



## Zhi-Min Zhang

Central South University

Chemometrics  
Cheminformatics  
Analytical Chemistry  
Deep Learning

All

Since 2018

Citations	3665	2770
h-index	27	24
i10-index	61	49

0 articles

12 articles

not available

available

Based on funding mandates

TITLE	CITED BY	YEAR
<a href="#">Baseline correction using adaptive iteratively reweighted penalized least squares</a> ZM Zhang, S Chen, YZ Liang Analyst 135 (5), 1138-1146	847	2010
<a href="#">Deep-learning-based drug–target interaction prediction</a> M Wen, Z Zhang, S Niu, H Sha, R Yang, Y Yun, H Lu Journal of proteome research 16 (4), 1401-1409	424	2017
<a href="#">An intelligent background-correction algorithm for highly fluorescent samples in Raman spectroscopy</a> ZM Zhang, S Chen, YZ Liang, ZX Liu, QM Zhang, LX Ding, F Ye, H Zhou Journal of Raman Spectroscopy 41 (6), 659-669	340	2009
<a href="#">Deep learning-based component identification for the Raman spectra of mixtures</a> X Fan, W Ming, H Zeng, Z Zhang, H Lu Analyst 144 (5), 1789-1798	138	2019
<a href="#">Application of random forests to select premium quality vegetable oils by their fatty acid composition</a> F Ai, J Bin, Z Zhang, J Huang, J Wang, Y Liang, L Yu, Z Yang Food chemistry 143, 472-478	121	2014
<a href="#">Morphological weighted penalized least squares for background correction</a> Z Li, DJ Zhan, JJ Wang, J Huang, QS Xu, ZM Zhang, YB Zheng, YZ Liang, ... Analyst 138 (16), 4483-4492	83	2013
<a href="#">Peak alignment using wavelet pattern matching and differential evolution</a> ZM Zhang, S Chen, YZ Liang Talanta 83 (4), 1108-1117	78	2011
<a href="#">DeepMirTar: a deep-learning approach for predicting human miRNA targets</a> M Wen, P Cong, Z Zhang, H Lu, T Li Bioinformatics 34 (22), 3781-3787	73	2018
<a href="#">Multiscale peak detection in wavelet space</a> ZM Zhang, X Tong, Y Peng, P Ma, MJ Zhang, HM Lu, XQ Chen, YZ Liang Analyst 140 (23), 7955-7964	68	2015
<a href="#">Predicting a molecular fingerprint from an electron ionization mass spectrum with deep neural networks</a> H Ji, H Deng, H Lu, Z Zhang Analytical Chemistry 92 (13), 8649-8653	64	2020
<a href="#">Calibration transfer via an extreme learning machine auto-encoder</a> WR Chen, J Bin, HM Lu, ZM Zhang, YZ Liang Analyst 141 (6), 1973-1980	64	2016
<a href="#">Multiscale peak alignment for chromatographic datasets</a> ZM Zhang, YZ Liang, HM Lu, BB Tan, XN Xu, M Ferro Journal of Chromatography A	62	2011
<a href="#">Prediction of liquid chromatographic retention time with graph neural networks to assist in small molecule identification</a> Q Yang, H Ji, H Lu, Z Zhang Analytical Chemistry 93 (4), 2200-2206	58	2021
<a href="#">Representative subset selection and outlier detection via isolation forest</a> WR Chen, YH Yun, M Wen, HM Lu, ZM Zhang, YZ Liang Analytical methods 8 (39), 7225-7231	52	2016
<a href="#">Comparisons of five algorithms for chromatogram alignment</a> W Jiang, ZM Zhang, YH Yun, DJ Zhan, YB Zheng, YZ Liang, ZY Yang, ... Chromatographia 76, 1067-1078	48	2013
<a href="#">Deep MS/MS-aided structural-similarity scoring for unknown metabolite identification</a> H Ji, Y Xu, H Lu, Z Zhang Analytical chemistry 91 (9), 5629-5637	45	2019
<a href="#">Baseline correction of high resolution spectral profile data based on exponential smoothing</a> X Liu, Z Zhang, Y Liang, PFM Sousa, Y Yun, L Yu Chemometrics and Intelligent Laboratory Systems 139, 97-108	43	2014
<a href="#">Comprehensive metabolic profiles of seminal plasma with different forms of male infertility and their correlation with sperm parameters</a> Y Xu, H Lu, Y Wang, Z Zhang, Q Wu Journal of Pharmaceutical and Biomedical Analysis 177, 112888	42	2020

TITLE	CITED BY	YEAR
<a href="#">Classification of green and black teas by PCA and SVM analysis of cyclic voltammetric signals from metallic oxide-modified electrode</a> N Liu, Y Liang, J Bin, Z Zhang, J Huang, RX Shu, K Yang Food Analytical Methods 7, 472-480	42	2014
<a href="#">Synthesis of multi-Au-nanoparticle-embedded mesoporous silica microspheres as self-filtering and reusable substrates for SERS detection</a> M Chen, W Luo, Z Zhang, R Wang, Y Zhu, H Yang, X Chen ACS applied materials & interfaces 9 (48), 42156-42166	40	2017
<a href="#">Selective iteratively reweighted quantile regression for baseline correction</a> X Liu, Z Zhang, PFM Sousa, C Chen, M Ouyang, Y Wei, Y Liang, Y Chen, ... Analytical and bioanalytical chemistry 406, 1985-1998	36	2014
<a href="#">Absolute quantitative imaging of sphingolipids in brain tissue by exhaustive liquid microjunction surface sampling–liquid chromatography–mass spectrometry</a> Q Wu, Z Huang, Y Wang, Z Zhang, H Lu Journal of Chromatography A 1609, 460436	31	2020
<a href="#">Core-shell-satellite microspheres-modified glass capillary for microsampling and ultrasensitive SERS spectroscopic detection of methotrexate in serum</a> M Chen, J Tang, W Luo, Z Zhang, Y Zhu, R Wang, H Yang, X Chen Sensors and Actuators B: Chemical 275, 267-276	31	2018
<a href="#">Application of Fast Fourier Transform Cross-Correlation and Mass Spectrometry Data for Accurate Alignment of Chromatograms</a> YB Zheng, ZM Zhang, YZ Liang, DJ Zhan, JH Huang, YH Yun, HL Xie Journal of Chromatography A	31	2013
<a href="#">Characterizing semen abnormality male infertility using non-targeted blood plasma metabolomics</a> P Ma, Z Zhang, X Zhou, J Luo, H Lu, Y Wang PloS one 14 (7), e0219179	30	2019
<a href="#">KPIC2: an effective framework for mass spectrometry-based metabolomics using pure ion chromatograms</a> H Ji, F Zeng, Y Xu, H Lu, Z Zhang Analytical chemistry 89 (14), 7631-7640	27	2017
<a href="#">Automatic standardization method for Raman spectrometers with applications to pharmaceuticals</a> H Chen, ZM Zhang, L Miao, DJ Zhan, YB Zheng, Y Liu, F Lu, YZ Liang Journal of Raman Spectroscopy 46 (1), 147-154	27	2015
<a href="#">UPLC-ESI-IT-TOF-MS metabolomic study of the therapeutic effect of Xuefu Zhuyu decoction on rats with traumatic brain injury</a> C Fu, Q Wu, Z Zhang, Z Xia, H Ji, H Lu, Y Wang Journal of ethnopharmacology 245, 112149	26	2019
<a href="#">The rapid determination of total polyphenols content and antioxidant activity in Dendrobium officinale using near-infrared spectroscopy</a> L Ma, Z Zhang, X Zhao, S Zhang, H Lu Analytical Methods 8 (23), 4584-4589	26	2016
<a href="#">Raman spectroscopy fluorescence background correction and its application in clustering analysis of medicines</a> S Chen, X Li, Y Liang, Z Zhang, Z Liu, Q Zhang, L Ding, F Ye Spectroscopy and Spectral Analysis 30 (8), 2157-2160	26	2010
<a href="#">Sensitive surface enhanced Raman spectroscopy (SERS) detection of methotrexate by core-shell-satellite magnetic microspheres</a> M Chen, W Luo, Z Zhang, F Zhu, S Liao, H Yang, X Chen Talanta 171, 152-158	24	2017
<a href="#">In situ fabrication of label-free optical sensing paper strips for the rapid surface-enhanced Raman scattering (SERS) detection of brassinosteroids in plant tissues</a> M Chen, Z Zhang, M Liu, C Qiu, H Yang, X Chen Talanta 165, 313-320	24	2017
<a href="#">Qualitative analysis of major constituents from Xue Fu Zhu Yu Decoction using ultra high performance liquid chromatography with hybrid ion trap time-of-flight mass spectrometry</a> C Fu, Z Xia, Y Liu, H Lu, Z Zhang, Y Wang, X Fan Journal of separation science 39 (17), 3457-3468	24	2016
<a href="#">Direct calibration transfer to principal components via canonical correlation analysis</a> X Fan, H Lu, Z Zhang Chemometrics and Intelligent Laboratory Systems 181, 21-28	22	2018
<a href="#">A modified multiscale peak alignment method combined with trilinear decomposition to study the volatile/heat-labile components in Ligusticum chuanxiong Hort-Cyperus rotundus ...</a> M He, P Yan, ZY Yang, ZM Zhang, TB Yang, L Hong Journal of Chromatography B 1079, 41-50	22	2018
<a href="#">Recursive wavelet peak detection of analytical signals</a> X Tong, Z Zhang, F Zeng, C Fu, P Ma, Y Peng, H Lu, Y Liang Chromatographia 79, 1247-1255	21	2016

TITLE	CITED BY	YEAR
<a href="#">Mixture analysis using reverse searching and non-negative least squares</a> ZM Zhang, XQ Chen, HM Lu, YZ Liang, W Fan, D Xu, J Zhou, F Ye, ... Chemometrics and Intelligent Laboratory Systems 137, 10-20	21	2014
<a href="#">Scalable calibration transfer without standards via dynamic time warping for near-infrared spectroscopy</a> C Zou, H Zhu, J Shen, Y He, J Su, X Fan, H Lu, Z Zhang, Y Chen Analytical Methods 11 (35), 4481-4493	19	2019
<a href="#">Comments on the Baseline Removal Method Based on Quantile Regression and Comparison of Several Methods</a> ZM Zhang, YZ Liang Chromatographia 75 (5), 313-314	19	2012
<a href="#">Retention time prediction in hydrophilic interaction liquid chromatography with graph neural network and transfer learning</a> Q Yang, H Ji, X Fan, Z Zhang, H Lu Journal of Chromatography A 1656, 462536	18	2021
<a href="#">Simultaneous determination of neutral and uronic sugars based on UV-vis spectrometry combined with PLS</a> CH Zhang, YH Yun, ZM Zhang, YZ Liang International journal of biological macromolecules 87, 290-294	18	2016
<a href="#">Identification of terpenoids from Ephedra combining with accurate mass and in-silico retention indices</a> M He, J Yan, D Cao, S Liu, C Zhao, Y Liang, Y Li, Z Zhang Talanta 103, 116-122	17	2013
<a href="#">Enhancing coverage in LC-MS-based untargeted metabolomics by a new sample preparation procedure using mixed-mode solid-phase extraction and two derivatizations</a> Q Wu, Y Xu, H Ji, Y Wang, Z Zhang, H Lu Analytical and bioanalytical chemistry 411, 6189-6202	16	2019
<a href="#">Chromatographic fingerprinting and chemometric techniques for quality control of herb medicines</a> Z Zhang, Y Liang, P Xie, F Chau, K Chan Data analytics for traditional chinese medicine research, 133-153	15	2014
<a href="#">IsoResolve: predicting splice isoform functions by integrating gene and isoform-level features with domain adaptation</a> HD Li, C Yang, Z Zhang, M Yang, FX Wu, GS Omenn, J Wang Bioinformatics 37 (4), 522-530	14	2021
<a href="#">Fast and low-cost surface-enhanced Raman scattering (SERS) method for on-site detection of flumetsulam in wheat</a> M Han, H Lu, Z Zhang Molecules 25 (20), 4662	14	2020
<a href="#">Feature extraction from resolution perspective for gas chromatography-mass spectrometry datasets</a> P Ma, Z Zhang, X Zhou, Y Yun, Y Liang, H Lu RSC advances 6 (115), 113997-114004	14	2016
<a href="#">Simultaneous determination of lead and tin at the bismuth film electrode by square wave stripping voltammetry and chemometric methods</a> W Tang, J Bin, W Fan, Z Zhang, Y Yun, Y Liang Analytical Methods 8 (27), 5475-5486	14	2016
<a href="#">Joint MS-based platforms for comprehensive comparison of rat plasma and serum metabolic profiling</a> Z Lin, Z Zhang, H Lu, Y Jin, L Yi, Y Liang Biomedical Chromatography 28 (9), 1235-1245	14	2014
<a href="#">Two-way data analysis: multivariate curve resolution: noniterative resolution methods</a> Z Zhang, P Ma, H Lu Elsevier	13	2020
<a href="#">GC-MS profiling of leukemia cells: an optimized preparation protocol for the intracellular metabolome</a> Y He, ZM Zhang, P Ma, HC Ji, HM Lu Analytical Methods 10 (10), 1266-1274	13	2018
<a href="#">Application of sparse linear discriminant analysis for metabolomics data</a> M Ouyang, Z Zhang, C Chen, X Liu, Y Liang Analytical methods 6 (22), 9037-9044	12	2014
<a href="#">Evaluation and prediction of the antioxidant activity of Epimedium from multi-wavelength chromatographic fingerprints and chemometrics</a> L Zhang, Z Zhang, Q Luo, H Lu, Y Liang Analytical Methods 6 (4), 1036-1043	12	2014
<a href="#">Nonlinear alignment of chromatograms by means of moving window fast Fourier transform cross-correlation</a> Z Li, JJ Wang, J Huang, ZM Zhang, HM Lu, YB Zheng, DJ Zhan, YZ Liang Journal of separation science 36 (9-10), 1677-1684	12	2013
<a href="#">Deep learning-based method for compound identification in NMR spectra of mixtures</a> W Wei, Y Liao, Y Wang, S Wang, W Du, H Lu, B Kong, H Yang, Z Zhang Molecules 27 (12), 3653	11	2022
<a href="#">Developing a peak extraction and retention (PEER) algorithm for improving the temporal resolution of Raman spectroscopy</a> S Luo, X Wang, G Chen, Y Xie, W Zhang, Z Zhou, Z Zhang, B Ren, G Liu, ... Analytical Chemistry 93 (24), 8408-8413	11	2021

TITLE	CITED BY	YEAR
<a href="#">Pure ion chromatogram extraction via optimal k-means clustering</a> H Ji, H Lu, Z Zhang RSC advances 6 (62), 56977-56985	11	2016
<a href="#">Multi-core computing: A novel accelerating method for chemometrics calculation</a> ZM Zhang, YZ Liang, QS Xu Chemometrics and Intelligent Laboratory Systems 96 (1), 94-97	11	2009
<a href="#">Deep-Learning-Assisted multivariate curve resolution</a> X Fan, P Ma, M Hou, Y Ni, Z Fang, H Lu, Z Zhang Journal of Chromatography A 1635, 461713	10	2021
<a href="#">Mixture analysis using non-negative elastic net for Raman spectroscopy</a> HT Zeng, MH Hou, YP Ni, Z Fang, XQ Fan, HM Lu, ZM Zhang Journal of Chemometrics 34 (10), e3293	10	2020
<a href="#">Fast pure ion chromatograms extraction method for LC-MS</a> R Wang, H Ji, P Ma, H Zeng, Y Xu, ZM Zhang, HM Lu Chemometrics and Intelligent Laboratory Systems 170, 68-74	10	2017
<a href="#">Fully automatic resolution of untargeted GC-MS data with deep learning assistance</a> X Fan, Z Xu, H Zhang, D Liu, Q Yang, Q Tao, M Wen, X Kang, Z Zhang, ... Talanta 244, 123415	9	2022
<a href="#">Separation of Glycolipids/Sphingolipids from Glycerophospholipids on TiO<sub>2</sub> Coating in Aprotic Solvent for Rapid Comprehensive Lipidomic Analysis with Liquid ...</a> Z Huang, Q Wu, H Lu, Y Wang, Z Zhang Analytical Chemistry 92 (16), 11250-11259	9	2020
<a href="#">Eliminating non-linear raman shift displacement between spectrometers via moving window fast fourier transform cross-correlation</a> H Chen, Y Liu, F Lu, Y Cao, ZM Zhang Frontiers in Chemistry 6, 515	9	2018
<a href="#">Application of Subwindow Factor Analysis and Mass Spectral information for accurate alignment of non-targeted metabolic profiling</a> TB Yang, P Yan, M He, L Hong, R Pei, ZM Zhang, LZ Yi, XY Yuan Journal of Chromatography A 1563, 162-170	9	2018
<a href="#">Supervised principal components: a new method for multivariate spectral analysis</a> J Bin, FF Ai, N Liu, ZM Zhang, YZ Liang, RX Shu, K Yang Journal of Chemometrics 27 (12), 457-465	9	2013
<a href="#">Shrunken centroids regularized discriminant analysis as a promising strategy for metabolomics data exploration</a> C Chen, ZM Zhang, ML Ouyang, X Liu, L Yi, YZ Liang, CP Zhang Journal of Chemometrics 29 (3), 154-164	8	2015
<a href="#">Rapid determination of unsaturated fatty acids in vegetable oil by Raman spectroscopy and chemometrics</a> J Bin, F Ai, W Fan, J Zhou, Z Zhang Analytical Letters 49 (6), 831-842	7	2016
<a href="#">Unitary and binary chromatographic fingerprints analysis of Epimedium</a> L Zhang, Z Zhang, J Huang, Y Jin, H Lu Analytical Methods 5 (19), 5331-5338	7	2013
<a href="#">Feature Extraction for LC-MS via Hierarchical Density Clustering</a> H Zhu, Y Chen, C Liu, R Wang, G Zhao, B Hu, H Ji, ZM Zhang, H Lu Chromatographia 82, 1449-1457	6	2019
<a href="#">Dynamic metabolic profiling of urine from type 2 diabetic KK-Ay mice treated with repaglinide by GC-MS</a> H Yi, L Yi, R He, Q Lv, X Ren, Z Zhang, Y Liang, J He Analytical letters 45 (13), 1862-1874	6	2012
<a href="#">Chemical Fingerprint Analysis for Quality Control of <i>Herba Ephedrae</i> Based on HPLC-DAD Combined with Chemometrics Methods</a> X Ren, Y Liang, X Li, H Yi, Z Zhang Analytical letters 45 (13), 1824-1835	6	2012
<a href="#">Development of a sensitive and rapid UHPLC-MS/MS method for simultaneous quantification of nine compounds in rat plasma and application in a comparative pharmacokinetic study ...</a> C Fu, Q Wu, Z Zhang, Z Xia, Z Liu, H Lu, Y Wang, G Huang Biomedical Chromatography 34 (9), e4872	5	2020
<a href="#">MARS 2: A computational tool to resolve and extract features from large-scale GC-MS datasets</a> P Ma, M Li, H Lu, Z Zhang Chemometrics and Intelligent Laboratory Systems 191, 12-20	5	2019
<a href="#">Sample classification of GC-ToF-MS metabolomics data without the requirement for chromatographic deconvolution</a> H Lu, D Gan, Z Zhang, Y Liang Metabolomics 7 (2), 191-205	5	2011
<a href="#">A Universal and Accurate Method for Easily Identifying Components in Raman Spectroscopy Based on Deep Learning</a> X Fan, Y Wang, C Yu, Y Lv, H Zhang, Q Yang, M Wen, H Lu, Z Zhang	4	2023

TITLE	CITED BY	YEAR
Analytical Chemistry 95 (11), 4863-4870		
<a href="#">Prediction of drug-likeness using graph convolutional attention network</a> J Sun, M Wen, H Wang, Y Ruan, Q Yang, X Kang, H Zhang, Z Zhang, ... Bioinformatics 38 (23), 5262-5269	4	2022
<a href="#">TarMet: a reactive GUI tool for efficient and confident quantification of MS based targeted metabolic and stable isotope tracer analysis</a> H Ji, Z Zhang, H Lu Metabolomics 14, 1-5	4	2018
<a href="#">Parallel formula generator based on branch-and-bound algorithm for elucidating high resolution mass spectra</a> M Zhang, Z Zhang, C Chen, H Lu, Y Liang Chemometrics and Intelligent Laboratory Systems 153, 106-109	4	2016
<a href="#">Pure Ion Chromatograms Combined with Advanced Machine Learning Methods Improve Accuracy of Discriminant Models in LC-MS-Based Untargeted Metabolomics</a> M Tian, Z Lin, X Wang, J Yang, W Zhao, H Lu, Z Zhang, Y Chen Molecules 26 (9), 2715	3	2021
<a href="#">Chromatographic Profiling with Machine Learning Discriminates the Maturity Grades of <i>Nicotiana tabacum</i> L. Leaves</a> Y Chen, M Tian, G Zhao, H Lu, Z Zhang, C Zou Separations 8 (1), 9	3	2021
<a href="#">Rapid and sensitive detection of neotame in instant grain beverages by paper-based silver nanoparticles substrates</a> M Han, W Wei, H Lu, Z Zhang Micro & Nano Letters 15 (15), 1099-1104	3	2020
<a href="#">Deep learning enable untargeted metabolite extraction from high throughput coverage data-independent acquisition</a> H Ji, H Lu, Z Zhang bioRxiv, 2020.03. 22.002683	3	2020
<a href="#">Chemometrics in instrumental analysis of complex systems—in honor and memory of Yi-Zeng Liang</a> Z Zhang, H Li, Y Yun, P Ma, L Yi, D Ren, L Zhang, J Yan, N Dong, B Deng, ... Journal of Chemometrics 32 (11), e3095	3	2018
<a href="#">Robust alignment of chromatograms by statistically analyzing the shifts matrix generated by moving window fast Fourier transform cross-correlation</a> M Zhang, M Wen, ZM Zhang, H Lu, Y Liang, D Zhan Journal of Separation Science 38 (6), 965-974	3	2015
<a href="#">基于 Arduino 和 Python 搭建的实时在线 pH 测量平台</a> 宾俊, 艾芳芳, 刘念, 张志敏, 梁逸曾 计算机与应用化学, 48-52	3	2013
<a href="#">Deep learning-based method for automatic resolution of gas chromatography-mass spectrometry data from complex samples</a> Y Fan, C Yu, H Lu, Y Chen, B Hu, X Zhang, J Su, Z Zhang Journal of Chromatography A 1690, 463768	2	2023
<a href="#">Two-stage iteratively reweighted smoothing splines for baseline correction</a> J Wei, C Zhu, ZM Zhang, P He Chemometrics and Intelligent Laboratory Systems 227, 104606	2	2022
<a href="#">Standardization of Raman spectra using variable penalty dynamic time warping</a> Q Xu, H Chen, S Ye, Y Zeng, H Lu, Z Zhang Analytical Methods 13 (30), 3414-3423	2	2021
<a href="#">Structure-aware enhancement of imaging mass spectrometry data for semantic segmentation</a> L Liang, Z Zhang Chemometrics and Intelligent Laboratory Systems 171, 259-265	2	2017
<a href="#">基于小波-反向搜索及表面增强拉曼的食品中色素的光谱定性分析</a> 彭颖, 张志敏, 卢红梅, 梁逸曾, 刘察, 陈启振, 刘国坤 分析测试学报 36 (5), 627-632	2	2017
<a href="#">Investigation of chemical components variation in maxing shigan decoction by HPLC-DAD</a> M He, Y Liang, Z Zhang, Y Li, Z Zeng, D Cao, Y Yun, J Yan Journal of liquid chromatography & related technologies 35 (19), 2777-2794	2	2012
<a href="#">A novel storage method for near infrared spectroscopy chemometric models</a> ZM Zhang, S Chen, YZ Liang Analytica Chimica Acta 668 (2), 149	2	2010
<a href="#">Ultra-fast and accurate electron ionization mass spectrum matching for compound identification with million-scale <i>in-silico</i> library</a> Q Yang, H Ji, Z Xu, Y Li, P Wang, J Sun, X Fan, H Zhang, H Lu, Z Zhang Nature Communications 14 (1), 3722	1	2023
<a href="#">Fusion of Quality Evaluation Metrics and Convolutional Neural Network Representations for ROI Filtering in LC-MS</a> H Zhang, Z Xu, X Fan, Y Wang, Q Yang, J Sun, M Wen, X Kang, Z Zhang, ... Analytical Chemistry 95 (2), 612-620	1	2023
<a href="#">EasyCID: Make component identification easy in Raman spectroscopy</a>	1	2022

TITLE	CITED BY	YEAR
Y Wang, X Fan, S Tian, H Zhang, J Sun, H Lu, Z Zhang Chemometrics and Intelligent Laboratory Systems 231, 104657		
<a href="#">Peak alignment for herbal fingerprints from liquid chromatography-high resolution mass spectrometry via diffusion model and bi-directional eigenvalues</a> J Zeng, M He, H Wu, S Fu, Z Zhang Microchemical Journal 167, 106296	1	2021
<a href="#">A GC-MS study of the stability of rat serum metabolome during the sample preparation procedure</a> P Cai, J Huang, Z Zhang, H Lu Analytical Methods 5 (23), 6807-6813	1	2013
<a href="#">An end-to-end method for palm-leaf manuscript segmentation based on U-Net</a> Y Wang, S Tian, M Wen, Y Ruan, Q Tao, X Zhou, F Gao, H Lu, Z Zhang Journal of Cultural Heritage 63, 169-178		2023
<a href="#">Highly accurate and large-scale collision cross sections prediction with graph neural networks</a> R Guo, Y Zhang, Y Liao, Q Yang, T Xie, X Fan, Z Lin, Y Chen, H Lu, ... Communications Chemistry 6 (1), 139		2023
<a href="#">Highly automatic and universal approach for pure ion chromatogram construction from liquid chromatography-mass spectrometry data using deep learning</a> Y Liao, M Tian, H Zhang, H Lu, Y Jiang, Y Chen, Z Zhang Journal of Chromatography A, 464172		2023
<a href="#">Detection of cimetidine in human plasma by surface-enhanced Raman scattering</a> Y Zang, Z Zhang, H Lu Micro & Nano Letters 15 (8), 514-518		2020
<a href="#">基于气相色谱-质谱联用的血府逐瘀汤治疗大鼠颅脑损伤的血浆代谢组学研究</a> 范帆, 张志敏, 卢红梅 分析测试学报 39 (8), 967-973		2020
<a href="#">LIU Guo-Kun. Rapid Identification of Active Ingredient and Geographic Traceability of Bifonazole Drugs by Raman Spectroscopy [J]</a> SH Luo, ZM Zhou, JY Huang, C Pan, LL Li, SF Zheng, ZM Zhang Chinese Journal of Analytical Chemistry 48 (9), 1210-1218		2020
<a href="#">Denoising of Signals, Signal Enhancement, and Baseline Correction in Chromatographic Science</a> ZM Zhang, HM Lu, YZ Liang, Ł Komsta, Y Vander Heyden, J Sherma Chemometrics in Chromatography, 137-170		2018
<a href="#">利用混料设计和香农信息熵优化香烟主流烟气萃取溶液的配比</a> 李忠, 黄静, 张志敏, 郑宜报, 郭生云, 梁逸曾 计算机与应用化学 30 (5), 570-574		2013
<a href="#">卷烟烟气 GC/oa-TOF-MS 分析的萃取溶剂选择与程序升温时间优化</a> 李忠, 黄静, 梁逸曾, 张志敏, 郑宜报, 郭生云 烟草科技, 31-35		2013
<a href="#">An End-to-End Method for Background Removal of Palm-Leaf Manuscript Images Based on U-Net</a> Y Ruan, S Tian, M Wen, Q Tao, X Zhou, F Gao, H Lu, Z Zhang Available at SSRN 4129432		