## Zuwei Liao

## List of Publications by Citations

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| #   | Paper   | IF           | Citations |
|-----|---|--------------|-----------|
| 116 | Integrating purifiers in refinery hydrogen networks: a retrofit case study. <i>Journal of Cleaner Production</i> , <b>2010</b> , 18, 233-241  | 10.3         | 102       |
| 115 | Design optimization and operating pressure effects in the separation of acetonitrile/methanol/water mixture by ternary extractive distillation. <i>Journal of Cleaner Production</i> , <b>2019</b> , 218, 212-224 | 10.3         | 65        |
| 114 | Rigorous algorithmic targeting methods for hydrogen networks <b>P</b> art II: Systems with one hydrogen purification unit. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 821-833                        | 4.4          | 63        |
| 113 | Design Methodology for Flexible Multiple Plant Water Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 4954-4963   | 3.9          | 63        |
| 112 | Rigorous algorithmic targeting methods for hydrogen networks <b>P</b> art I: Systems with no hydrogen purification. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 813-820                               | 4.4          | 62        |
| 111 | Optimal design of sustainable hydrogen networks. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 2937-2950  | 6.7          | 56        |
| 110 | Hydrogen sulfide removal process embedded optimization of hydrogen network. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 18163-18174   | 6.7          | 52        |
| 109 | Systematic Optimization of Heat-Integrated Water Allocation Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 6713-6727  | 3.9          | 47        |
| 108 | Robust optimization of hydrogen network. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 1210-12  | <b>1</b> 9.7 | 42        |
| 107 | Modeling and Multi-objective Optimization of Refinery Hydrogen Network. <i>Chinese Journal of Chemical Engineering</i> , <b>2011</b> , 19, 990-998  | 3.2          | 41        |
| 106 | CFD-DEM investigation of particle elutriation with electrostatic effects in gas-solid fluidized beds. <i>Powder Technology</i> , <b>2017</b> , 308, 422-433   | 5.2          | 40        |
| 105 | Exergy analysis and CO2 emission evaluation for steam methane reforming. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 3191-3200  | 6.7          | 40        |
| 104 | Optimization of refinery hydrogen network based on chance constrained programming. <i>Chemical Engineering Research and Design</i> , <b>2012</b> , 90, 1553-1567  | 5.5          | 38        |
| 103 | Pinch Sliding Approach for Targeting Hydrogen and Water Networks with Different Types of Purifier. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 8538-8549                           | 3.9          | 36        |
| 102 | Methanol to Propylene Process in a Moving Bed Reactor with Byproducts Recycling: Kinetic Study and Reactor Simulation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 4623-4632       | 3.9          | 34        |
| 101 | Experimental investigation of electrostatic effect on bubble behaviors in gas-solid fluidized bed. <i>AICHE Journal</i> , <b>2015</b> , 61, 1160-1171   | 3.6          | 31        |
| 100 | Molecular reconstruction: Recent progress toward composition modeling of petroleum fractions. <i>Chemical Engineering Journal</i> , <b>2019</b> , 357, 761-775  | 14.7         | 30        |

| 99 | A Multiperiod Optimization Model for Hydrogen System Scheduling in Refinery. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 6085-6098   | 3.9  | 29 |  |
|----|---|------|----|--|
| 98 | Modelling and simulation of two-bed PSA process for separating H2 from methane steam reforming. <i>Chinese Journal of Chemical Engineering</i> , <b>2019</b> , 27, 1870-1878  | 3.2  | 29 |  |
| 97 | Energy and Water Management for Industrial Large-Scale Water Networks: A Systematic Simultaneous Optimization Approach. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2269-2282                           | 8.3  | 28 |  |
| 96 | Realization and control of multiple temperature zones in liquid-containing gasBolid fluidized bed reactor. <i>AICHE Journal</i> , <b>2016</b> , 62, 1454-1466   | 3.6  | 27 |  |
| 95 | A novel two-step method to design inter-plant hydrogen network. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 5686-5695   | 6.7  | 25 |  |
| 94 | Simultaneous Optimization of Heat-Integrated Water Allocation Networks Using the Mathematical Model with Equilibrium Constraints Strategy. <i>Industrial &amp; Discourse in the Mathematical Research</i> , 2015, 54, 3355-3366 | 3.9  | 25 |  |
| 93 | Effect of metal on the methanol to aromatics conversion over modified ZSM-5 in the presence of carbon dioxide. <i>RSC Advances</i> , <b>2017</b> , 7, 10729-10736   | 3.7  | 24 |  |
| 92 | Experimental investigation of electrostatic effect on particle motions in gas-solid fluidized beds. <i>AICHE Journal</i> , <b>2015</b> , 61, 3628-3638  | 3.6  | 24 |  |
| 91 | Targeting of heat integrated water allocation networks by one-step MILP formulation. <i>Applied Energy</i> , <b>2017</b> , 197, 254-269   | 10.7 | 23 |  |
| 90 | Effects of Interparticle Forces on Fluidization Characteristics in Liquid-Containing and High-Temperature Fluidized Beds. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 16666-16                   | 674  | 23 |  |
| 89 | Design Energy Efficient Water Utilization Systems Allowing Operation Split . <i>Chinese Journal of Chemical Engineering</i> , <b>2008</b> , 16, 16-20   | 3.2  | 23 |  |
| 88 | MPEC strategies for efficient and stable scheduling of hydrogen pipeline network operation. <i>Applied Energy</i> , <b>2014</b> , 119, 296-305  | 10.7 | 22 |  |
| 87 | Heat Transfer Blocks Diagram: A Novel Tool for Targeting and Design of Heat Exchanger Networks Inside Heat Integrated Water Allocation Networks. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2704-2715  | 8.3  | 20 |  |
| 86 | Mixing potential: A new concept for optimal design of hydrogen and water networks with higher disturbance resistance. <i>AICHE Journal</i> , <b>2014</b> , 60, 3762-3772  | 3.6  | 20 |  |
| 85 | Promotional effect of Ti doping on the ketonization of acetic acid over a CeO2 catalyst. <i>RSC Advances</i> , <b>2017</b> , 7, 22017-22026   | 3.7  | 19 |  |
| 84 | A thermodynamic irreversibility based design method for multi-contaminant hydrogen networks. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 435-443  | 6.7  | 19 |  |
| 83 | Novel graphical tool for the design of the heat integrated water allocation networks. <i>AICHE Journal</i> , <b>2016</b> , 62, 670-686  | 3.6  | 18 |  |
| 82 | Transshipment type heat exchanger network model for intra- and inter-plant heat integration using process streams. <i>Energy</i> , <b>2019</b> , 178, 853-866   | 7.9  | 18 |  |

| 81 | Simultaneous optimization of heat-integrated water allocation networks. <i>Applied Energy</i> , <b>2016</b> , 169, 395-407   | 10.7 | 18 |
|----|--|------|----|
| 80 | Design of a water allocation and energy network for multi-contaminant problems using multi-objective optimization. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 103, 348-364                  | 5.5  | 18 |
| 79 | Balancing between risk and profit in refinery hydrogen networks: A Worst-Case Conditional Value-at-Risk approach. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 146, 201-210                   | 5.5  | 17 |
| 78 | The influence of purifier models on hydrogen network optimization: Insights from a case study. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 5243-5249                                     | 6.7  | 17 |
| 77 | Simultaneous Design of Hydrogen Allocation Networks and PSA Inside Refineries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 4712-4720  | 3.9  | 16 |
| 76 | Multi-scale analysis of acoustic emission signals in dense-phase pneumatic conveying of pulverized coal at high pressure. <i>AICHE Journal</i> , <b>2016</b> , 62, 2635-2648                                     | 3.6  | 16 |
| 75 | New transshipment type MINLP model for heat exchanger network synthesis. <i>Chemical Engineering Science</i> , <b>2017</b> , 173, 537-559  | 4.4  | 16 |
| 74 | Monitoring of particle motions in gas-solid fluidized beds by electrostatic sensors. <i>Powder Technology</i> , <b>2017</b> , 308, 461-471   | 5.2  | 15 |
| 73 | Automatic Design of Multi-Impurity Refinery Hydrogen Networks Using Mixing Potential Concept. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 6703-6710                               | 3.9  | 15 |
| 72 | Efficient Au0/C catalyst synthesized by a new method for acetylene hydrochlorination. <i>RSC Advances</i> , <b>2015</b> , 5, 46366-46371   | 3.7  | 15 |
| 71 | Investigating Agglomeration Behaviors in High Temperature GasBolid Fluidized Beds with Liquid Injection. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 5482-5494                    | 3.9  | 15 |
| 70 | Insights into the improvement effect of Fe doping into the CeO2 catalyst for vapor phase ketonization of carboxylic acids. <i>Molecular Catalysis</i> , <b>2018</b> , 444, 22-33                                 | 3.3  | 15 |
| 69 | Experimental Investigation of Electrostatic Reduction in a GasBolid Fluidized Bed by an in Situ Corona Charge Eliminator. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 14217-14224 | 3.9  | 14 |
| 68 | Determination of particle size distribution by multi-scale analysis of acoustic emission signals in gas-solid fluidized bed. <i>Journal of Zhejiang University: Science A</i> , <b>2011</b> , 12, 260-267        | 2.1  | 14 |
| 67 | Methanol to Propylene over Foam SiC-Supported ZSM-5 Catalyst: Performance of Multiple Reaction Regeneration Cycles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 27-33             | 3.9  | 13 |
| 66 | Effects of agglomerates on electrostatic behaviors in gasBolid fluidized beds. <i>Powder Technology</i> , <b>2016</b> , 287, 139-151   | 5.2  | 12 |
| 65 | CFD simulation and hydrodynamics characterization of solids oscillation behavior in a circulating fluidized bed with sweeping bend return. <i>Chemical Engineering Journal</i> , <b>2017</b> , 307, 604-620      | 14.7 | 12 |
| 64 | Dynamic and Steady-State Characterization of the Liquid Spray Zone in an Externally Heated GasBolid Fluidized Bed. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 2988-3001          | 3.9  | 11 |

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| 63 | Effects of DC electric fields on meso-scale structures in electrostatic gas-solid fluidized beds. <i>Chemical Engineering Journal</i> , <b>2018</b> , 332, 293-302  | 14.7 | 11 |
|----|---|------|----|
| 62 | Improvement of performance of a Aulu/AC catalyst using thiol for acetylene hydrochlorination reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 3806-3814   | 3.7  | 11 |
| 61 | Simultaneous Optimization of a Heat Exchanger Network and Operating Conditions of Organic Rankine Cycle. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 11596-11609   | 3.9  | 11 |
| 60 | Ce/MgAl mixed oxides derived from hydrotalcite LDH precursors as highly efficient catalysts for ketonization of carboxylic acid. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 6335-6344   | 5.5  | 11 |
| 59 | Energy configuration and operation optimization of refinery fuel gas networks. <i>Applied Energy</i> , <b>2015</b> , 139, 365-375   | 10.7 | 10 |
| 58 | Optimal process design for recovering effluent gas at subambient temperature. <i>Journal of Cleaner Production</i> , <b>2017</b> , 144, 130-141   | 10.3 | 9  |
| 57 | Kinetic and regenerator modeling of the coke combustion in the moving bed MTP process. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 122, 52-62   | 5.5  | 9  |
| 56 | Flow regime identification in horizontal pneumatic conveying by nonintrusive acoustic emission detection. <i>AICHE Journal</i> , <b>2019</b> , 65, e16552   | 3.6  | 9  |
| 55 | Stability Analysis of Ethylene Polymerization in a Liquid-Containing GasBolid Fluidized Bed Reactor. <i>Industrial &amp; Discourse Chemistry Research</i> , <b>2018</b> , 57, 5616-5629   | 3.9  | 9  |
| 54 | Systematic Design and Optimization of a Membrane Tryogenic Hybrid System for CO2 Capture. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 17186-17197   | 8.3  | 9  |
| 53 | A comparative study of electrostatic current and pressure signals in a MSFC gasBolid fluidized bed. <i>Powder Technology</i> , <b>2016</b> , 287, 292-300   | 5.2  | 8  |
| 52 | Experimental investigation of bubble and particle motion behaviors in a gas-solid fluidized bed with side wall liquid spray. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 2306-2316  | 4.6  | 8  |
| 51 | Machine learning assisted measurement of solid mass flow rate in horizontal pneumatic conveying by acoustic emission detection. <i>Chemical Engineering Science</i> , <b>2021</b> , 229, 116083   | 4.4  | 8  |
| 50 | Targeting and Design of Work and Heat Exchange Networks. <i>Industrial &amp; Design Research</i> , <b>2020</b> , 59, 12471-12486  | 3.9  | 7  |
| 49 | Optimal design of hybrid cryogenic flash and membrane system. <i>Chemical Engineering Science</i> , <b>2018</b> , 179, 13-31  | 4.4  | 7  |
| 48 | On flow regime transition in trickle bed: Development of a novel deep-learning-assisted image analysis method. <i>AICHE Journal</i> , <b>2020</b> , 66, e16833  | 3.6  | 7  |
| 47 | Computational Fluid Dynamics Simulations and Experimental Validation of Macromixing and Flow Characteristics in Low-Density Polyethylene Autoclave Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 14865-14875 | 3.9  | 6  |
| 46 | New Insights into TH/HE Diagrams for Synthesis of Heat Exchanger Networks inside Heat Integrated Water Allocation Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 9323-9                                       | 3328 | 6  |

| 45 | Thermal-Stability Analysis of Ethylene-Polymerization Fluidized-Bed Reactors under Condensed-Mode Operation through a TPMBBM Integrated Model. <i>Industrial &amp; Description Chemistry Research</i> , <b>2019</b> , 58, 9486-9499  | 3.9    | 5               |
|----|--|--------|-----------------|
| 44 | Kinetic modeling with automatic reaction network generator, an application to naphtha steam cracking. <i>Energy</i> , <b>2020</b> , 207, 118204  | 7.9    | 5               |
| 43 | Tuning Bis(imino)pyridyl Iron-Catalyzed Ethylene Oligomerization by Modification of MAO with p-BrPhOH. <i>Macromolecular Reaction Engineering</i> , <b>2018</b> , 12, 1700061  | 1.5    | 5               |
| 42 | Efficient conversion of methane to aromatics in the presence of methanol at low temperature. <i>Molecular Catalysis</i> , <b>2019</b> , 475, 110493  | 3.3    | 5               |
| 41 | Online measurement of particle charge density in a gas-solid bubbling fluidized bed through electrostatic and pressure sensing. <i>Powder Technology</i> , <b>2017</b> , 317, 471-480  | 5.2    | 5               |
| 40 | Effect of temperature on the synthesis of sodalite by crystal transition process. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 292, 109755  | 5.3    | 5               |
| 39 | Enhancing low-temperature methane conversion on Zn/ZSM-5 in the presence of methanol by regulating the methanol-to-aromatics reaction pathway. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 61  | 6₽÷₹17 | 72 <sup>5</sup> |
| 38 | Solvents Molecular Mobility in Coked Catalyst ZSM-5 Studied by NMR Relaxation and Pulsed Field Gradient Techniques. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 6647-6653   | 3.9    | 4               |
| 37 | Experimental investigation on mechanisms of fine particles generation for the Borealis Borstar multistage olefin polymerization process. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46589  | 2.9    | 4               |
| 36 | Molecular Reconstruction of Naphtha via Limited Bulk Properties: Methods and Comparisons. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 18742-18755   | 3.9    | 4               |
| 35 | Numerical study of particle injection into a gas-solid fluidized bed. <i>Powder Technology</i> , <b>2020</b> , 360, 835-   | 8452   | 4               |
| 34 | New superstructure-based model for the globally optimal synthesis of refinery hydrogen networks.<br>Journal of Cleaner Production, <b>2021</b> , 292, 126022   | 10.3   | 4               |
| 33 | Strategy of effluent recovery technology selection in polyolefin plants. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 103, 405-412  | 5.5    | 4               |
| 32 | Experimental measurement of bubble breakup in a jet bubbling reactor. AICHE Journal, 2021, 67,   | 3.6    | 4               |
| 31 | Modeling Agglomeration Behavior in High Temperature GasBolid Fluidized Beds via Monte Carlo Method. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 1112-1121   | 3.9    | 3               |
| 30 | Simulation-Based Multiobjective Optimization of the Product Separation Process within an MTP Plant. <i>Industrial &amp; Description of the Product Separation Process within an MTP Plant. Industrial &amp; Description of the Product Separation Process within an MTP Plant. Industrial &amp; Description of the Product Separation Process within an MTP Plant. Industrial &amp; Description of the Product Separation Process within an MTP Plant. Industrial &amp; Description of the Product Separation Process within an MTP Plant. Industrial &amp; Description of the Product Separation Process within an MTP Plant. Industrial &amp; Description of the Product Separation Process within an MTP Plant. Industrial &amp; Description Process within an MTP Plant. Industrial &amp; Description Process within an MTP Plant. Industrial &amp; Description Process within an Industrial &amp; Description Process within an Industrial &amp; Description Process within an Industrial &amp; Description Process within Process withi</i> | 3.9    | 3               |
| 29 | Indirect Heat Integration across Plants: Novel Representation of Intermediate Fluid Circles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 7233-7246  | 3.9    | 3               |
| 28 | Simultaneous Optimization for Organic Rankine Cycle Design and Heat Integration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 20455-20471  | 3.9    | 3               |

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| 27 | Globally optimal synthesis of heat exchanger networks. Part II: Non-minimal networks. <i>AICHE Journal</i> , <b>2020</b> , 66, e16264  | 3.6  | 3 |
|----|--|------|---|
| 26 | Investigation of pressure drop in a cocurrent downflow three-phase moving bed. <i>AICHE Journal</i> , <b>2020</b> , 66, e16227   | 3.6  | 3 |
| 25 | Robust Engineering Strategy for Scheduling Optimization of Refinery Fuel Gas System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 1547-1559  | 3.9  | 3 |
| 24 | Simultaneous optimization of hydrogen network with desulfurization processes embedded. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 215-219  | 0.6  | 3 |
| 23 | Flow regime transition and liquid distribution in a 3D concurrent downflow three-phase moving bed. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129174   | 14.7 | 3 |
| 22 | Efficient Strategy for the Synthesis of Work and Heat Exchange Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 1756-1773  | 3.9  | 3 |
| 21 | MILP Model for the Nonlinear Problem of Optimal Purifier Placement. <i>Process Integration and Optimization for Sustainability</i> , <b>2018</b> , 2, 85-94  | 2    | 2 |
| 20 | Effects of aluminoxane cocatalysts on bis(imino)pyridine iron-catalyzed ethylene oligomerization. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 903-910  | 2.3  | 2 |
| 19 | Hybrid titanium catalyst supported on core-shell silica/poly(styrene-co-acrylic acid) carrier. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 118, n/a-n/a  | 2.9  | 2 |
| 18 | Acidity Modification of ZSM-5 for Methane Conversion in Co-feeding Method with MTA Reaction. <i>Chemical Research in Chinese Universities</i> ,1   | 2.2  | 2 |
| 17 | Globally optimal design of refinery hydrogen networks with pressure discretization. <i>Chemical Engineering Science</i> , <b>2022</b> , 247, 117021  | 4.4  | 2 |
| 16 | Simultaneous design of heat integrated water allocation networks considering all possible splitters and mixers. <i>Energy</i> , <b>2022</b> , 238, 121916  | 7.9  | 2 |
| 15 | Modeling and Control of COVID-19 Transmission from a Perspective of Polymerization Reaction Dynamics. <i>Industrial &amp; Dynamics. Industrial &amp; Dynamics</i> . <i>Industrial &amp; Dynamics</i> . <i>Industrial &amp; Dynamics</i> . <i>Industrial &amp; Dynamics</i> .   | 3.9  | 1 |
| 14 | Globally optimal design of intensified shell and tube heat exchangers using complete set trimming. <i>Computers and Chemical Engineering</i> , <b>2022</b> , 158, 107644   | 4    | 1 |
| 13 | Evolution and Interaction Characteristics of Liquid Flow and Bubbles in a Jet Bubbling Column. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 21217-21230  | 3.9  | 1 |
| 12 | Effects of Methylaluminoxane Modifications on Tuning the Bis(Imino)Pyridyl Iron-Catalyzed Oligomerization of Ethylene. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 1010-1016  | 2.3  | 1 |
| 11 | The screened waveguide for intrusive acoustic emission detection and its application in circulating fluidized bed. <i>AICHE Journal</i> , <b>2021</b> , 67, e17118   | 3.6  | 1 |
| 10 | Enhanced Reaction Performances for Light Olefin Production from Butene through Cofeeding Reaction with Methanol. <i>Energy &amp; Double Search Searc</i> | 4.1  | 1 |

| 9 | Globally optimal synthesis of heat exchanger networks. Part III: Non-isothermal mixing in minimal and non-minimal networks. <i>AICHE Journal</i> , <b>2021</b> , 67, e17393                              | 3.6  | 1 |
|---|--|------|---|
| 8 | Bubble characterization in the gas-solid fluidized bed using an intrusive acoustic emission sensor array. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137168                                | 14.7 | 1 |
| 7 | A heuristic approach to grade transition strategy of the HDPE slurry process in different operation modes. Clean Technologies and Environmental Policy, 2013, 15, 833-849                                | 4.3  | 0 |
| 6 | Kinetic Perspective on Methanol to Propylene Process via HZSM-5 Catalyst: Balancing between Reaction and Diffusion. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 2055-2067 | 3.9  | O |
| 5 | Optimal Design of a Subambient Membrane Separation System with Work and Heat Integration for CO2 Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 15194-15207         | 3.9  | 0 |
| 4 | Flow regimes in a gas¶quidBolid three-phase moving bed. <i>AICHE Journal</i> , <b>2021</b> , 67, e17374  | 3.6  | O |
| 3 | Enhancing Methane Conversion by Modification of Zn States in Co-Reaction of MTA. <i>Catalysts</i> , <b>2021</b> , 11, 1540   | 4    | О |
| 2 | Pore plugging effects on the performance of ZSM-5 catalyst in MTP reaction using a discrete model. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 32, 253-263                            | 3.2  |   |