

Sheng Fan

List of Publications by Year in descending order

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24
papers

500
citations

687363

13
h-index

677142

22
g-index

27
all docs

27
docs citations

27
times ranked

567
citing authors

#	ARTICLE	IF	CITATIONS
1	Amperometric Detection of Glucose with Glucose Oxidase Absorbed on Porous Nanocrystalline TiO ₂ Film. <i>Electroanalysis</i> , 2001, 13, 413-416.	2.9	98
2	Fast Screening and Primary Diagnosis of COVID-19 by ATR-FT-IR. <i>Analytical Chemistry</i> , 2021, 93, 2191-2199.	6.5	51
3	Distinction of four <i>Dalbergia</i> species by FTIR, 2 nd derivative IR, and 2D-IR spectroscopy of their ethanol-benzene extractives. <i>Holzforschung</i> , 2016, 70, 503-510.	1.9	34
4	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
5	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
6	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
7	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
8	Anti-solvents tuning cellulose nanoparticles through two competitive regeneration routes. <i>Cellulose</i> , 2018, 25, 4513-4523.	4.9	21
9	Identification of <i>Dalbergia cochinchinensis</i> (CITES Appendix II) from other three <i>Dalbergia</i> species using FT-IR and 2D correlation IR spectroscopy. <i>Wood Science and Technology</i> , 2016, 50, 693-704.	3.2	20
10	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
11	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
12	Chemical morphology of Areca nut characterized directly by Fourier transform near-infrared and mid-infrared microspectroscopic imaging in reflection modes. <i>Food Chemistry</i> , 2016, 212, 469-475.	8.2	16
13	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
14	Optimization of the extraction process of flavonoids from <i>Trollius ledebouri</i> with natural deep eutectic solvents. <i>Journal of Separation Science</i> , 2022, 45, 717-727.	2.5	15
15	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
16	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
17	Improving the Classification Accuracy for Near-Infrared Spectroscopy of Chinese <i>Salvia miltiorrhiza</i> Using Local Variable Selection. <i>Journal of Analytical Methods in Chemistry</i> , 2018, 2018, 1-9.	1.6	10
18	Oxidative modifications and structural changes of human serum albumin in response to air dielectric barrier discharge plasma. <i>High Voltage</i> , 2021, 6, 813-821.	4.7	10

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19	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
20	In situ monitoring the moisture absorption of three ionic liquids with different halogen anions by ATR-FTIR spectroscopy. <i>Journal of Molecular Structure</i> , 2018, 1164, 297-302.	3.6	6
21	Interesting core-shell structure and 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
22	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
23	Rapid identification and quantification of carbohydrate excipients in Gardeniae Fructus formula granules by ATR-FTIR spectroscopy. <i>Analytical Methods</i> , 2016, 8, 8329-8336.	2.7	4
24	Surfactant-assisted fabrication of ultra-permeable cellulose gels with macro channels and insights on regeneration of cellulose from ionic liquids. <i>Journal of Molecular Liquids</i> , 2019, 280, 64-70.	4.9	4