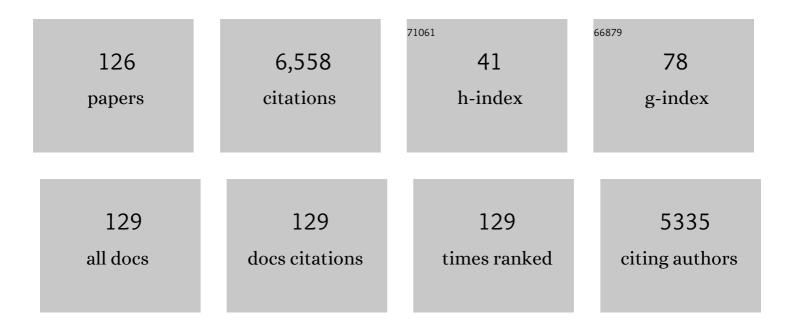
## **Yi-Zeng Liang**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Baseline correction using adaptive iteratively reweighted penalized least squares. Analyst, The, 2010, 135, 1138.	1.7	752
2	Chromatographic fingerprint analysis—a rational approach for quality assessment of traditional Chinese herbal medicine. Journal of Chromatography A, 2006, 1112, 171-180.	1.8	413
3	Quality control of herbal medicines. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 812, 53-70.	1.2	354
4	An intelligent backgroundâ€correction algorithm for highly fluorescent samples in Raman spectroscopy. Journal of Raman Spectroscopy, 2010, 41, 659-669.	1.2	241
5	Information theory applied to chromatographic fingerprint of herbal medicine for quality control. Journal of Chromatography A, 2003, 1002, 25-40.	1.8	216
6	Random frog: An efficient reversible jump Markov Chain Monte Carlo-like approach for variable selection with applications to gene selection and disease classification. Analytica Chimica Acta, 2012, 740, 20-26.	2.6	209
7	Monte Carlo cross-validation for selecting a model and estimating the prediction error in multivariate calibration. Journal of Chemometrics, 2004, 18, 112-120.	0.7	197
8	A strategy that iteratively retains informative variables for selecting optimal variable subset in multivariate calibration. Analytica Chimica Acta, 2014, 807, 36-43.	2.6	177
9	Development of high-performance liquid chromatographic fingerprints for distinguishing Chinese Angelica from related umbelliferae herbs. Journal of Chromatography A, 2005, 1073, 383-392.	1.8	170
10	libPLS: An integrated library for partial least squares regression and linear discriminant analysis. Chemometrics and Intelligent Laboratory Systems, 2018, 176, 34-43.	1.8	164
11	Using variable combination population analysis for variable selection in multivariate calibration. Analytica Chimica Acta, 2015, 862, 14-23.	2.6	158
12	An efficient method of wavelength interval selection based on random frog for multivariate spectral calibration. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 111, 31-36.	2.0	150
13	A bootstrapping soft shrinkage approach for variable selection in chemical modeling. Analytica Chimica Acta, 2016, 908, 63-74.	2.6	142
14	A novel variable selection approach that iteratively optimizes variable space using weighted binary matrix sampling. Analyst, The, 2014, 139, 4836.	1.7	127
15	Correction of retention time shifts for chromatographic fingerprints of herbal medicines. Journal of Chromatography A, 2004, 1029, 173-183.	1.8	118
16	Traditional Chinese medicine and separation science. Journal of Separation Science, 2008, 31, 2113-2137.	1.3	117
17	Pretreatments of chromatographic fingerprints for quality control of herbal medicines. Journal of Chromatography A, 2006, 1134, 253-259.	1.8	111
18	Model population analysis for variable selection. Journal of Chemometrics, 2010, 24, 418-423.	0.7	110

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19	Determination of volatile components in peptic powder by gas chromatography–mass spectrometry and chemometric resolution. Journal of Chromatography A, 2001, 909, 237-247.	1.8	105
20	Quality control and discrimination of Pericarpium Citri Reticulatae and Pericarpium Citri Reticulatae Viride based on high-performance liquid chromatographic fingerprints and multivariate statistical analysis. Analytica Chimica Acta, 2007, 588, 207-215.	2.6	102
21	A new method for wavelength interval selection that intelligently optimizes the locations, widths and combinations of the intervals. Analyst, The, 2015, 140, 1876-1885.	1.7	97
22	Gas chromatography–mass spectrometry and chemometric resolution applied to the determination of essential oils in Cortex Cinnamomi. Journal of Chromatography A, 2001, 905, 193-205.	1.8	90
23	Recipe for revealing informative metabolites based on model population analysis. Metabolomics, 2010, 6, 353-361.	1.4	74
24	Purification, partial characterization and antioxidant activity of polysaccharides from Glycyrrhiza uralensis. International Journal of Biological Macromolecules, 2015, 79, 681-686.	3.6	73
25	Quality evaluation of fingerprints of herbal medicine with chromatographic data. Analytica Chimica Acta, 2004, 514, 69-77.	2.6	70
26	Morphological weighted penalized least squares for background correction. Analyst, The, 2013, 138, 4483.	1.7	70
27	Peak alignment using wavelet pattern matching and differential evolution. Talanta, 2011, 83, 1108-1117.	2.9	65
28	Multiscale peak detection in wavelet space. Analyst, The, 2015, 140, 7955-7964.	1.7	65
29	A new strategy to prevent over-fitting in partial least squares models based on model population analysis. Analytica Chimica Acta, 2015, 880, 32-41.	2.6	63
30	Exploring metabolic syndrome serum profiling based on gas chromatography mass spectrometry and random forest models. Analytica Chimica Acta, 2014, 827, 22-27.	2.6	61
31	Chemometrics applied to quality control and metabolomics for traditional Chinese medicines. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1015-1016, 82-91.	1.2	58
32	Calibration transfer via an extreme learning machine auto-encoder. Analyst, The, 2016, 141, 1973-1980.	1.7	55
33	Generalized PLS regression. Journal of Chemometrics, 2001, 15, 135-148.	0.7	53
34	Alternative moving window factor analysis for comparison analysis between complex chromatographic data. Journal of Chromatography A, 2006, 1107, 273-285.	1.8	50
35	Fingerprint developing of coffee flavor by gas chromatography–mass spectrometry and combined chemometrics methods. Analytica Chimica Acta, 2007, 588, 216-223.	2.6	50
36	Multiscale peak alignment for chromatographic datasets. Journal of Chromatography A, 2012, 1223, 93-106.	1.8	50

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37	Robust principal component analysis by projection pursuit. Journal of Chemometrics, 1993, 7, 527-541.	0.7	49
38	Recipe for uncovering predictive genes using support vector machines based on model population analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 1633-1641.	1.9	49
39	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. Analytical and Bioanalytical Chemistry, 2005, 383, 247-254.	1.9	44
40	A simple idea on applying large regression coefficient to improve the genetic algorithm-PLS for variable selection in multivariate calibration. Chemometrics and Intelligent Laboratory Systems, 2014, 130, 76-83.	1.8	44
41	Mass spectral profiling: An effective tool for quality control of herbal medicines. Analytica Chimica Acta, 2007, 604, 89-98.	2.6	43
42	Informative metabolites identification by variable importance analysis based on random variable combination. Metabolomics, 2015, 11, 1539-1551.	1.4	41
43	Determination of the number of components in mixtures using a new approach incorporating chemical information. Journal of Chemometrics, 1999, 13, 15-30.	0.7	39
44	Development of the chromatographic ï¬ngerprint of Scutellaria barbata D. Don by GC–MS combined with Chemometrics methods. Journal of Pharmaceutical and Biomedical Analysis, 2011, 55, 391-396.	1.4	39
45	Comparisons of Five Algorithms for Chromatogram Alignment. Chromatographia, 2013, 76, 1067-1078.	0.7	38
46	Model population analysis in chemometrics. Chemometrics and Intelligent Laboratory Systems, 2015, 149, 166-176.	1.8	37
47	Chromatographic Fingerprinting and Metabolomics for Quality Control of TCM. Combinatorial Chemistry and High Throughput Screening, 2010, 13, 943-953.	0.6	36
48	A modified random forest approach to improve multi-class classification performance of tobacco leaf grades coupled with NIR spectroscopy. RSC Advances, 2016, 6, 30353-30361.	1.7	35
49	High-performance liquid chromatography with atmospheric pressure chemical ionization and electrospray ionization mass spectrometry for analysis ofAngelica sinensis. Phytochemical Analysis, 2007, 18, 265-274.	1.2	34
50	Chemical composition and inhibitory effect on hepatic fibrosis of Danggui Buxue Decoction. FìtoterapìÁ¢, 2010, 81, 793-798.	1.1	34
51	Representative subset selection and outlier detection via isolation forest. Analytical Methods, 2016, 8, 7225-7231.	1.3	33
52	<i>In silico</i> evaluation of logD <sub>7.4</sub> and comparison with other prediction methods. Journal of Chemometrics, 2015, 29, 389-398.	0.7	30
53	Variable selection for discriminating herbal medicines with chromatographic fingerprints. Analytica Chimica Acta, 2006, 572, 265-271.	2.6	29
54	Application of fast Fourier transform cross-correlation and mass spectrometry data for accurate alignment of chromatograms. Journal of Chromatography A, 2013, 1286, 175-182.	1.8	26

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55	Orthogonal projection (OP) technique applied to pattern recognition of fingerprints of the herbal medicine houttuynia cordata Thunb. and its final injection products. Analytical and Bioanalytical Chemistry, 2006, 385, 392-400.	1.9	23
56	RAPID AND SIMULTANEOUS DETERMINATION OF COPPER, CADMIUM, NICKEL, AND COBALT IN ZINC ELECTROLYTE SOLUTIONS BY COMPLEX ADSORPTION WAVE POLAROGRAPHY. Instrumentation Science and Technology, 2002, 20, 1-14.	0.8	21
57	Essential Oil Composition of Osmanthus fragrans Varieties by GC-MS and Heuristic Evolving Latent Projections. Chromatographia, 2009, 70, 1163-1169.	0.7	21
58	Prediction of retention indices for frequently reported compounds of plant essential oils using multiple linear regression, partial least squares, and support vector machine. Journal of Separation Science, 2013, 36, 2464-2471.	1.3	21
59	Variable importance analysis based on rank aggregation with applications in metabolomics for biomarker discovery. Analytica Chimica Acta, 2016, 911, 27-34.	2.6	20
60	A non-linear mapping-based generalized backpropagation network for unsupervised learning. Journal of Chemometrics, 1996, 10, 241-252.	0.7	19
61	Tentative Fingerprint-Efficacy Study of Houttuynia cordata Injection in Quality Control of Traditional Chinese Medicine. Chemical and Pharmaceutical Bulletin, 2006, 54, 725-730.	0.6	19
62	Resolution of the essential constituents of Ramulus cinnamomi by an evolving chemometric approach. Fresenius' Journal of Analytical Chemistry, 2001, 371, 331-336.	1.5	18
63	Evaluation of separation quality in two-dimensional hyphenated chromatography. Analytica Chimica Acta, 2001, 450, 99-114.	2.6	18
64	A Combinational Strategy of Model Disturbance and Outlier Comparison to Define Applicability Domain in Quantitative Structural Activity Relationship. Molecular Informatics, 2014, 33, 503-513.	1.4	18
65	Automatic standardization method for Raman spectrometers with applications to pharmaceuticals. Journal of Raman Spectroscopy, 2015, 46, 147-154.	1.2	18
66	Comparing chemical fingerprints of herbal medicines using modified window target-testing factor analysis. Analytical and Bioanalytical Chemistry, 2005, 381, 913-924.	1.9	16
67	Determination of constituents of essential oil from Angelica sinensis by gas chromatography — mass spectrometry. Central South University, 2005, 12, 430-436.	0.5	16
68	Comments on the Baseline Removal Method Based on Quantile Regression and Comparison of Several Methods. Chromatographia, 2012, 75, 313-314.	0.7	16
69	Mixture analysis using reverse searching and non-negative least squares. Chemometrics and Intelligent Laboratory Systems, 2014, 137, 10-20.	1.8	16
70	A green method for the quantification of polysaccharides in Dendrobium officinale. RSC Advances, 2015, 5, 105057-105065.	1.7	16
71	Simultaneous Determination of Enalapril and Enalaprilat in Human Plasma by LC-MS: Application to a Bioequivalence Study. Chromatographia, 2007, 65, 209-215.	0.7	15
72	Simultaneous determination of neutral and uronic sugars based on UV–vis spectrometry combined with PLS. International Journal of Biological Macromolecules, 2016, 87, 290-294.	3.6	15

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73	A roughness penalty approach and its application to noisy hyphenated chromatographic two-way data. Journal of Chemometrics, 1999, 13, 511-524.	0.7	14
74	Library Search of Mass Spectra with a New Matching Algorithm Based on Substructure Similarity Analytical Sciences, 2001, 17, 635-638.	0.8	14
75	Study on absorption of Angelica sinensis in rabbit plasma by HPLC-DAD-MS and multicomponent spectral correlative chromatography. Chemometrics and Intelligent Laboratory Systems, 2006, 82, 229-235.	1.8	14
76	Using nonrandom two-liquid model for solvent system selection in counter-current chromatography. Journal of Chromatography A, 2014, 1355, 80-85.	1.8	14
77	Sequential number-theoretic optimization (SNTO) method applied to chemical quantitative analysis. Journal of Chemometrics, 1997, 11, 267-281.	0.7	13
78	Chemical rank estimation for excitation—emission matrices using a morphological approach. Journal of Chemometrics, 1998, 12, 95-104.	0.7	13
79	Interpretation of type 2 diabetes mellitus relevant GC-MS metabolomics fingerprints by using random forests. Analytical Methods, 2013, 5, 4883-4889.	1.3	13
80	Systematic and practical solvent system selection strategy based on the nonrandom two-liquid segment activity coefficient model for real-life counter-current chromatography separation. Journal of Chromatography A, 2015, 1393, 47-56.	1.8	13
81	Analysis of the Water Soluble Constituents of <i>Cordyceps Sinensis</i> With Heuristic Evolving Latent Projections. Analytical Letters, 2000, 33, 3195-3211.	1.0	12
82	Resolution and identification of the acidic fraction of a petroleum ether extract ofRadix Rehmanniae Preparata by an evolving chemometric approach. Chromatographia, 2003, 57, 235-243.	0.7	11
83	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. International Journal of Mass Spectrometry, 2009, 286, 112-121.	0.7	11
84	Nonlinear alignment of chromatograms by means of moving window fast Fourier transfrom cross-correlation. Journal of Separation Science, 2013, 36, 1677-1684.	1.3	11
85	Comparative Analysis of the Volatile Components of <i>Agrimonia eupatoria</i> from Leaves and Roots by Gas Chromatography-Mass Spectrometry and Multivariate Curve Resolution. Journal of Analytical Methods in Chemistry, 2013, 2013, 1-9.	0.7	11
86	Two novel procedures for automatic resolution of two-way data from coupled chromatography. Analyst, The, 2001, 126, 161-168.	1.7	10
87	Development and Validation of LC–MS Method for the Determination of Hydroxyzine Hydrochloride in Human Plasma and Subsequent Application in a Bioequivalence Study. Chromatographia, 2007, 66, 481-486.	0.7	10
88	Simultaneous determination of adenine, uridine and adenosine in cordyceps sinensis and its substitutes by LC/ESI-MS. Central South University, 2004, 11, 295-299.	0.5	9
89	Analysis of volatile chemical components of Radix Paeoniae Rubra by gas chromatography-mass spectrometry and chemometric resolution. Central South University, 2007, 14, 57-61.	0.5	9
90	Comparative analysis of essential components between the herbal pair Radix Saposhnikoviae–Rhizoma seu Radix Notopterygii and its single herbs by GC-MS combined with a chemometric resolution method. Analytical Methods, 2009, 1, 45.	1.3	9

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91	Variable complementary network: a novel approach for identifying biomarkers and their mutual associations. Metabolomics, 2012, 8, 1218-1226.	1.4	9
92	A novel strategy for quantitative analysis of the formulated complex system using chromatographic fingerprints combined with some chemometric techniques. Journal of Chromatography A, 2014, 1370, 179-186.	1.8	9
93	Sparse canonical correlation analysis applied to â€omics studies for integrative analysis and biomarker discovery. Journal of Chemometrics, 2015, 29, 371-378.	0.7	9
94	Elastic net wavelength interval selection based on iterative rank PLS regression coefficient screening. Analytical Methods, 2017, 9, 672-679.	1.3	9
95	Modified secured principal component regression for detection of unexpected chromatographic features in herbal fingerprints. Analyst, The, 2006, 131, 538.	1.7	8
96	Chromatographic fingerprint analysis of Fructus Aurantii Immaturus by HPLC-DAD and chemometric methods. Journal of Central South University, 2011, 18, 353-360.	1.2	8
97	Retention Indices for Identification of Aroma Compounds by GC: Development and Application of a Retention Index Database. Chromatographia, 2015, 78, 89-108.	0.7	8
98	Chromatographic fingerprint of Semen Armeniacae Amarae based on high-performance liquid chromatogram and chemometric methods. Analytical Methods, 2012, 4, 299-308.	1.3	7
99	Incorporating variable importance into kernel PLS for modeling the structure–activity relationship. Journal of Mathematical Chemistry, 2018, 56, 713-727.	0.7	7
100	A Novel Approach to the Retrieval of the Mass Spectrum of a Mixture Analytical Sciences, 2000, 16, 603-607.	0.8	6
101	Comparative analysis of chemical components between barks and leaves of Eucommia ulmoides Oliver. Central South University, 2009, 16, 371-379.	0.5	6
102	Determination of trace elements in high purity nickel by high resolution inductively coupled plasma mass spectrometry. Journal of Central South University, 2012, 19, 2416-2420.	1.2	6
103	Empirical Kriging models and their applications to QSAR. Journal of Chemometrics, 2007, 21, 43-52.	0.7	5
104	Microwave digestion polarography for determining seven trace elements in Salvia Miltiorrhiza Root and compound Salvia Militiorrhiza Root injection simultaneously. Central South University, 2007, 14, 514-519.	0.5	5
105	UPLC–MS–MS Analysis of Baicalin in the Cerebrospinal Fluid of Rabbits: Application to a Pharmacokinetic Study. Chromatographia, 2008, 68, 463-466.	0.7	5
106	Chemical fingerprinting of Su-He-Xiang-Wan and attribution of major characteristic peaks for its quality control by GC-MS. Journal of Central South University, 2013, 20, 2115-2123.	1.2	5
107	Shrunken centroids regularized discriminant analysis as a promising strategy for metabolomics data exploration. Journal of Chemometrics, 2015, 29, 154-164.	0.7	5
108	Two new algorithms for resolution of two-way data. Journal of Chemometrics, 1996, 10, 63-76.	0.7	4

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109	Optimization of extraction and determination of emodin from Polygonum cuspidatum Sieb. et Zucc. products by HPLC-DAD. Central South University, 2006, 13, 658-662.	0.5	4
110	Optimization of Liensinine, Isoliensinine and Neferine Extraction from the Embryo of the Seed of Nelumbo nuciferaGAERTN. Separation Science and Technology, 2008, 43, 3637-3651.	1.3	4
111	Analysis of volatile components in herbal pair herba schizonepetae-ramulus cinnamomi. Central South University, 2008, 15, 791-795.	0.5	3
112	Stability, detonation properties and pyrolysis mechanisms of polynitrotriprismanes C6H6â^'n(NO2)n (n=1â^'6). Journal of Central South University, 2011, 18, 1395-1401.	1.2	3
113	QSRR Study on Flavor Compounds of Diverse Structures on Different Columns with the Help of New Chemometric Methods. Chromatographia, 2013, 76, 241-253.	0.7	3
114	A novel tree kernel partial least squares for modeling the structure–activity relationship. Journal of Chemometrics, 2013, 27, 43-49.	0.7	3
115	Application of GC–MS coupled with chemometrics for scanning serum metabolic biomarkers from renal fibrosis rat. Biochemical and Biophysical Research Communications, 2015, 461, 186-192.	1.0	3
116	Simultaneous separation and determination of four main isoflavonoids in Astragali Radix by an isocratic LC/ESI-MS method. Journal of Central South University, 2016, 23, 303-309.	1.2	3
117	A multi-sequential number-theoretic optimization algorithm using clustering methods. Central South University, 2005, 12, 283-293.	0.5	2
118	CHROMATOGRAPHIC FINGERPRINTS OF SEED EMBRYO OF NELUMBO NUCIFERA GAERTN BY REVERSED-PHASE AND HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY. Journal of Liquid Chromatography and Related Technologies, 2012, 35, 621-633.	0.5	2
119	Trace amounts of impurities in electrolytic manganese metal by sector field inductively coupled plasma mass spectrometry. Journal of Central South University, 2013, 20, 3385-3390.	1.2	2
120	Simultaneous determination mercury species of Su-He-Xiang-Wan in rat tissues by HPLC-CVG-AFS. Journal of Central South University, 2013, 20, 894-901.	1.2	2
121	Semiautomated Alignment of High-Throughput Metabolite Profiles with Chemometric Tools. Journal of Analytical Methods in Chemistry, 2017, 2017, 1-9.	0.7	2
122	Relationship between initial efficiency and structure parameters of carbon anode material for Li-ion battery. Central South University, 2008, 15, 484-487.	0.5	1
123	Kernel k-nearest neighbor classifier based on decision tree ensemble for SAR modeling analysis. Analytical Methods, 2014, 6, 6621.	1.3	1
124	Direct rapid determination of traces of sulfide in environment samples. Central South University, 2002, 9, 250-254.	0.5	0
125	Systematically structural identification of nitric compounds in crude oil with chemometric resolution. Central South University, 2005, 12, 300-305.	0.5	0
126	Structural features hidden in the degree distributions of topological graphs. Journal of Mathematical Chemistry, 2005, 37, 37-56.	0.7	0