

Y A Liu

List of Publications by Year in descending order

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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 | A hybrid scienceâ€guided machine learning approach for modeling chemical processes: A review. <i>AIChE Journal</i> , 2022, 68, . | 3.6 | 33 |
| 2 | Large-Scale Industrial Fermenter Foaming Control: Automated Machine Learning for Antifoam Prediction and Defoaming Process Implementation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5227-5238. | 3.7 | 3 |
| 3 | <i>110th Anniversary</i> : An Effective Methodology for Kinetic Parameter Estimation for Modeling Commercial Polyolefin Processes from Plant Data Using Efficient Simulation Software Tools. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14209-14226. | 3.7 | 15 |
| 4 | 110th Anniversary: Ensemble-Based Machine Learning for Industrial Fermenter Classification and Foaming Control. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16719-16729. | 3.7 | 6 |
| 5 | Atmospheric or Crude Distillation Unit (CDU). , 2018, , 59-146. | | 0 |
| 6 | Vacuum Distillation Unit. , 2018, , 147-181. | | 0 |
| 7 | Predictive Modeling of the Fluid Catalytic Cracking (FCC) Process. , 2018, , 183-302. | | 0 |
| 8 | Predictive Modeling of the Hydroprocessing Units. , 2018, , 405-516. | | 0 |
| 9 | Petroleum Refinery Process Modeling - Integrated Optimization Tools and Applications. , 2018, , . | | 10 |
| 10 | Simulation and Comparison of Operational Modes in Simulated Moving Bed Chromatography. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11576-11591. | 3.7 | 18 |
| 11 | CO ₂ Capture Modeling, Energy Savings, and Heat Pump Integration. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2526-2553. | 3.7 | 14 |
| 12 | Predictive Modeling of the Continuous Catalyst Regeneration (CCR) Reforming Process. , 2013, , 253-361. | | 1 |
| 13 | Atmospheric Distillation Unit. , 2013, , 57-116. | | 1 |
| 14 | Predictive Modeling of Large-Scale Integrated Refinery Reaction and Fractionation Systems from Plant Data. Part 3: Continuous Catalyst Regeneration (CCR) Reforming Process. <i>Energy & Fuels</i> , 2011, 25, 5320-5344. | 5.1 | 21 |
| 15 | Sigma-Profile Database for Using COSMO-Based Thermodynamic Methods. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4389-4415. | 3.7 | 324 |
| 16 | Steady-State and Dynamic Modeling of Gas-Phase Polypropylene Processes Using Stirred-Bed Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 884-900. | 3.7 | 79 |
| 17 | A New Phase-Equilibrium Model for Simulating Industrial Nylon-6 Production Trains. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 3900-3913. | 3.7 | 25 |
| 18 | Quantifying Relationships among the Molecular Weight Distribution, Non-Newtonian Shear Viscosity, and Melt Index for Linear Polymers. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 5354-5362. | 3.7 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Steady-State and Dynamic Modeling of Commercial Slurry High-Density Polyethylene (HDPE) Processes. Industrial & Engineering Chemistry Research, 2002, 41, 5601-5618. | 3.7 | 85 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Thermodynamic Availability Analysis in the Synthesis of Optimum-Energy and Minimum-Cost Heat Exchanger Networks. ACS Symposium Series, 1983, , 161-178. | 0.5 | 1 |
| 25 | A Practical Approach to the Multiobjective Synthesis and Optimizing Control of Resilient Heat Exchanger Networks. , 1982, , . | | 0 |
| 26 | Fundamental Process Modeling and Product Design for the Solid State Polymerization of Polyamide 6 and Poly(ethylene terephthalate). , 0, , 199-232. | | 1 |