

Zhi-Min Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,551
citations

567247

15
h-index

477281

29
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29
all docs

29
docs citations

29
times ranked

1745
citing authors

#	ARTICLE	IF	CITATIONS
1	Baseline correction using adaptive iteratively reweighted penalized least squares. <i>Analyst, The</i> , 2010, 135, 1138.	3.5	752
2	An intelligent background correction algorithm for highly fluorescent samples in Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 659-669.	2.5	241
3	Peak alignment using wavelet pattern matching and differential evolution. <i>Talanta</i> , 2011, 83, 1108-1117.	5.5	65
4	Multiscale peak detection in wavelet space. <i>Analyst, The</i> , 2015, 140, 7955-7964.	3.5	65
5	Calibration transfer via an extreme learning machine auto-encoder. <i>Analyst, The</i> , 2016, 141, 1973-1980.	3.5	55
6	Multiscale peak alignment for chromatographic datasets. <i>Journal of Chromatography A</i> , 2012, 1223, 93-106.	3.7	50
7	Comparisons of Five Algorithms for Chromatogram Alignment. <i>Chromatographia</i> , 2013, 76, 1067-1078.	1.3	38
8	Representative subset selection and outlier detection via isolation forest. <i>Analytical Methods</i> , 2016, 8, 7225-7231.	2.7	33
9	In situ fabrication of label-free optical sensing paper strips for the rapid surface-enhanced Raman scattering (SERS) detection of brassinosteroids in plant tissues. <i>Talanta</i> , 2017, 165, 313-320.	5.5	25
10	KPIC2: An Effective Framework for Mass Spectrometry-Based Metabolomics Using Pure Ion Chromatograms. <i>Analytical Chemistry</i> , 2017, 89, 7631-7640.	6.5	25
11	Sensitive surface enhanced Raman spectroscopy (SERS) detection of methotrexate by core-shell-satellite magnetic microspheres. <i>Talanta</i> , 2017, 171, 152-158.	5.5	21
12	A modified multiscale peak alignment method combined with trilinear decomposition to study the volatile/heat-labile components in <i>Ligusticum chuanxiong</i> Hort - <i>Cyperus rotundus</i> rhizomes by HS-SPME-GC/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1079, 41-50.	2.3	20
13	Automatic standardization method for Raman spectrometers with applications to pharmaceuticals. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 147-154.	2.5	18
14	Comments on the Baseline Removal Method Based on Quantile Regression and Comparison of Several Methods. <i>Chromatographia</i> , 2012, 75, 313-314.	1.3	16
15	Recursive Wavelet Peak Detection of Analytical Signals. <i>Chromatographia</i> , 2016, 79, 1247-1255.	1.3	15
16	Simultaneous determination of neutral and uronic sugars based on UV-vis spectrometry combined with PLS. <i>International Journal of Biological Macromolecules</i> , 2016, 87, 290-294.	7.5	15
17	Fast and Low-Cost Surface-Enhanced Raman Scattering (SERS) Method for On-Site Detection of Flumetsulam in Wheat. <i>Molecules</i> , 2020, 25, 4662.	3.8	15
18	Developing a Peak Extraction and Retention (PEER) Algorithm for Improving the Temporal Resolution of Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 8408-8413.	6.5	13

#	ARTICLE	IF	CITATIONS
19	Pure ion chromatogram extraction via optimal k-means clustering. RSC Advances, 2016, 6, 56977-56985.	3.6	10
20	Fast pure ion chromatograms extraction method for LC-MS. Chemometrics and Intelligent Laboratory Systems, 2017, 170, 68-74.	3.5	10
21	Application of Subwindow Factor Analysis and Mass Spectral information for accurate alignment of non-targeted metabolic profiling. Journal of Chromatography A, 2018, 1563, 162-170.	3.7	10
22	Deep Learning-Based Method for Compound Identification in NMR Spectra of Mixtures. Molecules, 2022, 27, 3653.	3.8	10
23	Mixture analysis using non-negative elastic net for Raman spectroscopy. Journal of Chemometrics, 2020, 34, e3293.	1.3	8
24	Feature Extraction for LC-MS via Hierarchical Density Clustering. Chromatographia, 2019, 82, 1449-1457.	1.3	6
25	Shrunken centroids regularized discriminant analysis as a promising strategy for metabolomics data exploration. Journal of Chemometrics, 2015, 29, 154-164.	1.3	5
26	Eliminating Non-linear Raman Shift Displacement Between Spectrometers via Moving Window Fast Fourier Transform Cross-Correlation. Frontiers in Chemistry, 2018, 6, 515.	3.6	5
27	Pure Ion Chromatograms Combined with Advanced Machine Learning Methods Improve Accuracy of Discriminant Models in LC-MS-Based Untargeted Metabolomics. Molecules, 2021, 26, 2715.	3.8	2
28	Chromatographic Profiling with Machine Learning Discriminates the Maturity Grades of Nicotiana tabacum L. Leaves. Separations, 2021, 8, 9.	2.4	2
29	A novel storage method for near infrared spectroscopy chemometric models. Analytica Chimica Acta, 2010, 668, 149-154.	5.4	1