

Houfang Lu

List of Publications by Year in descending order

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58
papers

1,882
citations

331670

21
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265206

42
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58
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docs citations

58
times ranked

2142
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Production of biodiesel from <i>Jatropha curcas</i> L. oil. <i>Computers and Chemical Engineering</i> , 2009, 33, 1091-1096. | 3.8 | 245 |
| 2 | Supported CaO Catalysts Used in the Transesterification of Rapeseed Oil for the Purpose of Biodiesel Production. <i>Energy & Fuels</i> , 2008, 22, 646-651. | 5.1 | 187 |
| 3 | Enhancing the energetic efficiency of MDEA/PZ-based CO ₂ capture technology for a 650 MW power plant: Process improvement. <i>Applied Energy</i> , 2017, 185, 362-375. | 10.1 | 150 |
| 4 | Solubility of Multicomponent Systems in the Biodiesel Production by Transesterification of <i>Jatropha curcas</i> L. Oil with Methanol. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1130-1135. | 1.9 | 139 |
| 5 | Properties of Tung oil biodiesel and its blends with 0# diesel. <i>Bioresource Technology</i> , 2010, 101, 826-828. | 9.6 | 103 |
| 6 | Photocatalytic performance of Ag ₂ S under irradiation with visible and near-infrared light and its mechanism of degradation. <i>RSC Advances</i> , 2015, 5, 24064-24071. | 3.6 | 101 |
| 7 | Preparation and Antiscaling Application of Superhydrophobic Anodized CuO Nanowire Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6874-6883. | 3.7 | 96 |
| 8 | Insights into the relationships between physicochemical properties, solvent performance, and applications of deep eutectic solvents. <i>Environmental Science and Pollution Research</i> , 2021, 28, 35537-35563. | 5.3 | 65 |
| 9 | Superhydrophilicity/superhydrophobicity of nickel micro-arrays fabricated by electroless deposition on an etched porous aluminum template. <i>Chemical Engineering Journal</i> , 2012, 203, 1-8. | 12.7 | 61 |
| 10 | A fast method to fabricate superhydrophobic surfaces on zinc substrate with ion assisted chemical etching. <i>Applied Surface Science</i> , 2014, 305, 716-724. | 6.1 | 46 |
| 11 | Preparation strategy and stability of deep eutectic solvents: A case study based on choline chloride-carboxylic acid. <i>Journal of Cleaner Production</i> , 2022, 345, 131028. | 9.3 | 41 |
| 12 | Investigation on the Phase-Change Absorbent System MEA + Solvent A (SA) + H ₂ O Used for the CO ₂ Capture from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3811-3821. | 3.7 | 38 |
| 13 | Biodiesel Production from Crude <i>Jatropha curcas</i> L. Oil with Trace Acid Catalyst. <i>Chinese Journal of Chemical Engineering</i> , 2012, 20, 740-746. | 3.5 | 34 |
| 14 | Effects of ball milling on structural changes and hydrolysis of lignocellulosic biomass in liquid hot-water compressed carbon dioxide. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2134-2141. | 2.7 | 34 |
| 15 | The CO ₂ absorption and desorption performance of the triethylenetetramine + N,N-diethylethanolamine + H ₂ O system. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 2351-2360. | 3.5 | 33 |
| 16 | Synthesis-Controlled γ - and β -Molybdenum Carbide for Base-Promoted Transfer Hydrogenation of Lignin to Aromatic Monomers in Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20270-20281. | 3.7 | 31 |
| 17 | De-emulsification of Kerosene/Water Emulsions with Plate-Type Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9279-9288. | 3.7 | 30 |
| 18 | Simultaneous mineralization of CO ₂ and recovery of soluble potassium using earth-abundant potassium feldspar. <i>Science Bulletin</i> , 2013, 58, 128-132. | 1.7 | 30 |

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|----|---|------|-----------|
| 19 | CO ₂ Capture from Flue Gas Using an Electrochemically Reversible Hydroquinone/Quinone Solution. <i>Energy & Fuels</i> , 2019, 33, 3380-3389. | 5.1 | 30 |
| 20 | An absorption mechanism and polarity-induced viscosity model for CO ₂ capture using hydroxypyridine-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1134-1142. | 2.8 | 26 |
| 21 | Phase-Change CO ₂ Absorption Using Novel 3-Dimethylaminopropylamine with Primary and Tertiary Amino Groups. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8902-8910. | 3.7 | 25 |
| 22 | DBU-Glycerol Solution: A CO ₂ Absorbent with High Desorption Ratio and Low Regeneration Energy. <i>Environmental Science & Technology</i> , 2020, 54, 7570-7578. | 10.0 | 20 |
| 23 | Solubility Measurement for the Reaction Systems in Pre-Esterification of High Acid Value <i>Jatropha curcas</i> L. Oil. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 1421-1425. | 1.9 | 19 |
| 24 | Enhanced hydrolysis of mechanically pretreated cellulose in water/CO ₂ system. <i>Bioresource Technology</i> , 2018, 261, 28-35. | 9.6 | 18 |
| 25 | Preparation of edible superhydrophobic Fe foil with excellent stability and durability and its applications in food containers with little residue. <i>New Journal of Chemistry</i> , 2019, 43, 2908-2919. | 2.8 | 18 |
| 26 | Hydrolysis of mechanically pre-treated cellulose catalyzed by solid acid SO ₄ ²⁻ -TiO ₂ in water-ethanol solvent. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 136-142. | 3.5 | 18 |
| 27 | Supported Mo ₂ C on Carbon Materials for Kraft Lignin Decomposition into Aromatic Monomers in Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12602-12610. | 3.7 | 17 |
| 28 | Preparation of Silver Carbonate and its Application as Visible Light-driven Photocatalyst Without Sacrificial Reagent. <i>Photochemistry and Photobiology</i> , 2015, 91, 1315-1323. | 2.5 | 15 |
| 29 | Preparation of Superhydrophobic Cu Mesh and Its Application in Rolling-Spheronization Granulation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5545-5555. | 3.7 | 15 |
| 30 | Kinetic studies on biodiesel production using a trace acid catalyst. <i>Catalysis Today</i> , 2016, 264, 55-62. | 4.4 | 15 |
| 31 | Studies on viscosity and conductivity of 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)-glycerol and CO ₂ -DBU-glycerol solutions at temperatures from 288.1 K to 328.1 K. <i>Journal of Chemical Thermodynamics</i> , 2019, 136, 16-27. | 2.0 | 14 |
| 32 | Predicting phase-splitting behaviors of an amine-organic solvent-water system for CO ₂ absorption: A new model developed by density functional theory and statistical and experimental methods. <i>Chemical Engineering Journal</i> , 2021, 422, 130389. | 12.7 | 14 |
| 33 | Density studies of 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)-glycerol and CO ₂ -DBU-glycerol solutions at temperatures between 288.15 K and 328.15 K. <i>Journal of Chemical Thermodynamics</i> , 2018, 123, 8-16. | 2.0 | 13 |
| 34 | Hierarchical meso- and macroporous carbon from lignin for kraft lignin decomposition to aromatic monomers. <i>Catalysis Today</i> , 2021, 365, 214-222. | 4.4 | 13 |
| 35 | Inter-solubility of product systems in biodiesel production from <i>Jatropha curcas</i> L. oil with the switchable solvent DBU/methanol. <i>RSC Advances</i> , 2015, 5, 8311-8317. | 3.6 | 12 |
| 36 | Separation application of superhydrophobic Cu gauze to a non-aqueous system: Biodiesel collection from glycerol/FAME two-phase mixture. <i>Applied Surface Science</i> , 2018, 457, 456-467. | 6.1 | 10 |

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|----|---|-----|-----------|
| 37 | Production of Tung Oil Biodiesel and Variation of Fuel Properties During Storage. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 106-115. | 2.9 | 9 |
| 38 | DBU-based CO ₂ absorption–mineralization system: Reaction process, feasibility and process intensification. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 1145-1155. | 3.5 | 9 |
| 39 | Analysis of Wetting Behavior and Solidification Process of Molten Urea on a Superhydrophobic Surface and Its Application in Large Granular Urea Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14906-14914. | 6.7 | 8 |
| 40 | Catalytic solvent regeneration of a CO ₂ -loaded MEA solution using an acidic catalyst from industrial rough metatitanic acid. , 2020, 10, 449-460. | | 8 |
| 41 | Synthesis and characterization of switchable ionic compound based on DBU, CH ₃ OH, and CO ₂ . <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1728-1732. | 3.5 | 7 |
| 42 | Wall-loaded Pt/TiO ₂ /Ti catalyst and its application in ammonia oxidation reaction in microchannel reactor. <i>RSC Advances</i> , 2016, 6, 26637-26649. | 3.6 | 7 |
| 43 | Quantitative Relationship between CO ₂ Absorption Capacity and Amine Water System: DFT, Statistical, and Experimental Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13848-13857. | 3.7 | 7 |
| 44 | Ball milling promoted direct liquefaction of lignocellulosic biomass in supercritical ethanol. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 605-613. | 4.4 | 7 |
| 45 | Studies on surface tension of 1,8-diazabicyclo [5.4.0] undec-7-ene (DBU)-glycerol and CO ₂ -DBU-glycerol solutions at temperatures from 288.1 K to 323.1 K. <i>Journal of Chemical Thermodynamics</i> , 2018, 125, 32-40. | 2.0 | 6 |
| 46 | The quasi-activity coefficients of non-electrolytes in aqueous solution with organic ions and its application on the phase splitting behaviors prediction for CO ₂ absorption. <i>Chinese Journal of Chemical Engineering</i> , 2022, 43, 316-323. | 3.5 | 6 |
| 47 | Regeneration of Na ₂ Q in an Electrochemical CO ₂ Capture System. <i>Energy & Fuels</i> , 2021, 35, 12260-12269. | 5.1 | 5 |
| 48 | Fabrication of micro-Ni arrays by electroless and electrochemical depositions with etched porous aluminum template. <i>Bulletin of Materials Science</i> , 2010, 33, 641-645. | 1.7 | 4 |
| 49 | Effect of Carbon Dioxide on the Liquid Hot-Water Treatment of Lignocellulosics. <i>Journal of Biobased Materials and Bioenergy</i> , 2015, 9, 334-341. | 0.3 | 4 |
| 50 | Electrochemical Acid-Catalyzed Desorption and Regeneration of MDEA CO ₂ -Rich Liquid by Hydroquinone Derivatives (Tiron). <i>Energy & Fuels</i> , 2022, 36, 4871-4879. | 5.1 | 4 |
| 51 | Nano molybdenum carbides supported on porous zeolites for Kraft lignin decomposition to aromatic monomers in ethanol. <i>Bioresource Technology Reports</i> , 2020, 11, 100484. | 2.7 | 3 |
| 52 | Hydrothermally Modified Graphite Felt as an Efficient Cathode for Salty Organic Wastewater Treatment. <i>Environmental Engineering Science</i> , 2020, 37, 790-802. | 1.6 | 3 |
| 53 | Phase Splitting Rules of the Primary/Secondary Amine–Tertiary Amine Systems: Experimental Rapid Screening and Corrected Quasi-Activity Coefficient Model. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 7709-7717. | 3.7 | 3 |
| 54 | Direct Methanation of CO ₂ in Biogas with Hydrogen from Water Electrolysis: The Catalyst and System Efficiency. <i>Energy & Fuels</i> , 2022, 36, 4416-4426. | 5.1 | 2 |

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|----|--|-----|-----------|
| 55 | Cu(II)-Assisted CO ₂ Absorption and Desorption Performances of the MMEA-H ₂ O System. Energy & Fuels, 2021, 35, 9509-9520. | 5.1 | 1 |
| 56 | Nano Mo ₂ C supported on ordered mesoporous carbon for Kraft lignin decomposition to aromatic monomers. Biomass Conversion and Biorefinery, 0, , 1. | 4.6 | 1 |
| 57 | Bifunctional Pt-Mo catalyst for in-situ hydrogenation of methyl stearate into alkanes using formic acid as a hydrogen donor. New Journal of Chemistry, 0, , . | 2.8 | 1 |
| 58 | Tuning the mesopore size of lignin-based porous carbon via salt templating for kraft lignin decomposition. Industrial Crops and Products, 2022, 181, 114865. | 5.2 | 1 |