Zhisheng Wu

List of Publications by Year
in descending order

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64	851	471509	526287
papers	citations	17	27
		h-index	g-index

65	65	65	815
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanosystem trends in drug delivery using quality-by-design concept. Journal of Controlled Release, 2017, 256, 9-18.	9.9	71
2	NIR analysis for batch process of ethanol precipitation coupled with a new calibration model updating strategy. Analytica Chimica Acta, 2012, 720, 22-28.	5.4	64
3	Validation of a NIR quantification method for the determination of chlorogenic acid in Lonicera japonica solution in ethanol precipitation process. Journal of Pharmaceutical and Biomedical Analysis, 2012, 62, 1-6.	2.8	53
4	Multivariate detection limits of on-line NIR model for extraction process of chlorogenic acid from Lonicera japonica. Journal of Pharmaceutical and Biomedical Analysis, 2013, 77, 16-20.	2.8	45
5	NIR spectroscopy as a process analytical technology (PAT) tool for monitoring and understanding of a hydrolysis process. Bioresource Technology, 2013, 137, 394-399.	9.6	42
6	MDL and RMSEP assessment of spectral pretreatments by adding different noises in calibration/validation datasets. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 163, 20-27.	3.9	40
7	LC-MSâ€“MS in MRM Mode for Detection and Structural Identification of Synthetic Hypoglycemic Drugs Added Illegally to â€˜Naturalâ€™ Anti-Diabetic Herbal Products. Chromatographia, 2009, 70, 1353-1359.	1.3	38
8	Low risk of category misdiagnosis of rice syrup adulteration in three botanical origin honey by ATR-FTIR and general model. Food Chemistry, 2020, 332, 127356.	8.2	31
9	Systematic discovery about NIR spectral assignment from chemical structural property to natural chemical compounds. Scientific Reports, 2019, 9, 9503.	3.3	27
10	A promising approach for understanding the mechanism of Traditional Chinese Medicine by the aggregation morphology. Journal of Ethnopharmacology, 2009, 123, 267-274.	4.1	26
11	Rapid Elemental Analysis and Provenance Study of Blumea balsamifera DC Using Laser-Induced Breakdown Spectroscopy. Sensors, 2015, 15, 642-655.	3.8	25
12	A novel model selection strategy using total error concept. Talanta, 2013, 107, 248-254.	5.5	24
13	A new calibration model transferring strategy maintaining the predictive abilities of NIR multivariate calibration model applied in different batches process of extraction. Infrared Physics and Technology, 2019, 103, 103046.	2.9	22
14	Visualizing excipient composition and homogeneity of Compound Liquorice Tablets by near-infrared chemical imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 86, 631-636.	3.9	20
15	Monitoring of a pharmaceutical blending process using near infrared chemical imaging. Vibrational Spectroscopy, 2012, 63, 371-379.	2.2	19
16	Development and validation of NIR model using low-concentration calibration range: rapid analysis of Lonicera japonica solution in ethanol precipitation process. Analytical Methods, 2012, 4, 1084.	2.7	18
17	A Online NIR Sensor for the Pilot-Scale Extraction Process in Fructus Aurantii Coupled with Single and Ensemble Methods. Sensors, 2015, 15, 8749-8763.	3.8	17
18	Online near-infrared analysis coupled with MWPLS and SiPLS models for the multi-ingredient and multi-phase extraction of licorice (Gancao). Chinese Medicine, 2015, 10, 38.	4.0	15

#	Article	IF	Citations
19	Monitoring As and Hg variation in An-Gong-Niu-Huang Wan (AGNH) intermediates in a pilot scale blending process using laser-induced breakdown spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 151, 547-552.	3.9	15
20	Absorption and quantitative characteristics of C-H bond and O-H bond of NIR. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 703-709.	0.6	14
21	Absorption characteristics and quantitative contribution of overtones and combination of NIR: Method development and validation. Journal of Molecular Structure, 2012, 1019, 97-102.	3.6	12
22	Near-infrared for on-line determination of quality parameter of Sophora japonica L. (formula) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 T 8.	0.6	12
23	Investigation of the distributional homogeneity on chlorpheniramine maleate tablets using NIR-CI. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 204, 783-790.	3.9	12
24	Hepatoprotective effects of Rubus aleaefolius Poir. and identification of its active constituents. Journal of Ethnopharmacology, 2010, 129, 267-272.	4.1	11
25	New sensor technologies in quality evaluation of Chinese materia medica: 2010â€“2015. Acta Pharmaceutica Sinica B, 2017, 7, 137-145.	12.0	11
26	Discovery of the Linear Region of Near Infrared Diffuse Reflectance Spectra Using the Kubelka-Munk Theory. Frontiers in Chemistry, 2018, 6, 154.	3.6	11
27	Novel NIR modeling design and assignment in process quality control of Honeysuckle flower by QbD. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118740.	3.9	11
28	Color spaces of safflower (Carthamus tinctorius L.) for quality assessment. Journal of Traditional Chinese Medical Sciences, 2016, 3, 168-175.	0.2	10
29	Comparison of Ensemble Strategies in Online NIR for Monitoring the Extraction Process of Pericarpium Citri Reticulatae Based on Different Variable Selections. Planta Medica, 2016, 82, 154-162.	1.3	9
30	Pharmaceutical Analysis Model Robustness From Bagging-PLS and PLS Using Systematic Tracking Mapping. Frontiers in Chemistry, 2018, 6, 262.	3.6	9
31	Development of MIF/IL-1Î² biosensors for discovery of critical quality attributes and potential allergic rhinitis targets from clinical real-world data by intelligent algorithm coupled with in vitro and vivo mechanism validation. Biosensors and Bioelectronics, 2021, 194, 113608.	10.1	9
32	PAT: From Western solid dosage forms to Chinese materia medica preparations using NIRâ€CI. Drug Testing and Analysis, 2016, 8, 71-85.	2.6	8
33	Geographical authenticity evaluation of Mentha haplocalyx by LIBS coupled with multivariate analyses. Plasma Science and Technology, 2020, 22, 074006.	1.5	8
34	A rapid analysis method of safflower (Carthamus tinctorius L.) using combination of computer vision and near-infrared. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 236, 118360.	3.9	8
35	System optimisation quantitative model of onâ€line NIR: a case of Glycyrrhiza uralensis Fisch extraction process. Phytochemical Analysis, 2021, 32, 165-171.	2.4	7
36	Near Infrared Spectroscopy Model Development and Variable Importance in Projection Assignment of Particle Size and Lobetyolin Content of Codonopsis Radix. Journal of Near Infrared Spectroscopy, 2015, 23, 327-335.	1.5	6

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37	Optimization of PLS modeling parameters via quality by design concept for Gardenia jasminoides Ellis using online NIR sensor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 222, 117267.	3.9	6
38	Real-time process quality control of ramulus cinnamomi by critical quality attribute using microscale thermophoresis and on-line NIR. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117463.	3.9	6
39	A new PAT application: Optimization of processing methods for honeysuckle flower (Lonicerae) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Sciences, 2018, 5, 199-205.	0.2	5
40	Target-oriented overall process optimization (TOPO) for reducing variability in the quality of herbal medicine products. Chemometrics and Intelligent Laboratory Systems, 2013, 128, 144-152.	3.5	4
41	Deoxyschizandrin Loaded Liposomes on the Suppression Lipid Accumulation in 3T3-L1 Adipocytes. Molecules, 2018, 23, 2158.	3.8	4
42	High-level Fusion Coupled with Mahalanobis Distance Weighted (MDW) Method for Multivariate Calibration. Scientific Reports, 2020, 10, 5478.	3.3	4
43	NIR robustness model of variable selection investigation of critical quality attributes coupled with different simulate noises by prediction capability and reproducibility. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120522.	3.9	4
44	Rapid Discrimination of Chlorpheniramine Maleate and Assessment of Its Surface Content Uniformity in a Pharmaceutical Formulation by NIR-CI Coupled with Statistical Measurement. Journal of Spectroscopy, 2014, 2014, 1-9.	1.3	3
45	NIR assignment of isopsoralen by 2D-COS technology and model application in Yunkang Oral Liquid. Journal of Innovative Optical Health Sciences, 2015, 08, 1550023.	1.0	3
46	Near-infrared chemical imaging for quantitative analysis of chlorpheniramine maleate and distribution homogeneity assessment in pharmaceutical formulations. Journal of Innovative Optical Health Sciences, 2016, 09, 1650002.	1.0	3
47	Error propagation of partial least squares for parameters optimization in NIR modeling. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 244-250.	3.9	3
48	Validation of NIR Model for On-line Monitoring of Flos Lonicera Japonica Extraction Process with Different Batches of Materials. International Journal of Online and Biomedical Engineering, 2013, 9, 44.	1.4	3
49	Quality-by-design: Multivariate model for multicomponent quantification in refining process of honey. Pharmacognosy Magazine, 2017, 13, 193.	0.6	3
50	A novel algorithm for blending process monitoring of Angong Niuhuang intermediate using vector operation moving block standard deviation. Proceedings of SPIE, 2014, , .	0.8	2
51	Micro-Electro-Mechanical Systems/Near-Infrared Validation of Different Sampling Modes and Sample Sets Coupled with Multiple Models. Planta Medica, 2015, 81, 167-174.	1.3	2
52	Dealing with heterogeneous classification problem in the framework of multi-instance learning. Talanta, 2015, 132, 175-181.	5.5	2
53	Rapid analysis of dyed safflowers by color objectification and pattern recognition methods. Journal of Traditional Chinese Medical Sciences, 2016, 3, 234-241.	0.2	2
54	Rapid analysis of spatial distribution of PVPP and hardness of Yinhuang dispersible tablets by NIR-CI. Journal of Innovative Optical Health Sciences, 2016, 09, 1550016.	1.0	2

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55	Protective effects of Re-yan-ning mixture on Streptococcus pneumonia in rats based on network pharmacology. Pharmaceutical Biology, 2021, 59, 207-219.	2.9	2
56	Development of chromatographic fingerprint for quality analysis of diploid and tetraploid Lonicera japonica. Journal of Traditional Chinese Medicine, 2020, 40, 73-82.	0.2	2
57	NIR Determination of Three Critical Quality Attributes in Alcohol Precipitation Process of Lonicerae Japonicae with Uncertainty Analysis. , 2012, , .		1
58	Development and Validation of a Portable AOTF-NIR Measurement Method for the Determination of Baicalin in Yinhuang Oral Solution. , 2012, , .		1
59	NIR rapid assessments of Chinese material medica: simultaneous determination of three major active components of licorice. , 2014, , .		1
60	Robust PLS Prediction Model for Saikosaponin A inBupleurum chinenseDC. Coupled with Granularity-Hybrid Calibration Set. Journal of Analytical Methods in Chemistry, 2015, 2015, 1-7.	1.6	1
61	Feasibility Analysis of Lower Limit of Quantification of NIR for Solvent in Different Hydrogen Bonds Environment Using Multivariate Calibrations. , 2012, , .		0
62	Estimation of multivariate detection limits of four quality parameters in licorice using MEMSâ€“NIR spectrometry coupled with two sampling accessories. Journal of Innovative Optical Health Sciences, 2015, 08, 1550009.	1.0	0
63	Process quality control of the manufacturing of Chinese Materia Medica by process analysis technology. NIR News, 2019, 30, 14-18.	0.3	0
64	Performance evaluation of variable selection methods coupled with partial least squares regression to determine the target component in solid samples. Journal of Near Infrared Spectroscopy, 0, , 096703352210972.	1.5	0