Kexin Bi

List of Publications by Year
in descending order

29 papers	425 citations	687363 13 h-index	752698 20 g-index
29 all docs	29 docs citations	29 times ranked	239 citing authors

#	Article	IF	Citations
1	Three-scale integrated optimization model of furnace simulation, cyclic scheduling, and supply chain of ethylene plants. Chinese Journal of Chemical Engineering, 2022, 44, 29-40.	3.5	2
2	A dynamic-inner convolutional autoencoder for process monitoring. Computers and Chemical Engineering, 2022, 158, 107654.	3.8	13
3	Semi-supervised LSTM ladder autoencoder for chemical process fault diagnosis and localization. Chemical Engineering Science, 2022, 251, 117467.	3.8	29
4	Machine-Learning-Guided Identification of Coordination Polymer Ligands for Crystallizing Separation of Cs/Sr. ACS Applied Materials & Interfaces, 2022, 14, 33076-33084.	8.0	3
5	Environmental and techno-economic analyses of bio-jet fuel produced from jatropha and castor oilseeds in China. International Journal of Life Cycle Assessment, 2021, 26, 1071-1084.	4.7	10
6	Knowledge expression, numerical modeling and optimization application of ethylene thermal cracking: From the perspective of intelligent manufacturing. Chinese Journal of Chemical Engineering, 2021, 38, 1-17.	3.5	17
7	A life cycle assessment of hard carbon anodes for sodium-ion batteries. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200340.	3.4	10
8	An Innovative Graph Neural Network Model for Detailed Effluent Prediction in Steam Cracking. Industrial & Engineering Chemistry Research, 2021, 60, 18432-18442.	3.7	8
9	Bidirectional Recurrent Neural Network-Based Chemical Process Fault Diagnosis. Industrial & Engineering Chemistry Research, 2020, 59, 824-834.	3.7	63
10	GC-MS Fingerprints Profiling Using Machine Learning Models for Food Flavor Prediction. Processes, 2020, 8, 23.	2.8	14
11	Integrated Modeling of Transfer Learning and Intelligent Heuristic Optimization for a Steam Cracking Process. Industrial & Engineering Chemistry Research, 2020, 59, 16357-16367.	3.7	16
12	A Deep Learning Method for Yogurt Preferences Prediction Using Sensory Attributes. Processes, 2020, 8, 518.	2.8	14
13	Novel Naphtha Molecular Reconstruction Process Using a Self-Adaptive Cloud Model and Hybrid Genetic Algorithm€"Particle Swarm Optimization Algorithm. Industrial & Engineering Chemistry Research, 2019, 58, 16753-16760.	3.7	19
14	An intelligent SVM modeling process for crude oil properties prediction based on a hybrid GA-PSO method. Chinese Journal of Chemical Engineering, 2019, 27, 1888-1894.	3.5	34
15	Molecular reconstruction model based on structure oriented lumping and group contribution methods. Chinese Journal of Chemical Engineering, 2018, 26, 1677-1683.	3.5	17
16	Application of convolutional neural networks to large-scale naphtha pyrolysis kinetic modeling. Chinese Journal of Chemical Engineering, 2018, 26, 2562-2572.	3.5	21
17	Coupled simulation of recirculation zonal firebox model and detailed kinetic reactor model in an industrial ethylene cracking furnace. Chinese Journal of Chemical Engineering, 2017, 25, 1091-1100.	3.5	22
18	Improved Resource-Task Network-Based Flare Minimization Model for Ethylene Plant Start-up: Rigorous Treatment of Cracking Furnace and High-Pressure Steam. Industrial & Engineering Chemistry Research, 2015, 54, 6326-6333.	3.7	4

#	Article	IF	Citations
19	Flare Minimization during Start-Ups of an Integrated Cryogenic Separation System via Dynamic Simulation. Industrial & Engineering Chemistry Research, 2014, 53, 1553-1562.	3.7	16
20	Novel Method for Considering Process Flexibility and Stability Simultaneously. Industrial & Engineering Chemistry Research, 2014, 53, 14765-14775.	3.7	5
21	Shutdown Strategy for Flare Minimization at an Olefin Plant. Chemical Engineering and Technology, 2014, 37, 605-610.	1.5	12
22	Method for Regulating Oscillatory Dynamic Behavior in a <i>Zymomonas mobiliz</i> Continuous Fermentation Process. Industrial & Engineering Chemistry Research, 2014, 53, 12399-12410.	3.7	10
23	Flare Minimization Model for Ethylene Splitter Systemâ€™s Shutdown. Industrial & Engineering Chemistry Research, 2013, 52, 9180-9188.	3.7	9
24	Analysis of Hopf Points for a Zymomonas mobilis Continuous Fermentation Process Producing Ethanol. Industrial & Engineering Chemistry Research, 2013, 52, 1645-1655.	3.7	18
25	Fluid dynamic numerical simulation coupled with heat transfer and reaction in the tubular reactor of industrial cracking furnaces. International Journal for Numerical Methods in Fluids, 2010, 62, 355-373.	1.6	2
26	Numerical Analysis Tool for Obtaining Steady-State Solutions and Analyzing Their Stability Characteristics for Nonlinear Dynamic Systems. Journal of Chemical Engineering of Japan, 2010, 43, 394-400.	0.6	15
27	Layered digraph model for HAZOP analysis of chemical processes. Process Safety Progress, 2008, 27, 293-305.	1.0	18
28	A New Simple Effective Continuous-time Model for Scheduling of General Batch Plants.. Journal of Chemical Engineering of Japan, 2002, 35, 1001-1011.	0.6	1
29	Simulation and Optimization of Multi-period Steam Cracking Process. , 0, , .		3