

# Jianbo Chen

## List of Publications by Year in descending order

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43  
papers

906  
citations

430874

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501196

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Infrared spectroscopic identification of mineral drugs in herbal preparations with thermogravimetry-guided thermal separation—A case study of alum in a herbal powder for oral ulcer. <i>Journal of Molecular Structure</i> , 2022, 1249, 131581.	3.6	3
2	Color-reflected chemical regulations of the scorched rhubarb ( <i>Rhei Radix et Rhizoma</i> ) revealed by the integration analysis of visible spectrophotometry, Fourier transform infrared spectroscopy and high performance liquid chromatography. <i>Food Chemistry</i> , 2022, 367, 130730.	8.2	7
3	Two-dimensional correlation spectroscopy indicates the infrared spectral markers of the optimum scorching degree of rhubarb ( <i>Rhei Radix et Rhizoma</i> ) to enhance the anti-inflammatory activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120853.	3.9	4
4	A novel strategy to reduce the viscosity of cellulose-ionic liquid solution assisted by transition metal ions. <i>Carbohydrate Polymers</i> , 2021, 256, 117535.	10.2	5
5	Comparison of torrefied and lyophilized <i>Dendrobii Officinalis Caulis</i> (Tiepushihu) by Fourier transform infrared spectroscopy and two-dimensional correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2020, 1204, 127554.	3.6	12
6	Rapid and intelligent discrimination of <i>Notopterygium incisum</i> and <i>Notopterygium franchetii</i> by infrared spectroscopic fingerprints and electronic olfactory fingerprints. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 232, 118176.	3.9	7
7	Cascading chemical transitions of rhubarb ( <i>Rhei Radix et Rhizoma</i> ) during the scorching process revealed by heated ATR-FTIR spectroscopy and two-dimensional correlation analysis. <i>Journal of Molecular Structure</i> , 2020, 1216, 128307.	3.6	7
8	Interesting core-shell structure and $\alpha$ -V-shape-shift: The property and formation mechanism of structural heterogeneity in cellulose hydrogel. <i>Carbohydrate Polymers</i> , 2019, 217, 110-115.	10.2	5
9	Two-dimensional correlation spectroscopy reveals the underlying compositions for FT-NIR identification of the medicinal bulbs of the genus <i>Fritillaria</i> . <i>Journal of Molecular Structure</i> , 2018, 1155, 681-686.	3.6	14
10	Integrative two-dimensional correlation spectroscopy (i2DCOS) for the intuitive identification of adulterated herbal materials. <i>Journal of Molecular Structure</i> , 2018, 1163, 327-335.	3.6	42
11	Evaluation on the concentration change of paeoniflorin and glycyrrhizic acid in different formulations of Shaoyao-Gancao-Tang by the tri-level infrared macro-fingerprint spectroscopy and the whole analysis method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 93-100.	3.9	11
12	Chemical transitions of <i>Areca</i> semen during the thermal processing revealed by temperature-resolved ATR-FTIR spectroscopy and two-dimensional correlation analysis. <i>Journal of Molecular Structure</i> , 2018, 1155, 1-6.	3.6	15
13	Multilevel profiling and identification of <i>Dalbergia odorifera</i> and <i>Dalbergia stevensonii</i> by FTIR, NMR and GC/MS. <i>Chinese Chemical Letters</i> , 2018, 29, 1395-1398.	9.0	13
14	Rapid and Integrated Quality Assessment of Organic-Inorganic Composite Herbs by FTIR Spectroscopy—Global Chemical Fingerprints Identification and Multiple Marker Components Quantification of <i>Indigo Naturalis</i> ( <i>Qing Dai</i> ). <i>Molecules</i> , 2018, 23, 2743.	3.8	12
15	A Simple and Portable Screening Method for Adulterated Olive Oils Using the Hand-Held FTIR Spectrometer and Chemometrics Tools. <i>Journal of Food Science</i> , 2018, 83, 1605-1612.	3.1	26
16	Investigation of water diffusion in hydrogel pore-filled membrane via 2D correlation time-dependent ATR-FTIR spectroscopy. <i>Journal of Molecular Structure</i> , 2018, 1171, 600-604.	3.6	19
17	Anti-solvents tuning cellulose nanoparticles through two competitive regeneration routes. <i>Cellulose</i> , 2018, 25, 4513-4523.	4.9	21
18	Direct and model-free detection of carbohydrate excipients in traditional Chinese medicine formula granules by ATR-FTIR microspectroscopic imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2893-2904.	3.7	11

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19	Rapid and automatic chemical identification of the medicinal flower buds of <i>Lonicera</i> plants by the benchtop and hand-held Fourier transform infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 182, 81-86.	3.9	27
20	Crystallinity of regenerated cellulose from [Bmim]Cl dependent on the hydrogen bond acidity/basicity of anti-solvents. <i>RSC Advances</i> , 2017, 7, 41004-41010.	3.6	18
21	Rapid identification and quantification of carbohydrate excipients in <i>Gardeniae Fructus</i> formula granules by ATR-FTIR spectroscopy. <i>Analytical Methods</i> , 2016, 8, 8329-8336.	2.7	4
22	In Situ Monitoring the Molecular Diffusion Process in Graphene Oxide Membranes by ATR-FTIR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7451-7456.	3.1	22
23	Direct chemical characterization of natural wood resins by temperature-resolved and space-resolved Fourier transform infrared spectroscopy. <i>Journal of Molecular Structure</i> , 2016, 1115, 55-62.	3.6	17
24	Exploring the chemical mechanism of thermal processing of herbal materials by temperature-resolved infrared spectroscopy and two-dimensional correlation analysis. <i>Analytical Methods</i> , 2016, 8, 2243-2250.	2.7	16
25	Classification and identification of TCM by macro-interpretation based on FT-IR combined with 2DCOS-IR. <i>Biomedical Spectroscopy and Imaging</i> , 2015, 4, 139-158.	1.2	14
26	Data-driven signal-resolving approaches of infrared spectra to explore the macroscopic and microscopic spatial distribution of organic and inorganic compounds in plant. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5695-5706.	3.7	26
27	Tracking the curing process of automotive paint by moving-window two-dimensional infrared correlation spectroscopy and principal component analysis. <i>Journal of Molecular Structure</i> , 2014, 1069, 112-117.	3.6	12
28	Vibrational microspectroscopic identification of powdered traditional medicines: Chemical micromorphology of <i>Poria</i> observed by infrared and Raman microspectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 629-637.	3.9	27
29	Infrared microspectroscopic identification of marker ingredients in the finished herbal products based on the inherent heterogeneity of natural medicines. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4513-4525.	3.7	10
30	Differentiation of five species of <i>Danggui</i> raw materials by FTIR combined with 2D-COS IR. <i>Journal of Molecular Structure</i> , 2014, 1069, 229-235.	3.6	45
31	Infrared macro-fingerprint analysis-through-separation for holographic chemical characterization of herbal medicine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 74, 298-307.	2.8	27
32	Direct observation of bulk and surface chemical morphologies of <i>Ginkgo biloba</i> leaves by Fourier transform mid- and near-infrared microspectroscopic imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9385-9400.	3.7	25
33	What can two-dimensional correlation infrared spectroscopy (2D-IR) tell us about the composition, origin and authenticity of herbal medicines?. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 101-113.	1.2	8
34	Rapid discrimination of three kinds of <i>Radix Puerariae</i> and their extracts by Fourier transform infrared spectroscopy and two-dimensional correlation infrared spectroscopy. <i>Journal of Molecular Structure</i> , 2012, 1018, 88-95.	3.6	14
35	Analysis and identification of different animal horns by a three-stage infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 265-270.	3.9	28
36	Evaluation of different grades of ginseng using Fourier-transform infrared and two-dimensional infrared correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2010, 974, 94-102.	3.6	25

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37	Analysis of crystallized lactose in milk powder by Fourier-transform infrared spectroscopy combined with two-dimensional correlation infrared spectroscopy. <i>Journal of Molecular Structure</i> , 2010, 974, 88-93.	3.6	48
38	Discrimination of five species of <i>Fritillaria</i> and its extracts by FT-IR and 2D-IR. <i>Journal of Molecular Structure</i> , 2010, 974, 68-72.	3.6	39
39	The study of <i>Cistanche deserticola</i> using Fourier transform infrared spectroscopy combined with two-dimensional correlation infrared spectroscopy. <i>Journal of Molecular Structure</i> , 2010, 974, 156-160.	3.6	5
40	Discrimination of different red wine by Fourier-transform infrared and two-dimensional infrared correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2010, 974, 144-150.	3.6	55
41	Application of Mid-Infrared Spectroscopy in the Quality Control of Traditional Chinese Medicines. <i>Planta Medica</i> , 2010, 76, 1987-1996.	1.3	101
42	Discrimination of different genera <i>Astragalus</i> samples via quantitative symmetry analysis of two-dimensional hetero correlation spectra. <i>Analytica Chimica Acta</i> , 2009, 649, 106-110.	5.4	20
43	Quantitative Classification of Two-Dimensional Correlation Spectra. <i>Applied Spectroscopy</i> , 2009, 63, 920-925.	2.2	39