

Ao Yang

List of Publications by Year in descending order

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33
papers

1,748
citations

236925

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434195

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docs citations

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times ranked

421
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-efficient recovery of tetrahydrofuran and ethyl acetate by triple-column extractive distillation: entrainer design and process optimization. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 303-315.	4.4	42
2	Improved design of heat-pump extractive distillation based on the process optimization and multi-criteria sustainability analysis. <i>Computers and Chemical Engineering</i> , 2022, 156, 107552.	3.8	25
3	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. <i>Separation and Purification Technology</i> , 2022, 285, 120413.	7.9	49
4	Towards sustainable separation of the ternary azeotropic mixture based on the intensified reactive-extractive distillation configurations and multi-objective particle swarm optimization. <i>Journal of Cleaner Production</i> , 2022, 332, 130116.	9.3	77
5	Insights on sustainable separation of ternary azeotropic mixture tetrahydrofuran/ethyl acetate/water using hybrid vapor recompression assisted side-stream extractive distillation. <i>Separation and Purification Technology</i> , 2022, 290, 120884.	7.9	34
6	Design and control of an energy intensified side-stream extractive distillation for binary azeotropic separation of n-hexane and ethyl acetate. <i>Separation and Purification Technology</i> , 2022, 294, 121176.	7.9	20
7	Toward a Sustainable Azeotrope Separation of Acetonitrile/Water by the Synergy of Ionic Liquid-Based Extractive Distillation, Heat Integration, and Multiobjective Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9833-9846.	3.7	15
8	Methods in sustainability science. , 2021, , 1-12.		1
9	A multi-task deep learning neural network for predicting flammability-related properties from molecular structures. <i>Green Chemistry</i> , 2021, 23, 4451-4465.	9.0	9
10	Multi-criteria sustainability assessment and decision-making framework for hydrogen pathways prioritization: An extended ELECTRE method under hybrid information. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13430-13445.	7.1	21
11	Target localization optimization of a superstructure triple-column extractive distillation with four-parallel evaporator organic Rankine cycles system based on advanced exergy analysis. <i>Separation and Purification Technology</i> , 2021, 272, 118894.	7.9	18
12	Artificial intelligence in process systems engineering. , 2021, , 1-10.		2
13	The process control of the triple-column pressure-swing extractive distillation with partial heat integration. <i>Separation and Purification Technology</i> , 2020, 238, 116416.	7.9	30
14	Optimization and control of energy saving side-stream extractive distillation with heat integration for separating ethyl acetate-ethanol azeotrope. <i>Chemical Engineering Science</i> , 2020, 215, 115373.	3.8	83
15	Investigation on ternary system tetrahydrofuran/ethanol/water with three azeotropes separation via the combination of reactive and extractive distillation. <i>Journal of Cleaner Production</i> , 2020, 273, 123145.	9.3	74
16	The separation of ternary azeotropic mixture: Thermodynamic insight and improved multi-objective optimization. <i>Energy</i> , 2020, 206, 118117.	8.8	51
17	Investigation of energy-efficient and sustainable reactive/pressure-swing distillation processes to recover tetrahydrofuran and ethanol from the industrial effluent. <i>Separation and Purification Technology</i> , 2020, 250, 117210.	7.9	60
18	Dynamic study in enhancing the controllability of an energy-efficient double side-stream ternary extractive distillation of acetonitrile/methanol/benzene with three azeotropes. <i>Separation and Purification Technology</i> , 2020, 242, 116830.	7.9	22

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19	Investigation of an energy-saving double-thermally coupled extractive distillation for separating ternary system benzene/toluene/cyclohexane. <i>Energy</i> , 2019, 186, 115756.	8.8	80
20	Energy-efficient extractive pressure-swing distillation for separating binary minimum azeotropic mixture dimethyl carbonate and ethanol. <i>Separation and Purification Technology</i> , 2019, 229, 115817.	7.9	57
21	Investigation of energy-saving azeotropic dividing wall column to achieve cleaner production via heat exchanger network and heat pump technique. <i>Journal of Cleaner Production</i> , 2019, 234, 410-422.	9.3	83
22	Advanced exergy analysis of organic Rankine Cycles for Fischer-Tropsch syngas production with parallel dry and steam methane reforming. <i>Energy Conversion and Management</i> , 2019, 199, 111963.	9.2	40
23	Multi-objective optimization of organic Rankine cycle system for the waste heat recovery in the heat pump assisted reactive dividing wall column. <i>Energy Conversion and Management</i> , 2019, 199, 112041.	9.2	76
24	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. <i>Energy</i> , 2019, 172, 320-332.	8.8	114
25	Comparative optimal design and control of two alternative approaches for separating heterogeneous mixtures isopropyl alcohol-isopropyl acetate-water with four azeotropes. <i>Separation and Purification Technology</i> , 2019, 225, 1-17.	7.9	44
26	Dynamic controllability investigation of an energy-saving double side-stream ternary extractive distillation process. <i>Separation and Purification Technology</i> , 2019, 225, 41-53.	7.9	43
27	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. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 142, 107561.	3.6	28
28	Optimal Design and Effective Control of Triple-Column Extractive Distillation for Separating Ethyl Acetate/Ethanol/Water with Multiazeotrope. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7265-7283.	3.7	126
29	Extractive distillation: Advances in conceptual design, solvent selection, and separation strategies. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1247-1256.	3.5	90
30	Design and control of pressure-swing distillation for separating ternary systems with three binary minimum azeotropes. <i>AIChE Journal</i> , 2019, 65, 1281-1293.	3.6	167
31	Improved process design and optimization of 200 kt/a ethylene glycol production using coal-based syngas. <i>Chemical Engineering Research and Design</i> , 2018, 132, 551-563.	5.6	40
32	Energy-Saving Optimal Design and Effective Control of Heat Integration-Extractive Dividing Wall Column for Separating Heterogeneous Mixture Methanol/Toluene/Water with Multiazeotropes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 8036-8056.	3.7	75
33	Optimal Design and Effective Control of the <i>tert</i> -Amyl Methyl Ether Production Process Using an Integrated Reactive Dividing Wall and Pressure Swing Columns. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14565-14581.	3.7	52