Y A Liu

List of Publications by Year
in descending order

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Version: 2024-02-01

26 papers	798 citations	840776 11 h-index	888059 17 g-index
40 all docs	40 docs citations	40 times ranked	630 citing authors

#	Article	IF	Citations
1	Sigma-Profile Database for Using COSMO-Based Thermodynamic Methods. Industrial & Engineering Chemistry Research, 2006, 45, 4389-4415.	3.7	324
2	Steady-State and Dynamic Modeling of Commercial Slurry High-Density Polyethylene (HDPE) Processes. Industrial & Engineering Chemistry Research, 2002, 41, 5601-5618.	3.7	85
3	Studies in chemical process design and synthesis: Part V: A simple heuristic method for systematic synthesis of initial sequences for multicomponent separations. AICHE Journal, 1983, 29, 926-934.	3.6	81
4	Steady-State and Dynamic Modeling of Gas-Phase Polypropylene Processes Using Stirred-Bed Reactors. Industrial & Engineering Chemistry Research, 2004, 43, 884-900.	3.7	79
5	Quantifying Relationships among the Molecular Weight Distribution, Non-Newtonian Shear Viscosity, and Melt Index for Linear Polymers. Industrial & Engineering Chemistry Research, 2003, 42, 5354-5362.	3.7	48
6	A hybrid scienceâ€guided machine learning approach for modeling chemical processes: A review. AICHE Journal, 2022, 68, .	3.6	33
7	A New Phase-Equilibrium Model for Simulating Industrial Nylon-6 Production Trains. Industrial & Engineering Chemistry Research, 2003, 42, 3900-3913.	3.7	25
8	Predictive Modeling of Large-Scale Integrated Refinery Reaction and Fractionation Systems from Plant Data. Part 3: Continuous Catalyst Regeneration (CCR) Reforming Process. Energy & Fuels, 2011, 25, 5320-5344.	5.1	21
9	Simulation and Comparison of Operational Modes in Simulated Moving Bed Chromatography. Industrial & Engineering Chemistry Research, 2015, 54, 11576-11591.	3.7	18
10	Studies in magnetochemical engineering. Part II: Theoretical development of a practical model for high-gradient magnetic separation. AICHE Journal, 1983, 29, 771-779.	3.6	15
11	110th Anniversary: An Effective Methodology for Kinetic Parameter Estimation for Modeling Commercial Polyolefin Processes from Plant Data Using Efficient Simulation Software Tools. Industrial & Engineering Chemistry Research, 2019, 58, 14209-14226.	3.7	15
12	CO₂ Capture Modeling, Energy Savings, and Heat Pump Integration. Industrial & Engineering Chemistry Research, 2015, 54, 2526-2553.	3.7	14
13	Petroleum Refinery Process Modeling - Integrated Optimization Tools and Applications. , 2018, , .		10
14	Studies in chemical process design and synthesis part VII: Systematic synthesis of multipass heat exchanger networks. AICHE Journal, 1985, 31, 487-491.	3.6	9
15	110th Anniversary: Ensemble-Based Machine Learning for Industrial Fermenter Classification and Foaming Control. Industrial & Engineering Chemistry Research, 2019, 58, 16719-16729.	3.7	6
16	Studies in magnetochemical engineering. Part III: Experimental applications of a practical model for high-gradient magnetic separation to pilot-scale coal beneficiation. AICHE Journal, 1983, 29, 780-789.	3.6	5
17	Large-Scale Industrial Fermenter Foaming Control: Automated Machine Learning for Antifoam Prediction and Defoaming Process Implementation. Industrial & Engineering Chemistry Research, 2022, 61, 5227-5238.	3.7	3
18	Thermodynamic Availability Analysis in the Synthesis of Optimum-Energy and Minimum-Cost Heat Exchanger Networks. ACS Symposium Series, 1983, , 161-178.	0.5	1

#	Article	IF	Citations
19	Fundamental Process Modeling and Product Design for the Solid State Polymerization of Polyamide 6 and Poly(ethylene terephthalate). , 0, , 199-232.		1
20	Predictive Modeling of the Continuous Catalyst Regeneration (CCR) Reforming Process. , 2013, , 253-361.		1
21	Atmospheric Distillation Unit. , 2013, , 57-116.		1
22	Atmospheric or Crude Distillation Unit (CDU). , 2018, , 59-146.		0
23	Vacuum Distillation Unit. , 2018, , 147-181.		0
24	Predictive Modeling of the Fluid Catalytic Cracking (FCC) Process. , 2018, , 183-302.		0
25	Predictive Modeling of the Hydroprocessing Units. , 2018, , 405-516.		0
26	A Practical Approach to the Multiobjective Synthesis and Optimizing Control of Resilient Heat Exchanger Networks. , 1982, , .		0