, 22, 975-980.	1.7	9
137	Application of TRIZ creativity intensification approach to chemical process safety. <i>Journal of Loss Prevention in the Process Industries</i> , 2009, 22, 1039-1043.	1.7	39
138	Optimum operating strategies for liquid-fed direct methanol fuel cells. <i>Journal of Power Sources</i> , 2008, 185, 828-837.	4.0	10
139	Optimization of a hydrogen supply chain under demand uncertainty. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4715-4729.	3.8	148
140	Strategic design of hydrogen infrastructure considering cost and safety using multiobjective optimization. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5887-5896.	3.8	109
141	The role of hydrogen in the road transportation sector for a sustainable energy system: A case study of Korea. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 7326-7337.	3.8	75
142	Automatic Verification of Biochemical Network Using Model Checking Method. <i>Chinese Journal of Chemical Engineering</i> , 2008, 16, 90-94.	1.7	0
143	A novel scheduling model for pharmaceutical industries using heuristic techniques. , 2008, , .		0
144	Hybrid Fuzzy Modeling of Wastewater Quality with Artificial Intelligence Learning. <i>Environmental Engineering Science</i> , 2008, 25, 941-950.	0.8	3

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145	Modeling and verification of control logics in safety instrumented system for chemical industrial processes. <i>Computer Aided Chemical Engineering</i> , 2007, , 1265-1270.	0.3	1
146	AN IMPROVED PEMFC MODEL WITH A NEW INTERFACE MASS TRANSFER SUBMODEL WITHOUT EMPIRICAL COEFFICIENTS. <i>Chemical Engineering Communications</i> , 2007, 194, 1531-1542.	1.5	2
147	A discrete multi states model for the biological production of hydrogen by phototrophic microalga. <i>Biochemical Engineering Journal</i> , 2007, 36, 19-27.	1.8	15
148	Integrated water resource management through water reuse network design for clean production technology: State of the art. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 567-576.	1.2	19
149	Synthesis and applications of unsaturated polyester resins based on PET waste. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 1076-1083.	1.2	37
150	INDUSTRIAL APPLICATIONS OF ACCIDENT CAUSATION MANAGEMENT SYSTEM. <i>Chemical Engineering Communications</i> , 2006, 193, 1024-1037.	1.5	6
151	Graphical modeling for the safety verification of chemical processes. <i>Computer Aided Chemical Engineering</i> , 2006, 21, 1509-1514.	0.3	2
152	Three-dimensional, two-phase, CFD model for the design of a direct methanol fuel cell. <i>Journal of Power Sources</i> , 2006, 162, 992-1002.	4.0	39
153	Integration of accident scenario generation and multiobjective optimization for safety-cost decision making in chemical processes. <i>Journal of Loss Prevention in the Process Industries</i> , 2006, 19, 705-713.	1.7	21
154	Gas management in flow field design using 3D direct methanol fuel cell model under high stoichiometric feed. <i>Korean Journal of Chemical Engineering</i> , 2006, 23, 753-760.	1.2	12
155	A Method for Estimating Mass Transfer Coefficients in a Packed Column Using Reactive Absorption Data. <i>Collection of Czechoslovak Chemical Communications</i> , 2005, 70, 383-402.	1.0	0
156	Automatic accident scenario generation and multiobjective optimization for safety-related decision making in chemical processes. <i>Computer Aided Chemical Engineering</i> , 2004, , 937-942.	0.3	1
157	Chemical composition of major VOC emission sources in the Seoul atmosphere. <i>Chemosphere</i> , 2004, 55, 585-594.	4.2	139
158	Multiobjective Optimization for Safety-related Decision Making in Chemical Processes. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 332-337.	0.3	7
159	Analysis of catalytic reaction systems under microwaves to save energy. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 1-7.	1.2	7
160	Automatic generation of accident scenarios in domain specific chemical plants. <i>Journal of Loss Prevention in the Process Industries</i> , 2003, 16, 121-132.	1.7	13
161	Evaluation of safety instrumented systems using reliability analysis. <i>Process Safety Progress</i> , 2003, 22, 169-173.	0.4	2
162	The use of plastic optical fibers in photocatalysis of trichloroethylene. <i>Solar Energy Materials and Solar Cells</i> , 2003, 79, 93-101.	3.0	34

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