

# Xingchu Gong

## List of Publications by Year in descending order

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68  
papers

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394421  
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docs citations

73  
times ranked

793  
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| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Design and optimization of purification process of sinomenine hydrochloride. Chinese Journal of Chemical Engineering, 2023, 55, 63-72.  | 3.5 | 1         |
| 2  | Liquid chromatographic study of two structural isomeric pentacyclic triterpenes on reversed-phase stationary phase with hydroxypropyl- $\beta$ -cyclodextrin as mobile phase additive. Journal of Pharmaceutical and Biomedical Analysis, 2022, 207, 114420.              | 2.8 | 5         |
| 3  | Establishing a chromatographic fingerprint using tandem UV/charged aerosol detection and similarity analysis for Shengmai capsule: A novel method for natural product quality control. Phytochemical Analysis, 2022, 33, 460-472.   | 2.4 | 1         |
| 4  | Process optimization for the synthesis of functionalized Au@AgNPs for specific detection of Hg <sup>2+</sup> based on quality by design (QbD). RSC Advances, 2022, 12, 9121-9129.   | 3.6 | 1         |
| 5  | Optimization of Steam Distillation Process and Chemical Constituents of Volatile Oil from Angelicaesinisensis Radix. Separations, 2022, 9, 137.   | 2.4 | 3         |
| 6  | Determination of inhibitory activity of Salvia miltiorrhiza extracts on xanthine oxidase with a paper-based analytical device. Journal of Pharmaceutical Analysis, 2021, 11, 603-610.   | 5.3 | 7         |
| 7  | The development of Fructus corni quality standard considering the effects of processing. Chinese Journal of Chemical Engineering, 2021, 29, 77-84.  | 3.5 | 3         |
| 8  | Establishment and validation of the quantitative analysis of multi-components by single marker for the quality control of Qishen Yiqi dripping pills by high-performance liquid chromatography with charged aerosol detection. Phytochemical Analysis, 2021, 32, 942-956. | 2.4 | 13        |
| 9  | Determination of the Dissociation Constants of 16 Active Ingredients in Medicinal Herbs Using a Liquid-Liquid Equilibrium Method. Separations, 2021, 8, 49.   | 2.4 | 5         |
| 10 | Development of an HPLC-MS method for the determination of four terpene trilactones in Ginkgo biloba leaf extract via quality by design. Biomedical Chromatography, 2021, 35, e5170.   | 1.7 | 10        |
| 11 | Design Space Calculation and Continuous Improvement Considering a Noise Parameter: A Case Study of Ethanol Precipitation Process Optimization for Carthami Flos Extract. Separations, 2021, 8, 74.  | 2.4 | 5         |
| 12 | The Influences of Concentrate Extract Properties and Ethanol Addition Amount on the Ethanol Precipitation Process of Salvia Miltiorrhiza. Pharmacology & Pharmacy, 2021, 12, 191-207.   | 0.7 | 0         |
| 13 | An Index for Quantitative Evaluation of the Mixing in Ethanol Precipitation of Traditional Chinese Medicine. Separations, 2021, 8, 181.   | 2.4 | 0         |
| 14 | Research Progress on Quality Control Methods for Xiaochaihu Preparations. Separations, 2021, 8, 199.  | 2.4 | 3         |
| 15 | Ethanol precipitation of Codonopsis Radix concentrate with a membrane dispersion micromixer. Journal of Cleaner Production, 2020, 251, 119633.  | 9.3 | 11        |
| 16 | Critical pharmaceutical process identification considering chemical composition, biological activity, and batch-to-batch consistency: A case study of notoginseng total saponins. Chinese Herbal Medicines, 2020, 12, 29-35.  | 3.0 | 2         |
| 17 | Liquid-liquid chromatography in sample pretreatment for quantitative analysis of trace component in traditional Chinese medicines by conventional liquid chromatography. Journal of Chromatography A, 2020, 1619, 460917.   | 3.7 | 8         |
| 18 | Research progress on the ethanol precipitation process of traditional Chinese medicine. Chinese Medicine, 2020, 15, 84.   | 4.0 | 25        |

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|----|---|-----|-----------|
| 19 | Optimization of membrane dispersion ethanol precipitation process with a set of temperature control improved equipment. <i>Scientific Reports</i> , 2020, 10, 19010.  | 3.3 | 5         |
| 20 | Research Progress on the Separation of Alkaloids from Chinese Medicines by Column Chromatography. <i>Advances in Chemical Engineering and Science</i> , 2020, 10, 358-377.  | 0.5 | 1         |
| 21 | Sinomenine Purification by Continuous Liquid-Liquid Extraction Process with Centrifugal Extractors. <i>Advances in Chemical Engineering and Science</i> , 2020, 10, 171-180.  | 0.5 | 3         |
| 22 | Determination of Critical Influencing Factor on pH Stability of Yuxingcao Injection. <i>Pharmacology &amp; Pharmacy</i> , 2020, 11, 188-195.  | 0.7 | 0         |
| 23 | Enantioseparation of three isomeric $\pm$ -(chlorophenyl)propanoic acid by countercurrent chromatography and investigation of chlorine substituent through characterization of inclusion interaction. <i>Journal of Chromatography A</i> , 2019, 1604, 460471.                          | 3.7 | 7         |
| 24 | The development of an herbal material quality control strategy considering the effects of manufacturing processes. <i>Chinese Medicine</i> , 2019, 14, 38.  | 4.0 | 8         |
| 25 | Fabrication of paper-based enzyme immobilized microarray by 3D-printing technique for screening $\pm$ -glucosidase inhibitors in mulberry leaves and lotus leaves. <i>Chinese Medicine</i> , 2019, 14, 13.  | 4.0 | 11        |
| 26 | Preparation of Salviolic Acid B Disodium Salt Considering the Water Extract Quality Standard. <i>Molecules</i> , 2019, 24, 1269.  | 3.8 | 4         |
| 27 | Establishing the chromatographic fingerprint of traditional Chinese medicine standard decoction based on quality by design approach: A case study of <i>Licorice</i> . <i>Journal of Separation Science</i> , 2019, 42, 1144-1154.  | 2.5 | 25        |
| 28 | A novel quality by design approach for developing an HPLC method to analyze herbal extracts: A case study of sugar content analysis. <i>PLoS ONE</i> , 2018, 13, e0198515.  | 2.5 | 26        |
| 29 | Chemical analysis, pharmacological activity and process optimization of the proportion of bilobalide and ginkgolides in <i>Ginkgo biloba</i> extract. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 160, 46-54.  | 2.8 | 20        |
| 30 | Paper-based analytical devices prepared with polycaprolactone printing and their application in the activity determination of mulberry extracts. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 161, 28-34.   | 2.8 | 8         |
| 31 | Modeling of degradation kinetics of Salviolic acid B at different temperatures and pH values. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 68-73.   | 3.5 | 7         |
| 32 | Measurement and Correlation of Liquid-Liquid Equilibria for the Ternary Systems of Water + Fructose + 1-Butanol, Water + Glucose + 1-Butanol, and Water + Galactose + 1-Butanol at (288.2, 303.2 and 318.2) K. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 2392-2399. | 1.9 | 3         |
| 33 | Chromatographic elution process design space development for the purification of saponins in <i>Panax notoginseng</i> extract using a probability-based approach. <i>Journal of Separation Science</i> , 2016, 39, 306-315.   | 2.5 | 11        |
| 34 | Development of an analytical method by defining a design space: a case study of saponin determination for <i>Panax notoginseng</i> extracts. <i>Analytical Methods</i> , 2016, 8, 2282-2289.  | 2.7 | 14        |
| 35 | The determination of dissociation constants for active ingredients from herbal extracts using a liquid-liquid equilibrium method. <i>Fluid Phase Equilibria</i> , 2016, 409, 447-457.   | 2.5 | 6         |
| 36 | Degradation Kinetics and Mechanism of Lithospermic Acid under Low Oxygen Condition Using Quantitative <sup>1</sup> H NMR with HPLC-MS. <i>PLoS ONE</i> , 2016, 11, e0164421.  | 2.5 | 4         |

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|----|---|-----|-----------|
| 37 | Process development for the decoloration of <i>Panax notoginseng</i> extracts: A design space approach. <i>Journal of Separation Science</i> , 2015, 38, 346-355.   | 2.5 | 15        |
| 38 | Design Space Development for the Extraction Process of Danhong Injection Using a Monte Carlo Simulation Method. <i>PLoS ONE</i> , 2015, 10, e0128236.   | 2.5 | 14        |
| 39 | Dependence of tablet brittleness on tensile strength and porosity. <i>International Journal of Pharmaceutics</i> , 2015, 493, 208-213.  | 5.2 | 32        |
| 40 | A new tablet brittleness index. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 93, 260-266.  | 4.3 | 55        |
| 41 | Optimization of a chromatographic process for the purification of saponins in <i>Panax notoginseng</i> extract using a design space approach. <i>Separation and Purification Technology</i> , 2015, 154, 309-319.   | 7.9 | 11        |
| 42 | Optimization of <i>Panax notoginseng</i> extraction process using a design space approach. <i>Separation and Purification Technology</i> , 2015, 141, 197-206.  | 7.9 | 21        |
| 43 | Removing Tannins from Medicinal Plant Extracts Using an Alkaline Ethanol Precipitation Process: A Case Study of Danshen Injection. <i>Molecules</i> , 2014, 19, 18705-18720.  | 3.8 | 20        |
| 44 | Optimization for the Ethanol Precipitation Process of Botanical Injection: Indicator Selection and Factor Influences. <i>Separation Science and Technology</i> , 2014, 49, 619-626.   | 2.5 | 8         |
| 45 | Control the effects caused by noise parameter fluctuations to improve pharmaceutical process robustness: A case study of design space development for an ethanol precipitation process. <i>Separation and Purification Technology</i> , 2014, 132, 126-137. | 7.9 | 19        |
| 46 | Unit Operation Optimization for the Manufacturing of Botanical Injections Using a Design Space Approach: A Case Study of Water Precipitation. <i>PLoS ONE</i> , 2014, 9, e104493.   | 2.5 | 16        |
| 47 | Optimization of the Ethanol Recycling Reflux Extraction Process for Saponins Using a Design Space Approach. <i>PLoS ONE</i> , 2014, 9, e114300.   | 2.5 | 24        |
| 48 | Application of Quality by Design to the Process Development of Botanical Drug Products: A Case Study. <i>AAPS PharmSciTech</i> , 2013, 14, 277-286.   | 3.3 | 38        |
| 49 | Analysis of urinary metabolites for breast cancer patients receiving chemotherapy by CE-MS coupled with on-line concentration. <i>Clinical Biochemistry</i> , 2013, 46, 1065-1073.  | 1.9 | 20        |
| 50 | Quantitative <sup>1</sup> H NMR method for hydrolytic kinetic investigation of salvianolic acid B. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 85, 28-32.  | 2.8 | 14        |
| 51 | Separation characteristics of ethanol precipitation for the purification of the water extract of medicinal plants. <i>Separation and Purification Technology</i> , 2013, 107, 273-280.  | 7.9 | 29        |
| 52 | Optimizing the Alcohol Precipitation of Danshen by Response Surface Methodology. <i>Separation Science and Technology</i> , 2013, 48, 977-983.  | 2.5 | 9         |
| 53 | Multi-criteria optimization for ultrasonic-assisted extraction of antioxidants from <i>Pericarpium Citri Reticulatae</i> using response surface methodology, an activity-based approach. <i>Journal of Separation Science</i> , 2013, 36, 1861-1868.        | 2.5 | 8         |
| 54 | Monitoring batch-to-batch reproducibility of liquid-liquid extraction process using in-line near-infrared spectroscopy combined with multivariate analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 70, 178-187.                   | 2.8 | 41        |

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|----|---|------|-----------|
| 55 | Solubilities of Protocatechuic Aldehyde, Caffeic Acid, $\alpha$ -Galactose, and $\alpha$ -Raffinose Pentahydrate in Ethanol-Water Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2018-2022.                                     | 1.9  | 24        |
| 56 | Application of Multivariate Curve Resolution Method in the Quantitative Monitoring Transformation of Salvianolic Acid A Using Online UV Spectroscopy and Mass Spectroscopy. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 3238-3245. | 3.7  | 10        |
| 57 | Solubility of Xylose, Mannose, Maltose Monohydrate, and Trehalose Dihydrate in Ethanol-Water Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 3264-3269.  | 1.9  | 38        |
| 58 | Comparison of Two Separation Technologies Applied in the Manufacture of Botanical Injections: Second Ethanol Precipitation and Solvent Extraction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 7542-7548.                          | 3.7  | 22        |
| 59 | Solid-Liquid Equilibria of D-Glucose, D-Fructose and Sucrose in the Mixture of Ethanol and Water from 273.2 K to 293.2 K. <i>Chinese Journal of Chemical Engineering</i> , 2011, 19, 217-222.   | 3.5  | 31        |
| 60 | Absorption and desorption of gaseous toluene by an absorbent microcapsules column. <i>Journal of Hazardous Materials</i> , 2010, 173, 243-248.  | 12.4 | 12        |
| 61 | Phase Equilibrium Calculations in Mixtures Containing Caprolactam with a UNIFAC Model. <i>Chinese Journal of Chemical Engineering</i> , 2010, 18, 286-291.  | 3.5  | 5         |
| 62 | Preparation of polysulfone microcapsules containing 1-octanol for the recovery of caprolactam. <i>Journal of Microencapsulation</i> , 2009, 26, 104-110.  | 2.8  | 20        |
| 63 | Preparation of Uniform Microcapsules Containing 1-Octanol for Caprolactam Extraction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 4507-4513.   | 3.7  | 21        |
| 64 | Selection and Evaluation of a New Extractant for Caprolactam Extraction. <i>Chinese Journal of Chemical Engineering</i> , 2008, 16, 876-880.  | 3.5  | 10        |
| 65 | Polysulphone microcapsules containing silicone oil for the removal of toxic volatile organics from water. <i>Journal of Microencapsulation</i> , 2008, 25, 196-202.   | 2.8  | 13        |
| 66 | Preparation of uniform microcapsules with silicone oil as continuous phase in a micro-dispersion process. <i>Journal of Microencapsulation</i> , 2007, 24, 767-776.   | 2.8  | 13        |
| 67 | Liquid-Liquid Equilibria of the Quaternary System Water + Caprolactam + 1-Octanol + Ammonium Sulfate. <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 851-855.  | 1.9  | 12        |
| 68 | Distribution Coefficient of Caprolactam and Methyl Caprolactam Using Benzene or Toluene as Extractants: Experiments and Prediction. <i>Chinese Journal of Chemical Engineering</i> , 2007, 15, 463-467.   | 3.5  | 8         |