

Yi-Zeng Liang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126
papers

5,119
citations

38
h-index

69
g-index

129
ext. papers

5,814
ext. citations

3.5
avg, IF

5.61
L-index

#	Paper	IF	Citations
126	libPLS: An integrated library for partial least squares regression and linear discriminant analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018 , 176, 34-43	3.8	109
125	Incorporating variable importance into kernel PLS for modeling the structure-activity relationship. <i>Journal of Mathematical Chemistry</i> , 2018 , 56, 713-727	2.1	5
124	Elastic net wavelength interval selection based on iterative rank PLS regression coefficient screening. <i>Analytical Methods</i> , 2017 , 9, 672-679	3.2	8
123	Semiautomated Alignment of High-Throughput Metabolite Profiles with Chemometric Tools. <i>Journal of Analytical Methods in Chemistry</i> , 2017 , 2017, 9402045	2	1
122	Calibration transfer via an extreme learning machine auto-encoder. <i>Analyst, The</i> , 2016 , 141, 1973-80	5	40
121	Chemometrics applied to quality control and metabolomics for traditional Chinese medicines. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1015-1016, 82-91	3.2	47
120	Simultaneous separation and determination of four main isoflavonoids in Astragali Radix by an isocratic LC/ESI-MS method. <i>Journal of Central South University</i> , 2016 , 23, 303-309	2.1	3
119	Simultaneous determination of neutral and uronic sugars based on UV-vis spectrometry combined with PLS. <i>International Journal of Biological Macromolecules</i> , 2016 , 87, 290-4	7.9	11
118	Variable importance analysis based on rank aggregation with applications in metabolomics for biomarker discovery. <i>Analytica Chimica Acta</i> , 2016 , 911, 27-34	6.6	15
117	A bootstrapping soft shrinkage approach for variable selection in chemical modeling. <i>Analytica Chimica Acta</i> , 2016 , 908, 63-74	6.6	83
116	A modified random forest approach to improve multi-class classification performance of tobacco leaf grades coupled with NIR spectroscopy. <i>RSC Advances</i> , 2016 , 6, 30353-30361	3.7	27
115	Representative subset selection and outlier detection via isolation forest. <i>Analytical Methods</i> , 2016 , 8, 7225-7231	3.2	22
114	A new method for wavelength interval selection that intelligently optimizes the locations, widths and combinations of the intervals. <i>Analyst, The</i> , 2015 , 140, 1876-85	5	74
113	Purification, partial characterization and antioxidant activity of polysaccharides from <i>Glycyrrhiza uralensis</i> . <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 681-6	7.9	54
112	Systematic and practical solvent system selection strategy based on the nonrandom two-liquid segment activity coefficient model for real-life counter-current chromatography separation. <i>Journal of Chromatography A</i> , 2015 , 1393, 47-56	4.5	9
111	Sparse canonical correlation analysis applied to -omics studies for integrative analysis and biomarker discovery. <i>Journal of Chemometrics</i> , 2015 , 29, 371-378	1.6	5
110	Application of GC-MS coupled with chemometrics for scanning serum metabolic biomarkers from renal fibrosis rat. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 461, 186-92	3.4	2

109	Informative metabolites identification by variable importance analysis based on random variable combination. <i>Metabolomics</i> , 2015 , 11, 1539-1551	4.7	27
108	A new strategy to prevent over-fitting in partial least squares models based on model population analysis. <i>Analytica Chimica Acta</i> , 2015 , 880, 32-41	6.6	48
107	Multiscale peak detection in wavelet space. <i>Analyst, The</i> , 2015 , 140, 7955-64	5	38
106	Model population analysis in chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015 , 149, 166-176	3.8	33
105	Retention Indices for Identification of Aroma Compounds by GC: Development and Application of a Retention Index Database. <i>Chromatographia</i> , 2015 , 78, 89-108	2.1	5
104	Shrunken centroids regularized discriminant analysis as a promising strategy for metabolomics data exploration. <i>Journal of Chemometrics</i> , 2015 , 29, 154-164	1.6	2
103	In silico evaluation of logD7.4 and comparison with other prediction methods. <i>Journal of Chemometrics</i> , 2015 , 29, 389-398	1.6	23
102	A green method for the quantification of polysaccharides in <i>Dendrobium officinale</i> . <i>RSC Advances</i> , 2015 , 5, 105057-105065	3.7	12
101	Using variable combination population analysis for variable selection in multivariate calibration. <i>Analytica Chimica Acta</i> , 2015 , 862, 14-23	6.6	103
100	Automatic standardization method for Raman spectrometers with applications to pharmaceuticals. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 147-154	2.3	15
99	A novel strategy for quantitative analysis of the formulated complex system using chromatographic fingerprints combined with some chemometric techniques. <i>Journal of Chromatography A</i> , 2014 , 1370, 179-86	4.5	9
98	Kernel k-nearest neighbor classifier based on decision tree ensemble for SAR modeling analysis. <i>Analytical Methods</i> , 2014 , 6, 6621	3.2	1
97	A novel variable selection approach that iteratively optimizes variable space using weighted binary matrix sampling. <i>Analyst, The</i> , 2014 , 139, 4836-45	5	96
96	Exploring metabolic syndrome serum profiling based on gas chromatography mass spectrometry and random forest models. <i>Analytica Chimica Acta</i> , 2014 , 827, 22-7	6.6	46
95	A simple idea on applying large regression coefficient to improve the genetic algorithm-PLS for variable selection in multivariate calibration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 130, 76-83	3.8	36
94	Mixture analysis using reverse searching and non-negative least squares. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 137, 10-20	3.8	10
93	Using nonrandom two-liquid model for solvent system selection in counter-current chromatography. <i>Journal of Chromatography A</i> , 2014 , 1355, 80-5	4.5	12
92	A Combinational Strategy of Model Disturbance and Outlier Comparison to Define Applicability Domain in Quantitative Structural Activity Relationship. <i>Molecular Informatics</i> , 2014 , 33, 503-13	3.8	11

91	A strategy that iteratively retains informative variables for selecting optimal variable subset in multivariate calibration. <i>Analytica Chimica Acta</i> , 2014 , 807, 36-43	6.6	116
90	Comparisons of Five Algorithms for Chromatogram Alignment. <i>Chromatographia</i> , 2013 , 76, 1067-1078	2.1	31
89	Trace amounts of impurities in electrolytic manganese metal by sector field inductively coupled plasma mass spectrometry. <i>Journal of Central South University</i> , 2013 , 20, 3385-3390	2.1	2
88	Prediction of retention indices for frequently reported compounds of plant essential oils using multiple linear regression, partial least squares, and support vector machine. <i>Journal of Separation Science</i> , 2013 , 36, 2464-71	3.4	14
87	QSRR Study on Flavor Compounds of Diverse Structures on Different Columns with the Help of New Chemometric Methods. <i>Chromatographia</i> , 2013 , 76, 241-253	2.1	3
86	Interpretation of type 2 diabetes mellitus relevant GC-MS metabolomics fingerprints by using random forests. <i>Analytical Methods</i> , 2013 , 5, 4883-4889	3.2	12
85	Morphological weighted penalized least squares for background correction. <i>Analyst, The</i> , 2013 , 138, 4483-92	5	55
84	Application of fast Fourier transform cross-correlation and mass spectrometry data for accurate alignment of chromatograms. <i>Journal of Chromatography A</i> , 2013 , 1286, 175-82	4.5	25
83	An efficient method of wavelength interval selection based on random frog for multivariate spectral calibration. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 111, 31-6	4.4	106
82	A novel tree kernel partial least squares for modeling the structure-activity relationship. <i>Journal of Chemometrics</i> , 2013 , 27, 43-49	1.6	2
81	Simultaneous determination mercury species of Su-He-Xiang-Wan in rat tissues by HPLC-CVG-AFS. <i>Journal of Central South University</i> , 2013 , 20, 894-901	2.1	2
80	Chemical fingerprinting of Su-He-Xiang-Wan and attribution of major characteristic peaks for its quality control by GC-MS. <i>Journal of Central South University</i> , 2013 , 20, 2115-2123	2.1	3
79	Nonlinear alignment of chromatograms by means of moving window fast Fourier transform cross-correlation. <i>Journal of Separation Science</i> , 2013 , 36, 1677-84	3.4	10
78	Comparative Analysis of the Volatile Components of Agrimonia eupatoria from Leaves and Roots by Gas Chromatography-Mass Spectrometry and Multivariate Curve Resolution. <i>Journal of Analytical Methods in Chemistry</i> , 2013 , 2013, 246986	2	6
77	CHROMATOGRAPHIC FINGERPRINTS OF SEED EMBRYO OF NELUMBO NUCIFERA GAERTN BY REVERSED-PHASE AND HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2012 , 35, 621-633	1.3	2
76	Chromatographic fingerprint of Semen Armeniacae Amarae based on high-performance liquid chromatogram and chemometric methods. <i>Analytical Methods</i> , 2012 , 4, 299-308	3.2	7
75	Random frog: an efficient reversible jump Markov Chain Monte Carlo-like approach for variable selection with applications to gene selection and disease classification. <i>Analytica Chimica Acta</i> , 2012 , 740, 20-6	6.6	149
74	Determination of trace elements in high purity nickel by high resolution inductively coupled plasma mass spectrometry. <i>Journal of Central South University</i> , 2012 , 19, 2416-2420	2.1	6

73	Variable complementary network: a novel approach for identifying biomarkers and their mutual associations. <i>Metabolomics</i> , 2012 , 8, 1218-1226	4.7	7
72	Comments on the Baseline Removal Method Based on Quantile Regression and Comparison of Several Methods. <i>Chromatographia</i> , 2012 , 75, 313-314	2.1	16
71	Multiscale peak alignment for chromatographic datasets. <i>Journal of Chromatography A</i> , 2012 , 1223, 93-106	4.9	46
70	Peak alignment using wavelet pattern matching and differential evolution. <i>Talanta</i> , 2011 , 83, 1108-17	6.2	63
69	Development of the chromatographic fingerprint of <i>Scutellaria barbata</i> D. Don by GC-MS combined with Chemometrics methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 55, 391-6	3.5	34
68	Chromatographic fingerprint analysis of <i>Fructus Aurantii Immaturus</i> by HPLC-DAD and chemometric methods. <i>Journal of Central South University</i> , 2011 , 18, 353-360	2.1	7
67	Stability, detonation properties and pyrolysis mechanisms of polynitrotriprismanes $C_6H_6N(NO_2)_n$ ($n=1-8$). <i>Journal of Central South University</i> , 2011 , 18, 1395-1401	2.1	3
66	Recipe for uncovering predictive genes using support vector machines based on model population analysis. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011 , 8, 1633-41	3	37
65	Baseline correction using adaptive iteratively reweighted penalized least squares. <i>Analyst, The</i> , 2010 , 135, 1138-46	5	463
64	Chromatographic fingerprinting and metabolomics for quality control of TCM. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010 , 13, 943-53	1.3	21
63	Recipe for revealing informative metabolites based on model population analysis. <i>Metabolomics</i> , 2010 , 6, 353-361	4.7	58
62	Chemical composition and inhibitory effect on hepatic fibrosis of Danggui Buxue Decoction. <i>Phytotherapy</i> , 2010 , 81, 793-8	3.2	26
61	Model population analysis for variable selection. <i>Journal of Chemometrics</i> , 2010 , 24, 418-423	1.6	94
60	An intelligent background-correction algorithm for highly fluorescent samples in Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 659-669	2.3	193
59	Interpretation of the characteristic fragmentation mechanisms through determining the initial ionization site by natural spin density: A study on the derivatives of tryptophan and tryptamine. <i>International Journal of Mass Spectrometry</i> , 2009 , 286, 112-121	1.9	10
58	Comparative analysis of chemical components between barks and leaves of <i>Eucommia ulmoides</i> Oliver. <i>Central South University</i> , 2009 , 16, 371-379		5
57	Essential Oil Composition of <i>Osmanthus fragrans</i> Varieties by GC-MS and Heuristic Evolving Latent Projections. <i>Chromatographia</i> , 2009 , 70, 1163-1169	2.1	17
56	Comparative analysis of essential components between the herbal pair - and its single herbs by GC-MS combined with a chemometric resolution method. <i>Analytical Methods</i> , 2009 , 1, 45-51	3.2	8

55	Optimization of Liensinine, Isoliensinine and Neferine Extraction from the Embryo of the Seed of <i>Nelumbo nucifera</i> GAERTN. <i>Separation Science and Technology</i> , 2008 , 43, 3637-3651	2.5	4
54	Relationship between initial efficiency and structure parameters of carbon anode material for Li-ion battery. <i>Central South University</i> , 2008 , 15, 484-487		0
53	Analysis of volatile components in herbal pair herba schizonepetae-ramulus cinnamomi. <i>Central South University</i> , 2008 , 15, 791-795		3
52	Traditional Chinese medicine and separation science. <i>Journal of Separation Science</i> , 2008 , 31, 2113-37	3.4	105
51	UPLC-MS/MS Analysis of Baicalin in the Cerebrospinal Fluid of Rabbits: Application to a Pharmacokinetic Study. <i>Chromatographia</i> , 2008 , 68, 463-466	2.1	4
50	Empirical Kriging models and their applications to QSAR. <i>Journal of Chemometrics</i> , 2007 , 21, 43-52	1.6	3
49	Quality control and discrimination of pericarpium citri reticulatae and pericarpium citri reticulatae viride based on high-performance liquid chromatographic fingerprints and multivariate statistical analysis. <i>Analytica Chimica Acta</i> , 2007 , 588, 207-15	6.6	94
48	Fingerprint developing of coffee flavor by gas chromatography-mass spectrometry and combined chemometrics methods. <i>Analytica Chimica Acta</i> , 2007 , 588, 216-23	6.6	41
47	Mass spectral profiling: an effective tool for quality control of herbal medicines. <i>Analytica Chimica Acta</i> , 2007 , 604, 89-98	6.6	37
46	High-performance liquid chromatography with atmospheric pressure chemical ionization and electrospray ionization mass spectrometry for analysis of <i>Angelica sinensis</i> . <i>Phytochemical Analysis</i> , 2007 , 18, 265-74	3.4	31
45	Simultaneous Determination of Enalapril and Enalaprilat in Human Plasma by LC-MS: Application to a Bioequivalence Study. <i>Chromatographia</i> , 2007 , 65, 209-215	2.1	13
44	Development and Validation of LC-MS Method for the Determination of Hydroxyzine Hydrochloride in Human Plasma and Subsequent Application in a Bioequivalence Study. <i>Chromatographia</i> , 2007 , 66, 481-486	2.1	7
43	Analysis of volatile chemical components of <i>Radix Paeoniae Rubra</i> by gas chromatography-mass spectrometry and chemometric resolution. <i>Central South University</i> , 2007 , 14, 57-61		8
42	Microwave digestion polarography for determining seven trace elements in <i>Salvia Miltiorrhiza</i> Root and compound <i>Salvia Miltiorrhiza</i> Root injection simultaneously. <i>Central South University</i> , 2007 , 14, 514-519		5
41	Orthogonal projection (OP) technique applied to pattern recognition of fingerprints of the herbal medicine <i>Houttuynia cordata</i> Thunb. and its final injection products. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 392-400	4.4	23
40	Optimization of extraction and determination of emodin from <i>Polygonum cuspidatum</i> Sieb. et Zucc. products by HPLC-DAD. <i>Central South University</i> , 2006 , 13, 658-662		2
39	Modified secured principal component regression for detection of unexpected chromatographic features in herbal fingerprints. <i>Analyst, The</i> , 2006 , 131, 538-46	5	8
38	Tentative fingerprint-efficacy study of <i>Houttuynia cordata</i> injection in quality control of traditional Chinese medicine. <i>Chemical and Pharmaceutical Bulletin</i> , 2006 , 54, 725-30	1.9	16

37	Variable selection for discriminating herbal medicines with chromatographic fingerprints. <i>Analytica Chimica Acta</i> , 2006 , 572, 265-71	6.6	25
36	Study on absorption of Angelica sinensis in rabbit plasma by HPLC-DAD-MS and multicomponent spectral correlative chromatography. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 82, 229-233 ⁸	3.8	13
35	Alternative moving window factor analysis for comparison analysis between complex chromatographic data. <i>Journal of Chromatography A</i> , 2006 , 1107, 273-85	4.5	49
34	Chromatographic fingerprint analysis--a rational approach for quality assessment of traditional Chinese herbal medicine. <i>Journal of Chromatography A</i> , 2006 , 1112, 171-80	4.5	34 ⁸
33	Pretreatments of chromatographic fingerprints for quality control of herbal medicines. <i>Journal of Chromatography A</i> , 2006 , 1134, 253-9	4.5	98
32	Development of high-performance liquid chromatographic fingerprints for distinguishing Chinese Angelica from related umbelliferae herbs. <i>Journal of Chromatography A</i> , 2005 , 1073, 383-92	4.5	15 ⁸
31	Comparing chemical fingerprints of herbal medicines using modified window target-testing factor analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 913-24	4.4	14
30	LC-DAD-APCI-MS-based screening and analysis of the absorption and metabolite components in plasma from a rabbit administered an oral solution of danggui. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 383, 247-54	4.4	39
29	Systematically structural identification of nitric compounds in crude oil with chemometric resolution. <i>Central South University</i> , 2005 , 12, 300-305		
28	Determination of constituents of essential oil from Angelica sinensis by gas chromatography □ mass spectrometry. <i>Central South University</i> , 2005 , 12, 430-436		14
27	A multi-sequential number-theoretic optimization algorithm using clustering methods. <i>Central South University</i> , 2005 , 12, 283-293		0
26	Structural features hidden in the degree distributions of topological graphs. <i>Journal of Mathematical Chemistry</i> , 2005 , 37, 37-56	2.1	
25	Simultaneous determination of adenine, uridine and adenosine in cordyceps sinensis and its substitutes by LC/ESI-MS. <i>Central South University</i> , 2004 , 11, 295-299		8
24	Monte Carlo cross-validation for selecting a model and estimating the prediction error in multivariate calibration. <i>Journal of Chemometrics</i> , 2004 , 18, 112-120	1.6	174
23	Correction of retention time shifts for chromatographic fingerprints of herbal medicines. <i>Journal of Chromatography A</i> , 2004 , 1029, 173-83	4.5	107
22	Quality evaluation of fingerprints of herbal medicine with chromatographic data. <i>Analytica Chimica Acta</i> , 2004 , 514, 69-77	6.6	59
21	Quality control of herbal medicines. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 812, 53-70	3.2	261
20	Resolution and identification of the acidic fraction of a petroleum ether extract of Radix Rehmanniae Preparata by an evolving chemometric approach. <i>Chromatographia</i> , 2003 , 57, 235-243	2.1	8

19	Information theory applied to chromatographic fingerprint of herbal medicine for quality control. <i>Journal of Chromatography A</i> , 2003 , 1002, 25-40	4.5	204
18	Direct rapid determination of traces of sulfide in environment samples. <i>Central South University</i> , 2002 , 9, 250-254		
17	RAPID AND SIMULTANEOUS DETERMINATION OF COPPER, CADMIUM, NICKEL, AND COBALT IN ZINC ELECTROLYTE SOLUTIONS BY COMPLEX ADSORPTION WAVE POLAROGRAPHY. <i>Instrumentation Science and Technology</i> , 2002 , 20, 1-14		20
16	Library search of mass spectra with a new matching algorithm based on substructure similarity. <i>Analytical Sciences</i> , 2001 , 17, 635-8	1.7	10
15	Resolution of the essential constituents of <i>Ramulus cinnamomi</i> by an evolving chemometric approach. <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 371, 331-6		14
14	Generalized PLS regression. <i>Journal of Chemometrics</i> , 2001 , 15, 135-148	1.6	44
13	Evaluation of separation quality in two-dimensional hyphenated chromatography. <i>Analytica Chimica Acta</i> , 2001 , 450, 99-114	6.6	17
12	Gas chromatography-mass spectrometry and chemometric resolution applied to the determination of essential oils in <i>Cortex cinnamomi</i> . <i>Journal of Chromatography A</i> , 2001 , 905, 193-205	4.5	78
11	Determination of volatile components in peptic powder by gas chromatography-mass spectrometry and chemometric resolution. <i>Journal of Chromatography A</i> , 2001 , 909, 237-47	4.5	96
10	Two novel procedures for automatic resolution of two-way data from coupled chromatography. <i>Analyst, The</i> , 2001 , 126, 161-8	5	9
9	A Novel Approach to the Retrieval of the Mass Spectrum of a Mixture.. <i>Analytical Sciences</i> , 2000 , 16, 603-607	1.7	5
8	Analysis of the Water Soluble Constituents of <i>Cordyceps Sinensis</i> With Heuristic Evolving Latent Projections. <i>Analytical Letters</i> , 2000 , 33, 3195-3211	2.2	10
7	Determination of the number of components in mixtures using a new approach incorporating chemical information. <i>Journal of Chemometrics</i> , 1999 , 13, 15-30	1.6	38
6	A roughness penalty approach and its application to noisy hyphenated chromatographic two-way data. <i>Journal of Chemometrics</i> , 1999 , 13, 511-524	1.6	11
5	Chemical rank estimation for excitation-emission matrices using a morphological approach. <i>Journal of Chemometrics</i> , 1998 , 12, 95-104	1.6	12
4	Sequential number-theoretic optimization (SNT0) method applied to chemical quantitative analysis. <i>Journal of Chemometrics</i> , 1997 , 11, 267-281	1.6	12
3	Two new algorithms for resolution of two-way data. <i>Journal of Chemometrics</i> , 1996 , 10, 63-76	1.6	3
2	A non-linear mapping-based generalized backpropagation network for unsupervised learning. <i>Journal of Chemometrics</i> , 1996 , 10, 241-252	1.6	17

- 1 Robust principal component analysis by projection pursuit. *Journal of Chemometrics*, **1993**, 7, 527-541 1.6 36