Ao Yang

List of Publications by Year
in descending order

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Version: 2024-02-01

33	1,748	236925 25	434195 31
papers	citations	h-index	g-index

33	33	33	421
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and control of pressureâ€swing distillation for separating ternary systems with three binary minimum azeotropes. AICHE Journal, 2019, 65, 1281-1293.	3.6	167
2	Optimal Design and Effective Control of Triple-Column Extractive Distillation for Separating Ethyl Acetate/Ethanol/Water with Multiazeotrope. Industrial & Engineering Chemistry Research, 2019, 58, 7265-7283.	3.7	126
3	Energy-saving investigation for diethyl carbonate synthesis through the reactive dividing wall column combining the vapor recompression heat pump or different pressure thermally coupled technique. Energy, 2019, 172, 320-332.	8.8	114
4	Extractive distillation: Advances in conceptual design, solvent selection, and separation strategies. Chinese Journal of Chemical Engineering, 2019, 27, 1247-1256.	3.5	90
5	Investigation of energy-saving azeotropic dividing wall column to achieve cleaner production via heat exchanger network and heat pump technique. Journal of Cleaner Production, 2019, 234, 410-422.	9.3	83
6	Optimization and control of energy saving side-stream extractive distillation with heat integration for separating ethyl acetate-ethanol azeotrope. Chemical Engineering Science, 2020, 215, 115373.	3.8	83
7	Investigation of an energy-saving double-thermally coupled extractive distillation for separating ternary system benzene/toluene/cyclohexane. Energy, 2019, 186, 115756.	8.8	80
8	Towards sustainable separation of the ternary azeotropic mixture based on the intensified reactive-extractive distillation configurations and multi-objective particle swarm optimization. Journal of Cleaner Production, 2022, 332, 130116.	9.3	77
9	Multi-objective optimization of organic Rankine cycle system for the waste heat recovery in the heat pump assisted reactive dividing wall column. Energy Conversion and Management, 2019, 199, 112041.	9.2	76
10	Energy-Saving Optimal Design and Effective Control of Heat Integration-Extractive Dividing Wall Column for Separating Heterogeneous Mixture Methanol/Toluene/Water with Multiazeotropes. Industrial & Engineering Chemistry Research, 2018, 57, 8036-8056.	3.7	75
11	Investigation on ternary system tetrahydrofuran/ethanol/water with three azeotropes separation via the combination of reactive and extractive distillation. Journal of Cleaner Production, 2020, 273, 123145.	9.3	74
12	Investigation of energy-efficient and sustainable reactive/pressure-swing distillation processes to recover tetrahydrofuran and ethanol from the industrial effluent. Separation and Purification Technology, 2020, 250, 117210.	7.9	60
13	Energy-efficient extractive pressure-swing distillation for separating binary minimum azeotropic mixture dimethyl carbonate and ethanol. Separation and Purification Technology, 2019, 229, 115817.	7.9	57
14	Optimal Design and Effective Control of the tert-Amyl Methyl Ether Production Process Using an Integrated Reactive Dividing Wall and Pressure Swing Columns. Industrial & Engineering Chemistry Research, 2017, 56, 14565-14581.	3.7	52
15	The separation of ternary azeotropic mixture: Thermodynamic insight and improved multi-objective optimization. Energy, 2020, 206, 118117.	8.8	51
16	Sustainable design and multi-objective optimization of eco-efficient extractive distillation with single and double entrainer(s) for separating the ternary azeotropic mixture tetrahydrofuran/ethanol/methanol. Separation and Purification Technology, 2022, 285, 120413.	7.9	49
17	Comparative optimal design and control of two alternative approaches for separating heterogeneous mixtures isopropyl alcohol-isopropyl acetate-water with four azeotropes. Separation and Purification Technology, 2019, 225, 1-17.	7.9	44
18	Dynamic controllability investigation of an energy-saving double side-stream ternary extractive distillation process. Separation and Purification Technology, 2019, 225, 41-53.	7.9	43

#	Article	IF	Citations
19	Energy-efficient recovery of tetrahydrofuran and ethyl acetate by triple-column extractive distillation: entrainer design and process optimization. Frontiers of Chemical Science and Engineering, 2022, 16, 303-315.	4.4	42
20	Improved process design and optimization of 200 kt/a ethylene glycol production using coal-based syngas. Chemical Engineering Research and Design, 2018, 132, 551-563.	5.6	40
21	Advanced exergy analysis of organic Rankine Cycles for Fischer-Tropsch syngas production with parallel dry and steam methane reforming. Energy Conversion and Management, 2019, 199, 111963.	9.2	40
22	Insights on sustainable separation of ternary azeotropic mixture tetrahydrofuran/ethyl acetate/water using hybrid vapor recompression assisted side-stream extractive distillation. Separation and Purification Technology, 2022, 290, 120884.	7.9	34
23	The process control of the triple-column pressure-swing extractive distillation with partial heat integration. Separation and Purification Technology, 2020, 238, 116416.	7.9	30
24	Intensification and performance assessment for synthesis of 2-methoxy-2-methyl-heptane through the combined use of different pressure thermally coupled reactive distillation and heat integration technique. Chemical Engineering and Processing: Process Intensification, 2019, 142, 107561.	3.6	28
25	Improved design of heat-pump extractive distillation based on the process optimization and multi-criteria sustainability analysis. Computers and Chemical Engineering, 2022, 156, 107552.	3.8	25
26	Dynamic study in enhancing the controllability of an energy-efficient double side-stream ternary extractive distillation of acetonitrile/methanol/benzene with three azeotropes. Separation and Purification Technology, 2020, 242, 116830.	7.9	22
27	Multi-criteria sustainability assessment and decision-making framework for hydrogen pathways prioritization: An extended ELECTRE method under hybrid information. International Journal of Hydrogen Energy, 2021, 46, 13430-13445.	7.1	21
28	Design and control of an energy intensified side-stream extractive distillation for binary azeotropic separation of n-hexane and ethyl acetate. Separation and Purification Technology, 2022, 294, 121176.	7.9	20
29	Target localization optimization of a superstructure triple-column extractive distillation with four-parallel evaporator organic Rankine cycles system based on advanced exergy analysis. Separation and Purification Technology, 2021, 272, 118894.	7.9	18
30	Toward a Sustainable Azeotrope Separation of Acetonitrile/Water by the Synergy of Ionic Liquid-Based Extractive Distillation, Heat Integration, and Multiobjective Optimization. Industrial & Engineering Chemistry Research, 2022, 61, 9833-9846.	3.7	15
31	A multi-task deep learning neural network for predicting flammability-related properties from molecular structures. Green Chemistry, 2021, 23, 4451-4465.	9.0	9
32	Artificial intelligence in process systems engineering. , 2021, , 1-10.		2
33	Methods in sustainability science. , 2021, , 1-12.		1