

Zhisheng Wu

List of Publications by Year in descending order

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64
papers

851
citations

471509

17
h-index

526287

27
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docs citations

65
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	NIR robustness model of variable selection investigation of critical quality attributes coupled with different simulate noises by prediction capability and reproducibility. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120522.	3.9	4
2	System optimisation quantitative model of on-line NIR: a case of <i>Glycyrrhiza uralensis</i> Fisch extraction process. <i>Phytochemical Analysis</i> , 2021, 32, 165-171.	2.4	7
3	Protective effects of Re-yan-ning mixture on <i>Streptococcus pneumoniae</i> in rats based on network pharmacology. <i>Pharmaceutical Biology</i> , 2021, 59, 207-219.	2.9	2
4	Development of MIF/IL-1 β 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. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113608.	10.1	9
5	Real-time process quality control of ramulus cinnamomi by critical quality attribute using microscale thermophoresis and on-line NIR. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117463.	3.9	6
6	Novel NIR modeling design and assignment in process quality control of Honeysuckle flower by QbD. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118740.	3.9	11
7	Low risk of category misdiagnosis of rice syrup adulteration in three botanical origin honey by ATR-FTIR and general model. <i>Food Chemistry</i> , 2020, 332, 127356.	8.2	31
8	Geographical authenticity evaluation of <i>Mentha haplocalyx</i> by LIBS coupled with multivariate analyses. <i>Plasma Science and Technology</i> , 2020, 22, 074006.	1.5	8
9	High-level Fusion Coupled with Mahalanobis Distance Weighted (MDW) Method for Multivariate Calibration. <i>Scientific Reports</i> , 2020, 10, 5478.	3.3	4
10	A rapid analysis method of safflower (<i>Carthamus tinctorius</i> L.) using combination of computer vision and near-infrared. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 236, 118360.	3.9	8
11	Development of chromatographic fingerprint for quality analysis of diploid and tetraploid <i>Lonicera japonica</i> . <i>Journal of Traditional Chinese Medicine</i> , 2020, 40, 73-82.	0.2	2
12	Systematic discovery about NIR spectral assignment from chemical structural property to natural chemical compounds. <i>Scientific Reports</i> , 2019, 9, 9503.	3.3	27
13	Process quality control of the manufacturing of Chinese Materia Medica by process analysis technology. <i>NIR News</i> , 2019, 30, 14-18.	0.3	0
14	A new calibration model transferring strategy maintaining the predictive abilities of NIR multivariate calibration model applied in different batches process of extraction. <i>Infrared Physics and Technology</i> , 2019, 103, 103046.	2.9	22
15	Optimization of PLS modeling parameters via quality by design concept for <i>Gardenia jasminoides</i> Ellis using online NIR sensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 222, 117267.	3.9	6
16	A new PAT application: Optimization of processing methods for honeysuckle flower (<i>Lonicerae</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 Sciences, 2018, 5, 199-205.	0.2	5
17	Error propagation of partial least squares for parameters optimization in NIR modeling. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 244-250.	3.9	3
18	Deoxyschizandrin Loaded Liposomes on the Suppression Lipid Accumulation in 3T3-L1 Adipocytes. <i>Molecules</i> , 2018, 23, 2158.	3.8	4

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19	Investigation of the distributional homogeneity on chlorpheniramine maleate tablets using NIR-CI. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 783-790.	3.9	12
20	Pharmaceutical Analysis Model Robustness From Bagging-PLS and PLS Using Systematic Tracking Mapping. <i>Frontiers in Chemistry</i> , 2018, 6, 262.	3.6	9
21	Discovery of the Linear Region of Near Infrared Diffuse Reflectance Spectra Using the Kubelka-Munk Theory. <i>Frontiers in Chemistry</i> , 2018, 6, 154.	3.6	11
22	Nanosystem trends in drug delivery using quality-by-design concept. <i>Journal of Controlled Release</i> , 2017, 256, 9-18.	9.9	71
23	New sensor technologies in quality evaluation of Chinese materia medica: 2010-2015. <i>Acta Pharmaceutica Sinica B</i> , 2017, 7, 137-145.	12.0	11
24	Quality-by-design: Multivariate model for multicomponent quantification in refining process of honey. <i>Pharmacognosy Magazine</i> , 2017, 13, 193.	0.6	3
25	Rapid analysis of dyed safflowers by color objectification and pattern recognition methods. <i>Journal of Traditional Chinese Medical Sciences</i> , 2016, 3, 234-241.	0.2	2
26	Color spaces of safflower (<i>Carthamus tinctorius</i> L.) for quality assessment. <i>Journal of Traditional Chinese Medical Sciences</i> , 2016, 3, 168-175.	0.2	10
27	MDL and RMSEP assessment of spectral pretreatments by adding different noises in calibration/validation datasets. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 163, 20-27.	3.9	40
28	Rapid analysis of spatial distribution of PVPP and hardness of Yinhuang dispersible tablets by NIR-CI. <i>Journal of Innovative Optical Health Sciences</i> , 2016, 09, 1550016.	1.0	2
29	Comparison of Ensemble Strategies in Online NIR for Monitoring the Extraction Process of <i>Pericarpium Citri Reticulatae</i> Based on Different Variable Selections. <i>Planta Medica</i> , 2016, 82, 154-162.	1.3	9
30	Near-infrared chemical imaging for quantitative analysis of chlorpheniramine maleate and distribution homogeneity assessment in pharmaceutical formulations. <i>Journal of Innovative Optical Health Sciences</i> , 2016, 09, 1650002.	1.0	3
31	PAT: From Western solid dosage forms to Chinese materia medica preparations using NIR-CI. <i>Drug Testing and Analysis</i> , 2016, 8, 71-85.	2.6	8
32	Near Infrared Spectroscopy Model Development and Variable Importance in Projection Assignment of Particle Size and Lobetyolin Content of <i>Codonopsis Radix</i> . <i>Journal of Near Infrared Spectroscopy</i> , 2015, 23, 327-335.	1.5	6
33	Online near-infrared analysis coupled with MWPLS and SiPLS models for the multi-ingredient and multi-phase extraction of licorice (<i>Gancao</i>). <i>Chinese Medicine</i> , 2015, 10, 38.	4.0	15
34	Robust PLS Prediction Model for Saikosaponin A in <i>Bupleurum chinense</i> DC. Coupled with Granularity-Hybrid Calibration Set. <i>Journal of Analytical Methods in Chemistry</i> , 2015, 2015, 1-7.	1.6	1
35	Near-infrared for on-line determination of quality parameter of <i>Sophora japonica</i> L. (formula) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 8.	0.6	12
36	Estimation of multivariate detection limits of four quality parameters in licorice using MEMS-NIR spectrometry coupled with two sampling accessories. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1550009.	1.0	0

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37	NIR assignment of isopsoralen by 2D-COS technology and model application in Yunkang Oral Liquid. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1550023.	1.0	3
38	Micro-Electro-Mechanical Systems/Near-Infrared Validation of Different Sampling Modes and Sample Sets Coupled with Multiple Models. <i>Planta Medica</i> , 2015, 81, 167-174.	1.3	2
39	A Online NIR Sensor for the Pilot-Scale Extraction Process in Fructus Aurantii Coupled with Single and Ensemble Methods. <i>Sensors</i> , 2015, 15, 8749-8763.	3.8	17
40	Monitoring As and Hg variation in An-Gong-Niu-Huang Wan (AGNH) intermediates in a pilot scale blending process using laser-induced breakdown spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 547-552.	3.9	15
41	Rapid Elemental Analysis and Provenance Study of <i>Blumea balsamifera</i> DC Using Laser-Induced Breakdown Spectroscopy. <i>Sensors</i> , 2015, 15, 642-655.	3.8	25
42	Dealing with heterogeneous classification problem in the framework of multi-instance learning. <i>Talanta</i> , 2015, 132, 175-181.	5.5	2
43	Rapid Discrimination of Chlorpheniramine Maleate and Assessment of Its Surface Content Uniformity in a Pharmaceutical Formulation by NIR-CI Coupled with Statistical Measurement. <i>Journal of Spectroscopy</i> , 2014, 2014, 1-9.	1.3	3
44	A novel algorithm for blending process monitoring of Angong Niu Huang intermediate using vector operation moving block standard deviation. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
45	NIR rapid assessments of Chinese material medica: simultaneous determination of three major active components of licorice. , 2014, , .		1
46	Absorption and quantitative characteristics of C-H bond and O-H bond of NIR. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2014, 117, 703-709.	0.6	14
47	Multivariate detection limits of on-line NIR model for extraction process of chlorogenic acid from <i>Lonicera japonica</i> . <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 77, 16-20.	2.8	45
48	NIR spectroscopy as a process analytical technology (PAT) tool for monitoring and understanding of a hydrolysis process. <i>Bioresource Technology</i> , 2013, 137, 394-399.	9.6	42
49	A novel model selection strategy using total error concept. <i>Talanta</i> , 2013, 107, 248-254.	5.5	24
50	Target-oriented overall process optimization (TOPO) for reducing variability in the quality of herbal medicine products. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 128, 144-152.	3.5	4
51	Validation of NIR Model for On-line Monitoring of Flos <i>Lonicera Japonica</i> Extraction Process with Different Batches of Materials. <i>International Journal of Online and Biomedical Engineering</i> , 2013, 9, 44.	1.4	3
52	NIR Determination of Three Critical Quality Attributes in Alcohol Precipitation Process of <i>Lonicerae Japonicae</i> with Uncertainty Analysis. , 2012, , .		1
53	Monitoring of a pharmaceutical blending process using near infrared chemical imaging. <i>Vibrational Spectroscopy</i> , 2012, 63, 371-379.	2.2	19
54	Development and Validation of a Portable AOTF-NIR Measurement Method for the Determination of Baicalin in Yin Huang Oral Solution. , 2012, , .		1

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55	Development and validation of NIR model using low-concentration calibration range: rapid analysis of <i>Lonicera japonica</i> solution in ethanol precipitation process. <i>Analytical Methods</i> , 2012, 4, 1084.	2.7	18
56	Feasibility Analysis of Lower Limit of Quantification of NIR for Solvent in Different Hydrogen Bonds Environment Using Multivariate Calibrations. , 2012, , .		0
57	NIR analysis for batch process of ethanol precipitation coupled with a new calibration model updating strategy. <i>Analytica Chimica Acta</i> , 2012, 720, 22-28.	5.4	64
58	Visualizing excipient composition and homogeneity of Compound Liquorice Tablets by near-infrared chemical imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 631-636.	3.9	20
59	Validation of a NIR quantification method for the determination of chlorogenic acid in <i>Lonicera japonica</i> solution in ethanol precipitation process. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 62, 1-6.	2.8	53
60	Absorption characteristics and quantitative contribution of overtones and combination of NIR: Method development and validation. <i>Journal of Molecular Structure</i> , 2012, 1019, 97-102.	3.6	12
61	Hepatoprotective effects of <i>Rubus aleaefolius</i> Poir. and identification of its active constituents. <i>Journal of Ethnopharmacology</i> , 2010, 129, 267-272.	4.1	11
62	LC-MS ² in MRM Mode for Detection and Structural Identification of Synthetic Hypoglycemic Drugs Added Illegally to "Natural" Anti-Diabetic Herbal Products. <i>Chromatographia</i> , 2009, 70, 1353-1359.	1.3	38
63	A promising approach for understanding the mechanism of Traditional Chinese Medicine by the aggregation morphology. <i>Journal of Ethnopharmacology</i> , 2009, 123, 267-274.	4.1	26
64	Performance evaluation of variable selection methods coupled with partial least squares regression to determine the target component in solid samples. <i>Journal of Near Infrared Spectroscopy</i> , 0, , 096703352210972.	1.5	0