Jianbo Chen

List of Publications by Year
in descending order

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43	906	430874	501196
papers	citations	18 h-index	28 g-index

43	43	43	709
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of Mid-Infrared Spectroscopy in the Quality Control of Traditional Chinese Medicines. Planta Medica, 2010, 76, 1987-1996.	1.3	101
2	Discrimination of different red wine by Fourier-transform infrared and two-dimensional infrared correlation spectroscopy. Journal of Molecular Structure, 2010, 974, 144-150.	3.6	55
3	Analysis of crystallized lactose in milk powder by Fourier-transform infrared spectroscopy combined with two-dimensional correlation infrared spectroscopy. Journal of Molecular Structure, 2010, 974, 88-93.	3.6	48
4	Differentiation of five species of Danggui raw materials by FTIR combined with 2D-COS IR. Journal of Molecular Structure, 2014, 1069, 229-235.	3.6	45
5	Integrative two-dimensional correlation spectroscopy (i2DCOS) for the intuitive identification of adulterated herbal materials. Journal of Molecular Structure, 2018, 1163, 327-335.	3.6	42
6	Quantitative Classification of Two-Dimensional Correlation Spectra. Applied Spectroscopy, 2009, 63, 920-925.	2.2	39
7	Discrimination of five species of Fritillaria and its extracts by FT-IR and 2D-IR. Journal of Molecular Structure, 2010, 974, 68-72.	3.6	39
8	Analysis and identification of different animal horns by a three-stage infrared spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 83, 265-270.	3.9	28
9	Infrared macro-fingerprint analysis-through-separation for holographic chemical characterization of herbal medicine. Journal of Pharmaceutical and Biomedical Analysis, 2013, 74, 298-307.	2.8	27
10	Vibrational microspectroscopic identification of powdered traditional medicines: Chemical micromorphology of Poria observed by infrared and Raman microspectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 629-637.	3.9	27
11	Rapid and automatic chemical identification of the medicinal flower buds of Lonicera plants by the benchtop and hand-held Fourier transform infrared spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 182, 81-86.	3.9	27
12	Data-driven signal-resolving approaches of infrared spectra to explore the macroscopic and microscopic spatial distribution of organic and inorganic compounds in plant. Analytical and Bioanalytical Chemistry, 2015, 407, 5695-5706.	3.7	26
13	A Simple and Portable Screening Method for Adulterated Olive Oils Using the Handâ€Held FTIR Spectrometer and Chemometrics Tools. Journal of Food Science, 2018, 83, 1605-1612.	3.1	26
14	Evaluation of different grades of ginseng using Fourier-transform infrared and two-dimensional infrared correlation spectroscopy. Journal of Molecular Structure, 2010, 974, 94-102.	3.6	25
15	Direct observation of bulk and surface chemical morphologies of Ginkgo biloba leaves by Fourier transform mid- and near-infrared microspectroscopic imaging. Analytical and Bioanalytical Chemistry, 2013, 405, 9385-9400.	3.7	25
16	In Situ Monitoring the Molecular Diffusion Process in Graphene Oxide Membranes by ATR-FTIR Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 7451-7456.	3.1	22
17	Anti-solvents tuning cellulose nanoparticles through two competitive regeneration routes. Cellulose, 2018, 25, 4513-4523.	4.9	21
18	Discrimination of different genera Astragalus samples via quantitative symmetry analysis of two-dimensional hetero correlation spectra. Analytica Chimica Acta, 2009, 649, 106-110.	5.4	20

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19	Investigation of water diffusion in hydrogel pore-filled membrane via 2D correlation time-dependent ATR-FTIR spectroscopy. Journal of Molecular Structure, 2018, 1171, 600-604.	3.6	19
20	Crystallinity of regenerated cellulose from [Bmim]Cl dependent on the hydrogen bond acidity/basicity of anti-solvents. RSC Advances, 2017, 7, 41004-41010.	3.6	18
21	Direct chemical characterization of natural wood resins by temperature-resolved and space-resolved Fourier transform infrared spectroscopy. Journal of Molecular Structure, 2016, 1115, 55-62.	3.6	17
22	Exploring the chemical mechanism of thermal processing of herbal materials by temperature-resolved infrared spectroscopy and two-dimensional correlation analysis. Analytical Methods, 2016, 8, 2243-2250.	2.7	16
23	Chemical transitions of Areca semen during the thermal processing revealed by temperature-resolved ATR-FTIR spectroscopy and two-dimensional correlation analysis. Journal of Molecular Structure, 2018, 1155, 1-6.	3.6	15
24	Rapid discrimination of three kinds of Radix Puerariae and their extracts by Fourier transform infrared spectroscopy and two-dimensional correlation infrared spectroscopy. Journal of Molecular Structure, 2012, 1018, 88-95.	3.6	14
25	Classification and identification of TCM by macro-interpretation based on FT-IR combined with 2DCOS-IR. Biomedical Spectroscopy and Imaging, 2015, 4, 139-158.	1.2	14
26	Two-dimensional correlation spectroscopy reveals the underlying compositions for FT-NIR identification of the medicinal bulbs of the genus Fritillaria. Journal of Molecular Structure, 2018, 1155, 681-686.	3.6	14
27	Multilevel profiling and identification of Dalbergia odorifera and Dalbergia stevensonii by FTIR, NMR and GC/MS. Chinese Chemical Letters, 2018, 29, 1395-1398.	9.0	13
28	Tracking the curing process of automotive paint by moving-window two-dimensional infrared correlation spectroscopy and principal component analysis. Journal of Molecular Structure, 2014, 1069, 112-117.	3.6	12
29	Rapid and Integrated Quality Assessment of Organic-Inorganic Composite Herbs by FTIR Spectroscopyâ€"Global Chemical Fingerprints Identification and Multiple Marker Components Quantification of Indigo Naturalis (Qing Dai). Molecules, 2018, 23, 2743.	3.8	12
30	Comparison of torrefied and lyophilized Dendrobii Officinalis Caulis (Tiepishihu) by Fourier transform infrared spectroscopy and two-dimensional correlation spectroscopy. Journal of Molecular Structure, 2020, 1204, 127554.	3.6	12
31	Direct and model-free detection of carbohydrate excipients in traditional Chinese medicine formula granules by ATR-FTIR microspectroscopic imaging. Analytical and Bioanalytical Chemistry, 2017, 409, 2893-2904.	3.7	11
32	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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 93-100.	3.9	11
33	Infrared microspectroscopic identification of marker ingredients in the finished herbal products based on the inherent heterogeneity of natural medicines. Analytical and Bioanalytical Chemistry, 2014, 406, 4513-4525.	3.7	10
34	What can two-dimensional correlation infrared spectroscopy (2D-IR) tell us about the composition, origin and authenticity of herbal medicines?. Biomedical Spectroscopy and Imaging, 2013, 2, 101-113.	1.2	8
35	Rapid and intelligent discrimination of Notopterygium incisum and Notopterygium franchetii by infrared spectroscopic fingerprints and electronic olfactory fingerprints. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 232, 118176.	3.9	7
36	Cascading chemical transitions of rhubarb (Rhei Radix et Rhizoma) during the scorching process revealed by heated ATR-FTIR spectroscopy and two-dimensional correlation analysis. Journal of Molecular Structure, 2020, 1216, 128307.	3.6	7

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37	Color-reflected chemical regulations of the scorched rhubarb (Rhei Radix et Rhizoma) revealed by the integration analysis of visible spectrophotometry, Fourier transform infrared spectroscopy and high performance liquid chromatography. Food Chemistry, 2022, 367, 130730.	8.2	7
38	The study of Cistanche deserticola using Fourier transform infrared spectroscopy combined with two-dimensional correlation infrared spectroscopy. Journal of Molecular Structure, 2010, 974, 156-160.	3.6	5
39	Interesting coreâ€“shell structure and â€œV-shapeâ€•shift: The property and formation mechanism of structural heterogeneity in cellulose hydrogel. Carbohydrate Polymers, 2019, 217, 110-115.	10.2	5
40	A novel strategy to reduce the viscosity of cellulose-ionic liquid solution assisted by transition metal ions. Carbohydrate Polymers, 2021, 256, 117535.	10.2	5
41	Rapid identification and quantification of carbohydrate excipients in Gardeniae Fructus formula granules by ATR-FTIR spectroscopy. Analytical Methods, 2016, 8, 8329-8336.	2.7	4
42	Two-dimensional correlation spectroscopy indicates the infrared spectral markers of the optimum scorching degree of rhubarb (Rhei Radix et Rhizoma) to enhance the anti-inflammatory activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120853.	3.9	4
43	Infrared spectroscopic identification of mineral drugs in herbal preparations with thermogravimetry-guided thermal separationâ€“A case study of alum in a herbal powder for oral ulcer. Journal of Molecular Structure, 2022, 1249, 131581.	3.6	3