

# Xingchu Gong

## List of Publications by Year in descending order

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68  
papers

908  
citations

394421

19  
h-index

552781

26  
g-index

73  
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73  
docs citations

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times ranked

793  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new tablet brittleness index. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 93, 260-266.	4.3	55
2	Monitoring batch-to-batch reproducibility of liquidâ€“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
3	Solubility of Xylose, Mannose, Maltose Monohydrate, and Trehalose Dihydrate in Ethanolâ€“Water Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 3264-3269.	1.9	38
4	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
5	Dependence of tablet brittleness on tensile strength and porosity. <i>International Journal of Pharmaceutics</i> , 2015, 493, 208-213.	5.2	32
6	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
7	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
8	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
9	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
10	Research progress on the ethanol precipitation process of traditional Chinese medicine. <i>Chinese Medicine</i> , 2020, 15, 84.	4.0	25
11	Solubilities of Protocatechuic Aldehyde, Caffeic Acid, <i>d</i> -Galactose, and <i>d</i> -Raffinose Pentahydrate in Ethanolâ€“Water Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2018-2022.	1.9	24
12	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
13	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
14	Preparation of Uniform Microcapsules Containing 1-Octanol for Caprolactam Extraction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 4507-4513.	3.7	21
15	Optimization of Panax notoginseng extraction process using a design space approach. <i>Separation and Purification Technology</i> , 2015, 141, 197-206.	7.9	21
16	Preparation of polysulfone microcapsules containing 1-octanol for the recovery of caprolactam. <i>Journal of Microencapsulation</i> , 2009, 26, 104-110.	2.8	20
17	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
18	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

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19	Chemical analysis, pharmacological activity and process optimization of the proportion of bilobalide and ginkgolides in Ginkgo biloba extract. Journal of Pharmaceutical and Biomedical Analysis, 2018, 160, 46-54.	2.8	20
20	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. Separation and Purification Technology, 2014, 132, 126-137.	7.9	19
21	Unit Operation Optimization for the Manufacturing of Botanical Injections Using a Design Space Approach: A Case Study of Water Precipitation. PLoS ONE, 2014, 9, e104493.	2.5	16
22	Process development for the decoloration of <i>Panax notoginseng</i> extracts: A design space approach. Journal of Separation Science, 2015, 38, 346-355.	2.5	15
23	Quantitative <sup>1</sup> H NMR method for hydrolytic kinetic investigation of salvianolic acid B. Journal of Pharmaceutical and Biomedical Analysis, 2013, 85, 28-32.	2.8	14
24	Design Space Development for the Extraction Process of Danhong Injection Using a Monte Carlo Simulation Method. PLoS ONE, 2015, 10, e0128236.	2.5	14
25	Development of an analytical method by defining a design space: a case study of saponin determination for <i>Panax notoginseng</i> extracts. Analytical Methods, 2016, 8, 2282-2289.	2.7	14
26	Preparation of uniform microcapsules with silicone oil as continuous phase in a micro-dispersion process. Journal of Microencapsulation, 2007, 24, 767-776.	2.8	13
27	Polysulphone microcapsules containing silicone oil for the removal of toxic volatile organics from water. Journal of Microencapsulation, 2008, 25, 196-202.	2.8	13
28	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
29	Liquid-Liquid Equilibria of the Quaternary System Water + Caprolactam + 1-Octanol + Ammonium Sulfate. Journal of Chemical & Engineering Data, 2007, 52, 851-855.	1.9	12
30	Absorption and desorption of gaseous toluene by an absorbent microcapsules column. Journal of Hazardous Materials, 2010, 173, 243-248.	12.4	12
31	Optimization of a chromatographic process for the purification of saponins in <i>Panax notoginseng</i> extract using a design space approach. Separation and Purification Technology, 2015, 154, 309-319.	7.9	11
32	Chromatographic elution process design space development for the purification of saponins in <i>Panax notoginseng</i> extract using a probability-based approach. Journal of Separation Science, 2016, 39, 306-315.	2.5	11
33	Fabrication of paper-based enzyme immobilized microarray by 3D-printing technique for screening $\alpha$ -glucosidase inhibitors in mulberry leaves and lotus leaves. Chinese Medicine, 2019, 14, 13.	4.0	11
34	Ethanol precipitation of <i>Codonopsis Radix</i> concentrate with a membrane dispersion micromixer. Journal of Cleaner Production, 2020, 251, 119633.	9.3	11
35	Selection and Evaluation of a New Extractant for Caprolactam Extraction. Chinese Journal of Chemical Engineering, 2008, 16, 876-880.	3.5	10
36	Application of Multivariate Curve Resolution Method in the Quantitative Monitoring Transformation of Salvianolic Acid A Using Online UV Spectroscopy and Mass Spectroscopy. Industrial & Engineering Chemistry Research, 2012, 51, 3238-3245.	3.7	10

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37	Development of an HPLC–MS method for the determination of four terpene trilactones in <i>Ginkgo biloba</i> leaf extract via quality by design. <i>Biomedical Chromatography</i> , 2021, 35, e5170.	1.7	10
38	Optimizing the Alcohol Precipitation of Danshen by Response Surface Methodology. <i>Separation Science and Technology</i> , 2013, 48, 977-983.	2.5	9
39	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
40	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
41	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
42	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
43	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
44	Liquid-liquid chromatography in sample pretreatment for quantitative analysis of trace component in traditional Chinese medicines by conventional liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1619, 460917.	3.7	8
45	Modeling of degradation kinetics of Salvianolic acid B at different temperatures and pH values. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 68-73.	3.5	7
46	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
47	Determination of inhibitory activity of <i>Salvia miltiorrhiza</i> extracts on xanthine oxidase with a paper-based analytical device. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 603-610.	5.3	7
48	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
49	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
50	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
51	Determination of the Dissociation Constants of 16 Active Ingredients in Medicinal Herbs Using a Liquid–Liquid Equilibrium Method. <i>Separations</i> , 2021, 8, 49.	2.4	5
52	Design Space Calculation and Continuous Improvement Considering a Noise Parameter: A Case Study of Ethanol Precipitation Process Optimization for Carthami Flos Extract. <i>Separations</i> , 2021, 8, 74.	2.4	5
53	Liquid chromatographic study of two structural isomeric pentacyclic triterpenes on reversed-phase stationary phase with hydroxypropyl- $\beta$ -cyclodextrin as mobile phase additive. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 207, 114420.	2.8	5
54	Preparation of Salvianolic Acid B Disodium Salt Considering the Water Extract Quality Standard. <i>Molecules</i> , 2019, 24, 1269.	3.8	4

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55	Degradation Kinetics and Mechanism of Lithospermic Acid under Low Oxygen Condition Using Quantitative <sup>1</sup> H NMR with HPLC-MS. PLoS ONE, 2016, 11, e0164421.	2.5	4
56	Measurement and Correlation of Liquid-Liquid Equilibria for the Ternary Systems of Water + D-Fructose + 1-Butanol, Water + D-Glucose + 1-Butanol, and Water + D-Galactose + 1-Butanol at (288.2, 303.2 and 318.2) K. Journal of Chemical & Engineering Data, 2017, 62, 2392-2399.	1.9	3
57	The development of Fructus corni quality standard considering the effects of processing. Chinese Journal of Chemical Engineering, 2021, 29, 77-84.	3.5	3
58	Research Progress on Quality Control Methods for Xiaochaihu Preparations. Separations, 2021, 8, 199.	2.4	3
59	Sinomenine Purification by Continuous Liquid-Liquid Extraction Process with Centrifugal Extractors. Advances in Chemical Engineering and Science, 2020, 10, 171-180.	0.5	3
60	Optimization of Steam Distillation Process and Chemical Constituents of Volatile Oil from Angelicae sinensis Radix. Separations, 2022, 9, 137.	2.4	3
61	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
62	Research Progress on the Separation of Alkaloids from Chinese Medicines by Column Chromatography. Advances in Chemical Engineering and Science, 2020, 10, 358-377.	0.5	1
63	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
64	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
65	Design and optimization of purification process of sinomenine hydrochloride. Chinese Journal of Chemical Engineering, 2023, 55, 63-72.	3.5	1
66	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
67	An Index for Quantitative Evaluation of the Mixing in Ethanol Precipitation of Traditional Chinese Medicine. Separations, 2021, 8, 181.	2.4	0
68	Determination of Critical Influencing Factor on pH Stability of Yuxingcao Injection. Pharmacology & Pharmacy, 2020, 11, 188-195.	0.7	0