Hong-Mei Lu

List of Publications by Year
in descending order

93 papers	2,805 citations	236925 25 h-index	197818 49 g-index
101 all docs	101 docs citations	101 times ranked	3148 citing authors

#	Article	IF	Citations
1	Rapid Characterization of Proteinaceous Binders Used in Artwork and Cultural Heritage Materials by Surface-Enhanced Raman Spectroscopy (SERS). Analytical Letters, 2022, 55, 555-565.	1.8	3
2	Determination of Fatty Acids in Rice Oil by Gas Chromatography–Mass Spectrometry (GC–MS) with Geographic and Varietal Discrimination by Supervised Orthogonal Partial Least Squares Discriminant Analysis (OPLS-DA). Analytical Letters, 2022, 55, 675-687.	1.8	7
3	Determination of 18 photoinitiators in food paper packaging materials by FastPrep-based extraction combined with GC–MS. Food Chemistry, 2022, 377, 131980.	8.2	6
4	Fully automatic resolution of untargeted GC-MS data with deep learning assistance. Talanta, 2022, 244, 123415.	5.5	13
5	Quantitative Mass Spectrometry Imaging with Liquid Microjunction Surface Sampling. Methods in Molecular Biology, 2022, 2437, 181-194.	0.9	1
6	Deep Learning-Based Method for Compound Identification in NMR Spectra of Mixtures. Molecules, 2022, 27, 3653.	3.8	10
7	Deep-Learning-Assisted multivariate curve resolution. Journal of Chromatography A, 2021, 1635, 461713.	3.7	12
8	Standardization of Raman spectra using variable penalty dynamic time warping. Analytical Methods, 2021, 13, 3414-3423.	2.7	2
9	Prediction of Liquid Chromatographic Retention Time with Graph Neural Networks to Assist in Small Molecule Identification. Analytical Chemistry, 2021, 93, 2200-2206.	6.5	60
10	Quantitative Mass Spectrometry Imaging of Metabolomes and Lipidomes for Tracking Changes and Therapeutic Response in Traumatic Brain Injury Surrounding Injured Area at Chronic Phase. ACS Chemical Neuroscience, 2021, 12, 1363-1375.	3.5	7
11	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
12	Photocatalytic reduction-based liquid microjunction surface sampling–mass spectrometry for rapid in situ analysis of aromatic amines originating from azo dyes in packaging papers. Analytical and Bioanalytical Chemistry, 2021, 413, 6649-6660.	3.7	1
13	Retention time prediction in hydrophilic interaction liquid chromatography with graph neural network and transfer learning. Journal of Chromatography A, 2021, 1656, 462536.	3.7	17
14	Per-pixel absolute quantitation for mass spectrometry imaging of endogenous lipidomes by model prediction of mass transfer kinetics in single-probe-based ambient liquid extraction. Talanta, 2021, 234, 122654.	5.5	5
15	Chromatographic Profiling with Machine Learning Discriminates the Maturity Grades of Nicotiana tabacum L. Leaves. Separations, 2021, 8, 9.	2.4	2
16	Comprehensive metabolic profiles of seminal plasma with different forms of male infertility and their correlation with sperm parameters. Journal of Pharmaceutical and Biomedical Analysis, 2020, 177, 112888.	2.8	39
17	Absolute quantitative imaging of sphingolipids in brain tissue by exhaustive liquid microjunction surface sampling–liquid chromatography–mass spectrometry. Journal of Chromatography A, 2020, 1609, 460436.	3.7	26
18	Fast and Low-Cost Surface-Enhanced Raman Scattering (SERS) Method for On-Site Detection of Flumetsulam in Wheat. Molecules, 2020, 25, 4662.	3.8	15

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19	Separation of Glycolipids/Sphingolipids from Glycerophospholipids on TiO_2 Coating in Aprotic Solvent for Rapid Comprehensive Lipidomic Analysis with Liquid Microjunction Surface Sampling-Mass Spectrometry. Analytical Chemistry, 2020, 92, 11250-11259.	6.5	9
20	Two-Way Data Analysis: Multivariate Curve Resolution: Noniterative Resolution Methods. , 2020, , 137-152.		1
21	Mixture analysis using non-negative elastic net for Raman spectroscopy. Journal of Chemometrics, 2020, 34, e3293.	1.3	8
22	Predicting a Molecular Fingerprint from an Electron Ionization Mass Spectrum with Deep Neural Networks. Analytical Chemistry, 2020, 92, 8649-8653.	6.5	59
23	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 after oral administration of Xuefu Zhuyu Decoction and nimodipine. Biomedical Chromatography, 2020, 34, e4872.	1.7	5
24	Rapid in situ quantitation of photoinitiators in packaging by two-points kinetic calibration of liquid microjunction surface sampling-mass spectrometry. Talanta, 2020, 216, 121017.	5.5	5
25	Quantitative mass spectrometry imaging of amino acids with isomer differentiation in brain tissue via exhaustive liquid microjunction surface sampling–tandem mass tags labeling–ultra performance liquid chromatography–mass spectrometry. Journal of Chromatography A, 2020, 1621, 461086.	3.7	10
26	Detection of cimetidine in human plasma by surface-enhanced Raman scattering. Micro and Nano Letters, 2020, 15, 514-518.	1.3	0
27	Rapid and sensitive detection of neotame in instant grain beverages by paper-based silver nanoparticles substrates. Micro and Nano Letters, 2020, 15, 1099-1104.	1.3	5
28	UPLC-ESI-IT-TOF-MS metabolomic study of the therapeutic effect of Xuefu Zhuyu decoction on rats with traumatic brain injury. Journal of Ethnopharmacology, 2019, 245, 112149.	4.1	24
29	Enhancing coverage in LC–MS-based untargeted metabolomics by a new sample preparation procedure using mixed-mode solid-phase extraction and two derivatizations. Analytical and Bioanalytical Chemistry, 2019, 411, 6189-6202.	3.7	15
30	Scalable calibration transfer without standards *via* dynamic time warping for near-infrared spectroscopy. Analytical Methods, 2019, 11, 4481-4493.	2.7	14
31	Feature Extraction for LC–MS via Hierarchical Density Clustering. Chromatographia, 2019, 82, 1449-1457.	1.3	6
32	Characterizing semen abnormality male infertility using non-targeted blood plasma metabolomics. PLoS ONE, 2019, 14, e0219179.	2.5	23
33	Deep learning-based component identification for the Raman spectra of mixtures. Analyst, The, 2019, 144, 1789-1798.	3.5	130
34	Exploring asthenozoospermia seminal plasma amino acid disorder based on GC-SIM-MS combined with chemometrics methods. Analytical Methods, 2019, 11, 2895-2902.	2.7	6
35	MARS 2: A computational tool to resolve and extract features from large-scale GC-MS datasets. Chemometrics and Intelligent Laboratory Systems, 2019, 191, 12-20.	3.5	7
36	Deep MS/MS-Aided Structural-Similarity Scoring for Unknown Metabolite Identification. Analytical Chemistry, 2019, 91, 5629-5637.	6.5	47

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37	GC-MS profiling of leukemia cells: an optimized preparation protocol for the intracellular metabolome. Analytical Methods, 2018, 10, 1266-1274.	2.7	12
38	Model population analysis in model evaluation. Chemometrics and Intelligent Laboratory Systems, 2018, 172, 223-228.	3.5	8
39	Chemometrics in instrumental analysis of complex systemsâ€"in honor and memory of Yiâ€Zeng Liang. Journal of Chemometrics, 2018, 32, e3095.	1.3	1
40	DeepMirTar: a deep-learning approach for predicting human miRNA targets. Bioinformatics, 2018, 34, 3781-3787.	4.1	65
41	Metabolic profiling putatively identifies plasma biomarkers of male infertility using UPLC-ESI-IT-TOFMS. RSC Advances, 2018, 8, 25974-25982.	3.6	5
42	TarMet: a reactive GUI tool for efficient and confident quantification of MS based targeted metabolic and stable isotope tracer analysis. Metabolomics, 2018, 14, 68.	3.0	5
43	Direct calibration transfer to principal components via canonical correlation analysis. Chemometrics and Intelligent Laboratory Systems, 2018, 181, 21-28.	3.5	21
44	Deep-Learning-Based Drugâ€"Target Interaction Prediction. Journal of Proteome Research, 2017, 16, 1401-1409.	3.7	381
45	KPIC2: An Effective Framework for Mass Spectrometry-Based Metabolomics Using Pure Ion Chromatograms. Analytical Chemistry, 2017, 89, 7631-7640.	6.5	25
46	Fast pure ion chromatograms extraction method for LC-MS. Chemometrics and Intelligent Laboratory Systems, 2017, 170, 68-74.	3.5	10
47	Plasma Metabolomics Analysis Based on GC-MS in Infertile Males with Kidney-Yang Deficiency Syndrome. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-11.	1.2	13
48	Metabolomics reveals the effect of Xuefu Zhuyu Decoction on plasma metabolism in rats with acute traumatic brain injury. Oncotarget, 2017, 8, 94692-94710.	1.8	24
49	Feature extraction from resolution perspective for gas chromatography-mass spectrometry datasets. RSC Advances, 2016, 6, 113997-114004.	3.6	14
50	Representative subset selection and outlier detection via isolation forest. Analytical Methods, 2016, 8, 7225-7231.	2.7	33
51	Recursive Wavelet Peak Detection of Analytical Signals. Chromatographia, 2016, 79, 1247-1255.	1.3	15
52	Qualitative analysis of major constituents from Xue Fu Zhu Yu Decoction using ultra high performance liquid chromatography with hybrid ion trap timeâ€ofâ€flight mass spectrometry. Journal of Separation Science, 2016, 39, 3457-3468.	2.5	23
53	The rapid determination of total polyphenols content and antioxidant activity in Dendrobium officinale using near-infrared spectroscopy. Analytical Methods, 2016, 8, 4584-4589.	2.7	21
54	Pure ion chromatogram extraction via optimal k-means clustering. RSC Advances, 2016, 6, 56977-56985.	3.6	10

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55	Parallel formula generator based on branch-and-bound algorithm for elucidating high resolution mass spectra. Chemometrics and Intelligent Laboratory Systems, 2016, 153, 106-109.	3.5	2
56	Calibration transfer via an extreme learning machine auto-encoder. Analyst, The, 2016, 141, 1973-1980.	3.5	55
57	A bootstrapping soft shrinkage approach for variable selection in chemical modeling. Analytica Chimica Acta, 2016, 908, 63-74.	5.4	142
58	A potential tool for diagnosis of male infertility: Plasma metabolomics based on GCâ€"MS. Talanta, 2016, 147, 82-89.	5.5	38
59	Influence of Light Intensity on the Yield and Quality of <i>Houttuynia cordata</i>. Plant Production Science, 2015, 18, 522-528.	2.0	5
60	A green method for the quantification of polysaccharides in Dendrobium officinale. RSC Advances, 2015, 5, 105057-105065.	3.6	16
61	Rapid Authentication of<i>Dendrobium officinale</i>by Near-Infrared Reflectance Spectroscopy and Chemometrics. Analytical Letters, 2015, 48, 817-829.	1.8	21
62	Exploring metabolic syndrome serum free fatty acid profiles based on GCâ€"SIMâ€"MS combined with random forests and canonical correlation analysis. Talanta, 2015, 135, 108-114.	5.5	37
63	Robust alignment of chromatograms by statistically analyzing the shifts matrix generated by moving window fast Fourier transform crossâ€correlation. Journal of Separation Science, 2015, 38, 965-974.	2.5	2
64	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.	3.7	13
65	Informative metabolites identification by variable importance analysis based on random variable combination. Metabolomics, 2015, 11, 1539-1551.	3.0	41
66	Multiscale peak detection in wavelet space. Analyst, The, 2015, 140, 7955-7964.	3.5	65
67	Application of near infrared spectroscopy for the rapid determination of epimedin A, B, C and icariin in Epimedium. RSC Advances, 2015, 5, 5046-5052.	3.6	20
68	Identification of green tea varieties and fast quantification of total polyphenols by near-infrared spectroscopy and ultraviolet-visible spectroscopy with chemometric algorithms. Analytical Methods, 2015, 7, 787-792.	2.7	55
69	Separation of nine compounds from<i>Salvia plebeia</i>R.Br. using two-step high-speed counter-current chromatography with different elution modes. Journal of Separation Science, 2014, 37, 2118-2125.	2.5	31
70	A strategy that iteratively retains informative variables for selecting optimal variable subset in multivariate calibration. Analytica Chimica Acta, 2014, 807, 36-43.	5.4	177
71	MeOx-TMS derivatization for GC-MS metabolic profiling of urine and application in the discrimination between normal C57BL/6J and type 2 diabetic KK-Ay mice. Analytical Methods, 2014, 6, 4380-4387.	2.7	20
72	Evaluation and prediction of the antioxidant activity of Epimedium from multi-wavelength chromatographic fingerprints and chemometrics. Analytical Methods, 2014, 6, 1036.	2.7	11

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73	Prediction of Peptide Fragment Ion Mass Spectra by Data Mining Techniques. Analytical Chemistry, 2014, 86, 7446-7454.	6.5	14
74	Exploring metabolic syndrome serum profiling based on gas chromatography mass spectrometry and random forest models. Analytica Chimica Acta, 2014, 827, 22-27.	5.4	61
75	Mixture analysis using reverse searching and non-negative least squares. Chemometrics and Intelligent Laboratory Systems, 2014, 137, 10-20.	3.5	16
76	Using nonrandom two-liquid model for solvent system selection in counter-current chromatography. Journal of Chromatography A, 2014, 1355, 80-85.	3.7	14
77	Unitary and binary chromatographic fingerprints analysis of Epimedium. Analytical Methods, 2013, 5, 5331.	2.7	7
78	Interpretation of type 2 diabetes mellitus relevant GC-MS metabolomics fingerprints by using random forests. Analytical Methods, 2013, 5, 4883-4889.	2.7	13
79	A GC-MS study of the stability of rat serum metabolome during the sample preparation procedure. Analytical Methods, 2013, 5, 6807.	2.7	0
80	Investigation of Scrambled Ions in Tandem Mass Spectra, Part 2. On the Influence of the Ions on Peptide Identification. Journal of the American Society for Mass Spectrometry, 2013, 24, 857-867.	2.8	6
81	Nonlinear alignment of chromatograms by means of moving window fast Fourier transfrom cross-correlation. Journal of Separation Science, 2013, 36, 1677-1684.	2.5	11
82	Establishment of reliable mass spectra and retention indices library: Identification of fatty acids in human plasma without authentic standards. Talanta, 2012, 88, 311-317.	5.5	14
83	Large-scale prediction of drug–target interactions using protein sequences and drug topological structures. Analytica Chimica Acta, 2012, 752, 1-10.	5.4	88
84	Multiscale peak alignment for chromatographic datasets. Journal of Chromatography A, 2012, 1223, 93-106.	3.7	50
85	A novel kernel Fisher discriminant analysis: Constructing informative kernel by decision tree ensemble for metabolomics data analysis. Analytica Chimica Acta, 2011, 706, 97-104.	5.4	25
86	Sample classification of GC-ToF-MS metabolomics data without the requirement for chromatographic deconvolution. Metabolomics, 2011, 7, 191-205.	3.0	5
87	Comparative evaluation of software for deconvolution of metabolomics data based on GC-TOF-MS. TrAC - Trends in Analytical Chemistry, 2008, 27, 215-227.	11.4	129
88	Anti-inflammatory effect of Houttuynia cordata injection. Journal of Ethnopharmacology, 2006, 104, 245-249.	4.1	141
89	Identification and quality assessment of Houttuynia cordata injection using GC–MS fingerprint: A standardization approach. Journal of Ethnopharmacology, 2006, 105, 436-440.	4.1	53
90	Variation in Chemical Composition and Antibacterial Activities of Essential Oils from Two Species of Houttuynia THUNB.. Chemical and Pharmaceutical Bulletin, 2006, 54, 936-940.	1.3	65

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91	Tentative Fingerprint-Efficacy Study of Houttuynia cordata Injection in Quality Control of Traditional Chinese Medicine. Chemical and Pharmaceutical Bulletin, 2006, 54, 725-730.	1.3	19
92	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
93	Supercritical CO_2 extraction of emodin and physcion from Polygonum cuspidatum and subsequent isolation by semipreparative chromatography. Journal of Separation Science, 2006, 29, 2136-2142.	2.5	22