

Jian-Feng Chen

List of Publications by Year in descending order

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156
papers

6,278
citations

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72
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157
all docs

157
docs citations

157
times ranked

6469
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Preparation and characterization of porous hollow silica nanoparticles for drug delivery application. <i>Biomaterials</i> , 2004, 25, 723-727. | 5.7 | 474 |
| 2 | Synthesis of Nanoparticles with Novel Technology: A High-Gravity Reactive Precipitation. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 948-954. | 1.8 | 409 |
| 3 | Computational Study of CO ₂ Storage in Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1562-1569. | 1.5 | 240 |
| 4 | Molecular simulation of separation of CO ₂ from flue gases in Cu-BTC metal-organic framework. <i>AIChE Journal</i> , 2007, 53, 2832-2840. | 1.8 | 235 |
| 5 | Colloidal Synthesis of Semiconductor Quantum Dots toward Large-Scale Production: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1790-1802. | 1.8 | 230 |
| 6 | Novel ZnO-Based Film with Double Light-Scattering Layers as Photoelectrodes for Enhanced Efficiency in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2010, 22, 928-934. | 3.2 | 172 |
| 7 | Core/shell structured ZnO/SiO ₂ nanoparticles: Preparation, characterization and photocatalytic property. <i>Applied Surface Science</i> , 2010, 257, 393-397. | 3.1 | 151 |
| 8 | Feasibility of preparing nanodrugs by high-gravity reactive precipitation. <i>International Journal of Pharmaceutics</i> , 2004, 269, 267-274. | 2.6 | 131 |
| 9 | Micromixing Efficiency in a Rotating Packed Bed: Experiments and Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7730-7737. | 1.8 | 128 |
| 10 | Gas-Liquid Effective Interfacial Area in a Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16320-16325. | 1.8 | 112 |
| 11 | Iodine-Doped ZnO Nanocrystalline Aggregates for Improved Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 3-5. | 3.2 | 106 |
| 12 | Absorption of Carbon Dioxide with Ionic Liquid in a Rotating Packed Bed Contactor: Mass Transfer Study. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 6957-6964. | 1.8 | 105 |
| 13 | Determination of the effective interfacial area in rotating packed bed. <i>Chemical Engineering Journal</i> , 2011, 168, 1377-1382. | 6.6 | 102 |
| 14 | Chemical Approaches to Carbon-Based Metal-Free Catalysts. <i>Advanced Materials</i> , 2019, 31, e1804863. | 11.1 | 90 |
| 15 | Preparation of Ultrafine Beclomethasone Dipropionate Drug Powder by Antisolvent Precipitation. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 4839-4845. | 1.8 | 85 |
| 16 | Mass Transfer Studies in a Rotating Packed Bed with Novel Rotors: Chemisorption of CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9164-9172. | 1.8 | 85 |
| 17 | Improved dielectric strength of barium titanate-polyvinylidene fluoride nanocomposite. <i>Applied Physics Letters</i> , 2009, 95, . | 1.5 | 76 |
| 18 | Liquid Marbles Based on Magnetic Upconversion Nanoparticles as Magnetically and Optically Responsive Miniature Reactors for Photocatalysis and Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10795-10799. | 7.2 | 75 |

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|----|--|-----|-----------|
| 19 | Visible-light-response iodine-doped titanium dioxide nanocrystals for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 3877. | 6.7 | 73 |
| 20 | A Facile Method To Prepare Superhydrophobic Coatings by Calcium Carbonate. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3089-3094. | 1.8 | 72 |
| 21 | Mass transfer intensification in a rotating packed bed with surface-modified nickel foam packing. <i>Chemical Engineering Journal</i> , 2016, 285, 236-242. | 6.6 | 71 |
| 22 | Investigation of effective interfacial area in a rotating packed bed with structured stainless steel wire mesh packing. <i>Chemical Engineering Science</i> , 2017, 170, 347-354. | 1.9 | 67 |
| 23 | Fluorescent carbon dots from milk by microwave cooking. <i>RSC Advances</i> , 2016, 6, 41516-41521. | 1.7 | 63 |
| 24 | High-throughput microporous tube-in-tube microreactor as novel gas-liquid contactor: Mass transfer study. <i>AIChE Journal</i> , 2011, 57, 239-249. | 1.8 | 59 |
| 25 | Removal of hydrogen sulfide from coke oven gas by catalytic oxidative absorption in a rotating packed bed. <i>Fuel</i> , 2017, 204, 47-53. | 3.4 | 59 |
| 26 | The effect of pore size or iron particle size on the formation of light olefins in Fischer-Tropsch synthesis. <i>RSC Advances</i> , 2015, 5, 29002-29007. | 1.7 | 58 |
| 27 | Efficient capture of carbon dioxide with novel mass-transfer intensification device using ionic liquids. <i>AIChE Journal</i> , 2013, 59, 2957-2965. | 1.8 | 56 |
| 28 | 3D numerical simulation of a rotating packed bed with structured stainless steel wire mesh packing. <i>Chemical Engineering Science</i> , 2017, 170, 365-377. | 1.9 | 56 |
| 29 | Polytetrafluoroethylene Wire Mesh Packing in a Rotating Packed Bed: Mass-Transfer Studies. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11606-11613. | 1.8 | 53 |
| 30 | Synthesis and characterization of hydroxyapatite nanoparticles prepared by a high-gravity precipitation method. <i>Ceramics International</i> , 2015, 41, 14340-14349. | 2.3 | 52 |
| 31 | Micromixing Efficiency Enhancement in a Rotating Packed Bed Reactor with Surface-Modified Nickel Foam Packing. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1697-1702. | 1.8 | 51 |
| 32 | Simultaneous Absorption of CO ₂ and NH ₃ into Water in a Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 11175-11180. | 1.8 | 50 |
| 33 | Uniform Two-Dimensional Co ₃ O ₄ Porous Sheets: Facile Synthesis and Enhanced Photocatalytic Performance. <i>Chemical Engineering and Technology</i> , 2016, 39, 891-898. | 0.9 | 50 |
| 34 | Synthesis of Transparent Aqueous ZrO ₂ Nanodispersion with a Controllable Crystalline Phase without Modification for a High-Refractive-Index Nanocomposite Film. <i>Langmuir</i> , 2018, 34, 6806-6813. | 1.6 | 50 |
| 35 | Nanonization of Megestrol Acetate by Liquid Precipitation. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8493-8499. | 1.8 | 49 |
| 36 | Liquid jet impaction on the single-layer stainless steel wire mesh in a rotating packed bed reactor. <i>AIChE Journal</i> , 2019, 65, e16597. | 1.8 | 49 |

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|----|---|------|-----------|
| 37 | Transferrin-coated magnetic upconversion nanoparticles for efficient photodynamic therapy with near-infrared irradiation and luminescence bioimaging. <i>Nanoscale</i> , 2017, 9, 11214-11221. | 2.8 | 47 |
| 38 | Modeling and experimental studies of mass transfer in the cavity zone of a rotating packed bed. <i>Chemical Engineering Science</i> , 2017, 170, 355-364. | 1.9 | 46 |
| 39 | High-gravity-assisted scalable synthesis of zirconia nanodispersion for light emitting diodes encapsulation with enhanced light extraction efficiency. <i>Chemical Engineering Science</i> , 2019, 195, 1-10. | 1.9 | 46 |
| 40 | Absorption of SO ₂ with Ammonia-Based Solution in a Cocurrent Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 15731-15737. | 1.8 | 44 |
| 41 | Transparent Dispersions of Monodispersed ZnO Nanoparticles with Ultrahigh Content and Stability for Polymer Nanocomposite Film with Excellent Optical Properties. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4253-4260. | 1.8 | 43 |
| 42 | CFD Analysis of Flow Patterns and Micromixing Efficiency in a Y-Type Microchannel Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13944-13952. | 1.8 | 42 |
| 43 | Multidimensional ZnO Architecture for Dye-Sensitized Solar Cells with High Efficiency up to 7.35%. <i>Advanced Energy Materials</i> , 2014, 4, 1301802. | 10.2 | 41 |
| 44 | Preparation of Transparent Suspension of Lamellar Magnesium Hydroxide Nanocrystals Using a High-Gravity Reactive Precipitation Combined with Surface Modification. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 666-671. | 1.8 | 41 |
| 45 | Computational Fluid Dynamics Analysis of the Micromixing Efficiency in a Rotating-Packed-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4856-4866. | 1.8 | 40 |
| 46 | Subgram-Scale Synthesis of Biomass Waste-Derived Fluorescent Carbon Dots in Subcritical Water for Bioimaging, Sensing, and Solid-State Patterning. <i>ACS Omega</i> , 2018, 3, 13211-13218. | 1.6 | 40 |
| 47 | Low-Temperature Processing All-Inorganic Carbon-Based Perovskite Solar Cells up to 11.78% Efficiency via Alkali Hydroxides Interfacial Engineering. <i>ACS Applied Energy Materials</i> , 2020, 3, 401-410. | 2.5 | 40 |
| 48 | Cobalt-embedded zeolite catalyst for direct syntheses of gasoline via Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , 2013, 3, 2559. | 2.1 | 39 |
| 49 | Investigation of Micromixing Efficiency in a Novel High-Throughput Microporous Tube-in-Tube Microchannel Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 5004-5009. | 1.8 | 38 |
| 50 | Mass-Transfer Characteristics of the CO ₂ Absorption Process in a Rotating Packed Bed. <i>Energy & Fuels</i> , 2016, 30, 4215-4220. | 2.5 | 38 |
| 51 | Surface Functionalization of Carbon Dots with Polyhedral Oligomeric Silsesquioxane (POSS) for Multifunctional Applications. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500439. | 1.9 | 38 |
| 52 | Transparent Aqueous Mg(OH) ₂ Nanodispersion for Transparent and Flexible Polymer Film with Enhanced Flame-Retardant Property. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12805-12812. | 1.8 | 37 |
| 53 | Effective Solution Mixing Method to Fabricate Highly Transparent and Optical Functional Organic-Inorganic Nanocomposite Film. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3253-3258. | 1.8 | 36 |
| 54 | In situ template-free synthesis of a novel 3D porous heteroarchitecture Ag ₃ PO ₄ /Ta ₃ N ₅ photocatalyst with high activity and stability under visible radiation. <i>RSC Advances</i> , 2015, 5, 62519-62526. | 1.7 | 35 |

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|----|--|-----|-----------|
| 55 | A hydrophobic wire mesh for better liquid dispersion in air. <i>Chemical Engineering Science</i> , 2017, 170, 204-212. | 1.9 | 35 |
| 56 | Removal of SO ₂ with Sodium Sulfite Solution in a Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2329-2335. | 1.8 | 35 |
| 57 | Preparation of Hydroxyapatite Nanoparticles by Using High-Gravity Reactive Precipitation Combined with Hydrothermal Method. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9857-9863. | 1.8 | 34 |
| 58 | Preparation of Polyaniline Nanofibers by High Gravity Chemical Oxidative Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 5589-5595. | 1.8 | 33 |
| 59 | High-gravity-hydrolysis approach to transparent nanozirconia/silicone encapsulation materials of light emitting diodes devices for healthy lighting. <i>Nano Energy</i> , 2019, 62, 1-10. | 8.2 | 32 |
| 60 | Scale-up Preparation of Organized Mesoporous Alumina in a Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 3317-3320. | 1.8 | 31 |
| 61 | Gas-Side Mass Transfer in a Rotating Packed Bed with Structured Nickel Foam Packing. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4743-4747. | 1.8 | 30 |
| 62 | Synthesis of monodispersed ZnO@SiO ₂ nanoparticles for anti-UV aging application in highly transparent polymer-based nanocomposites. <i>Journal of Materials Science</i> , 2019, 54, 8581-8590. | 1.7 | 30 |
| 63 | Silica Nanotubes Based on Needle-like Calcium Carbonate: Fabrication and Immobilization for Glucose Oxidase. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 459-463. | 1.8 | 29 |
| 64 | Regulating the micromixing efficiency of a novel helical tube reactor by premixing behavior optimization. <i>AIChE Journal</i> , 2017, 63, 2876-2887. | 1.8 | 28 |
| 65 | Highly Transparent and Multifunctional Polymer Nanohybrid Film with Superhigh ZnO Content Synthesized by a Bulk Polymerization Method. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6753-6759. | 1.8 | 27 |
| 66 | Mass-Transfer Studies in a Novel Multiliquid-Inlet Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 18580-18584. | 1.8 | 27 |
| 67 | Recent advances on metal-free graphene-based catalysts for the production of industrial chemicals. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 855-866. | 2.3 | 27 |
| 68 | A three-zone mass transfer model for a rotating packed bed. <i>AIChE Journal</i> , 2019, 65, e16595. | 1.8 | 27 |
| 69 | Cationic polymerization in rotating packed bed reactor: Experimental and modeling. <i>AIChE Journal</i> , 2010, 56, 1053-1062. | 1.8 | 26 |
| 70 | Feasibility studies of micromixing and mass-transfer in an ultrasonic assisted rotating packed bed reactor. <i>Chemical Engineering Journal</i> , 2018, 331, 510-516. | 6.6 | 26 |
| 71 | Separation of CH ₄ /N ₂ by an ultra-stable metal-organic framework with the highest breakthrough selectivity. <i>AIChE Journal</i> , 2022, 68, . | 1.8 | 26 |
| 72 | Preparation and characterization of calcium carbonate/low-density polyethylene nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007, 106, 1932-1938. | 1.3 | 25 |

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|----|--|-----|-----------|
| 73 | Large-Scale Preparation of Amorphous Cefixime Nanoparticles by Antisolvent Precipitation in a High-Gravity Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8157-8165. | 1.8 | 25 |
| 74 | Synergistic effect of PEGylated resveratrol on delivery of anticancer drugs. <i>International Journal of Pharmaceutics</i> , 2016, 498, 134-141. | 2.6 | 25 |
| 75 | Three-dimensional MoS ₂ /rGO nanocomposites with homogeneous network structure for supercapacitor electrodes. <i>Journal of Materials Science</i> , 2019, 54, 14845-14858. | 1.7 | 24 |
| 76 | Gas Flow Characteristics in a Rotating Packed Bed by Particle Image Velocimetry Measurement. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14350-14361. | 1.8 | 23 |
| 77 | Controlling Nucleation and Fabricating Nanoparticulate Formulation of Sorafenib Using a High-Gravity Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1903-1911. | 1.8 | 23 |
| 78 | Effective Mass Transfer Area Measurement Using a CO ₂ -NaOH System: Impact of Different Sources of Kinetics Models and Physical Properties. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 11082-11092. | 1.8 | 23 |
| 79 | Synthesis of transparent dispersion of monodispersed silver nanoparticles with excellent conductive performance using high-gravity technology. <i>Chemical Engineering Journal</i> , 2016, 296, 182-190. | 6.6 | 22 |
| 80 | Process intensification for scalable synthesis of ytterbium and erbium co-doped sodium yttrium fluoride upconversion nanodispersions. <i>Powder Technology</i> , 2018, 340, 208-216. | 2.1 | 22 |
| 81 | Liquid holdup and wetting efficiency in a rotating trickle-bed reactor. <i>AIChE Journal</i> , 2019, 65, e16618. | 1.8 | 22 |
| 82 | Preparation of Polyaniline/Multiwalled Carbon Nanotubes Nanocomposites by High Gravity Chemical Oxidative Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 3811-3818. | 1.8 | 21 |
| 83 | Control of Product Distribution of Fischer-Tropsch Synthesis with a Novel Rotating Packed-Bed Reactor: From Diesel to Light Olefin. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 8700-8703. | 1.8 | 20 |
| 84 | Liquid Marbles Based on Magnetic Upconversion Nanoparticles as Magnetically and Optically Responsive Miniature Reactors for Photocatalysis and Photodynamic Therapy. <i>Angewandte Chemie</i> , 2016, 128, 10953-10957. | 1.6 | 20 |
| 85 | High-Gravity-Assisted Synthesis of Surfactant-Free Transparent Dispersions of Monodispersed MgAl-LDH Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 2960-2967. | 1.8 | 20 |
| 86 | Noncommutative Chern-Simons quantum mechanics. <i>Physical Review D</i> , 2008, 78, . | 1.6 | 19 |
| 87 | Visual Study of Liquid Flow in a Spinning Disk Reactor with a Hydrophobic Surface. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7692-7699. | 1.8 | 19 |
| 88 | CFD Simulation and High-Speed Photography of Liquid Flow in the Outer Cavity Zone of a Rotating Packed Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5280-5290. | 1.8 | 19 |
| 89 | Multi-stimuli-responsive liquid marbles stabilized by superhydrophobic luminescent carbon dots for miniature reactors. <i>Chemical Engineering Journal</i> , 2020, 391, 123478. | 6.6 | 19 |
| 90 | Combining Ionic Liquids and Sodium Salts into Metal-Organic Framework for High-Performance Ionic Conduction. <i>ChemElectroChem</i> , 2020, 7, 183-190. | 1.7 | 19 |

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|-----|---|-----|-----------|
| 91 | Green synthesis of highly dispersed ytterbium and thulium co-doped sodium yttrium fluoride microphosphors for in situ light upconversion from near-infrared to blue in animals. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 243-250. | 5.0 | 18 |
| 92 | Initial liquid dispersion and mass transfer performance in a rotating packed bed. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 140, 136-141. | 1.8 | 18 |
| 93 | 3D porous structured nitrogen-doped graphene-Ni catalyst for highly efficient nitrobenzene reduction. <i>AIChE Journal</i> , 2018, 64, 1330-1338. | 1.8 | 17 |
| 94 | A novel plasma-assisted rotating disk reactor: Enhancement of degradation efficiency of rhodamine B. <i>Chemical Engineering Journal</i> , 2019, 377, 119897. | 6.6 | 17 |
| 95 | Synthesis of highly dispersed cobalt catalyst for hydroformylation of 1-hexene. <i>RSC Advances</i> , 2015, 5, 22300-22304. | 1.7 | 16 |
| 96 | Silver/graphene nanocomposites as catalysts for the reduction of <i>p</i> -nitrophenol to <i>p</i> -aminophenol: Materials preparation and reaction kinetics studies. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1297-1304. | 0.9 | 16 |
| 97 | Monodispersed ZnO Nanoparticle-Poly(methyl methacrylate) Composites with Visible Transparency for Ultraviolet Shielding Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 9026-9034. | 2.4 | 16 |
| 98 | Performance of alkali-free natural petroleum sulfonates: Ultra-low interfacial tension on oil/water interface. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1410-1415. | 0.9 | 15 |
| 99 | Ultrafast Synthesis of Silver Nanoparticle Decorated Graphene Oxide by a Rotating Packed Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11622-11630. | 1.8 | 15 |
| 100 | Large-Scale Synthesis of Uniform Silver Nanowires by High-Gravity Technology for Flexible Transparent Conductive Electrodes. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20630-20638. | 1.8 | 15 |
| 101 | Preparation and properties of nano-CaCO ₃ /acrylonitrile-butadiene-styrene composites. <i>Journal of Applied Polymer Science</i> , 2008, 107, 3609-3614. | 1.3 | 14 |
| 102 | Controllable wettability on stainless steel substrates with highly stable coatings. <i>Chemical Engineering Science</i> , 2019, 195, 791-800. | 1.9 | 14 |
| 103 | Enhanced Ethylene Oxide Selectivity by Cu and Re Dual-Promoted Ag Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4180-4185. | 1.8 | 13 |
| 104 | Three-dimensional large eddy simulation of wave characteristics of liquid film flow in a spinning disk reactor. <i>AIChE Journal</i> , 2020, 66, e16894. | 1.8 | 13 |
| 105 | Synthesis of Ultrasmall and Monodisperse Selenium-Doped Carbon Dots from Amino Acids for Free Radical Scavenging. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16876-16883. | 1.8 | 13 |
| 106 | On the spectra of noncommutative 2D harmonic oscillator. <i>European Physical Journal C</i> , 2008, 54, 685-690. | 1.4 | 12 |
| 107 | A mapping-independent analysis for the spectra of the non-commutative two-dimensional harmonic oscillator. <i>European Physical Journal C</i> , 2008, 56, 591-595. | 1.4 | 12 |
| 108 | Study on the removal of fine particles by using water in a rotating packed bed. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1063-1068. | 0.9 | 12 |

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|-----|---|-----|-----------|
| 109 | A Novel Rotating Multielectrodes Reactor for Electrochemical Oxidation Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2396-2404. | 1.8 | 12 |
| 110 | Process Intensified Synthesis of Rare-Earth Doped NaYF_4 Nanorods toward Gram-Scale Production. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22306-22314. | 1.8 | 12 |
| 111 | Wetting Behavior of the Stainless Steel Wire Mesh with Al_2O_3 Coatings and Mass Transfer Intensification in a Rotating Packed Bed. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1374-1382. | 1.8 | 12 |
| 112 | Efficient Fabrication of Polymer Shell Colloidosomes by a Spray Drying Process. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 324-332. | 1.8 | 12 |
| 113 | Recent Advances in Nanoparticles Production by High Gravity Technology—from Fundamentals to Commercialization. <i>Journal of Chemical Engineering of Japan</i> , 2007, 40, 896-904. | 0.3 | 12 |
| 114 | Alkylation of Isobutane and 2-Butene by Concentrated Sulfuric Acid in a Rotating Packed Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13362-13371. | 1.8 | 11 |
| 115 | Desulfurization of Offshore Natural Gas by Chelated Iron Solution in a HiGee Reactor: A Feasibility Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10629-10634. | 1.8 | 11 |
| 116 | Liquid Marbles in Liquid. <i>Small</i> , 2020, 16, e2002802. | 5.2 | 11 |
| 117 | Removal of nitric oxide in a microporous tube-in-tube microchannel reactor by ferrous chelate solution. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 2282-2288. | 0.9 | 10 |
| 118 | Study on the Removal of Fine Particles from Gas Steam Using Water in a Rotating Packed Bed Combined with a Charged Device. <i>Energy & Fuels</i> , 2017, 31, 1764-1770. | 2.5 | 10 |
| 119 | Synthesis of poly(9,9-dioctylfluorene) in a rotating packed bed with enhanced performance for polymer light-emitting diodes. <i>Polymer Chemistry</i> , 2022, 13, 3506-3512. | 1.9 | 10 |
| 120 | Structural Correspondence of the Oriented Attachment Growth Mechanism of Crystals of the Pharmaceutical Dirithromycin. <i>Langmuir</i> , 2015, 31, 13802-13812. | 1.6 | 9 |
| 121 | Direct synthesis of Co@Al-MCM-41 catalyst from conventional Co/SiO_2 catalyst. <i>RSC Advances</i> , 2015, 5, 62931-62935. | 1.7 | 9 |
| 122 | Coated colloidosomes as novel drug delivery carriers. <i>Expert Opinion on Drug Delivery</i> , 2019, 16, 903-906. | 2.4 | 9 |
| 123 | Surface Engineering of Titanium Dioxide Nanoparticles for Silicone-Based Transparent Hybrid Films with Ultrahigh Refractive Indexes. <i>Langmuir</i> , 2021, 37, 2707-2713. | 1.6 | 9 |
| 124 | Effects of pretreatment on iron-based catalysts for forming light olefins via Fischer-Tropsch synthesis. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 114, 433-449. | 0.8 | 8 |
| 125 | Tuning the Doping of Europium in Gadolinium Borate Microparticles at Mesoscale Toward Efficient Production of Red Phosphors. <i>ACS Omega</i> , 2019, 4, 14497-14502. | 1.6 | 8 |
| 126 | Controllable synthesis and evolution mechanism of monodispersed Sub-10-nm ZrO_2 nanocrystals. <i>Chemical Engineering Journal</i> , 2020, 394, 124843. | 6.6 | 8 |

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|-----|---|-----|-----------|
| 127 | Process intensification for Fe/Mn-nitrogen-doped carbon-based catalysts toward efficient oxygen reduction reaction of Zn-air battery. <i>Chemical Engineering Science</i> , 2022, 259, 117811. | 1.9 | 8 |
| 128 | Polyhedral oligomeric silsesquioxane-coated nanodiamonds for multifunctional applications. <i>Journal of Materials Science</i> , 2018, 53, 15915-15926. | 1.7 | 7 |
| 129 | Efficient Coating Method via Matching Rough Surface of Stainless Steel with Al ₂ O ₃ Particles. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1848-1856. | 1.8 | 7 |
| 130 | Hydrogel from Chrome Shavings as a Sustainable, Highly Sensitive Ionic Skin for Pressure Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8172-8183. | 3.2 | 7 |
| 131 | Efficient treatment of actual pharmaceutical wastewater by wet oxidation process in subcritical water apparatus. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 2056-2062. | 0.9 | 6 |
| 132 | CFD Analysis of Gas Flow Characteristics and Residence Time Distribution in a Rotating Spherical Packing Bed. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21717-21729. | 1.8 | 6 |
| 133 | Micromixing performance in a rotating bar reactor. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1776-1783. | 0.9 | 6 |
| 134 | Modeling for Temperature Distribution of Water in a Multiwaveguide Microwave Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4762-4774. | 1.8 | 6 |
| 135 | Hydrodynamics of gas flow in a rotating packed bed under floating motions: Experimental and simulation study. <i>Chemical Engineering Journal</i> , 2022, 442, 136149. | 6.6 | 6 |
| 136 | Adsorption Study of Methane on Activated Mesoporous Carbon Microbeads by Density Functional Theory. <i>Chinese Journal of Chemistry</i> , 2004, 22, 142-147. | 2.6 | 5 |
| 137 | Preparation of ultrafine manganese dioxide by microimpinging stream reactors and its electrochemical properties. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 461-468. | 0.9 | 5 |
| 138 | Porous PdO-Flower Induced by Nanomicrostructure on Monolith with Traditional Immersion-Pyrolysis Technique for Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14646-14654. | 1.8 | 5 |
| 139 | Synthesis of curcumin-loaded shellac nanoparticles via coprecipitation in a rotating packed bed for food engineering. <i>Journal of Applied Polymer Science</i> , 2022, 139, . | 1.3 | 5 |
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