

# Bin Hu

## List of Publications by Year in descending order

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91  
papers

3,304  
citations

126907

33  
h-index

161849

54  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2745  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of Melamine in Milk Products by Surface Desorption Atmospheric Pressure Chemical Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 2426-2436.	6.5	265
2	Electrospray Ionization Using Wooden Tips. <i>Analytical Chemistry</i> , 2011, 83, 8201-8207.	6.5	192
3	Tiotropium in Early-Stage Chronic Obstructive Pulmonary Disease. <i>New England Journal of Medicine</i> , 2017, 377, 923-935.	27.0	189
4	Chromium(III)-imprinted silica gel for speciation analysis of chromium in environmental water samples with ICP-MS detection. <i>Talanta</i> , 2008, 75, 536-543.	5.5	147
5	A Highly Selective Ferrocene-Based Planar Chiral PIP (Fc-PIP) Acyl Transfer Catalyst for the Kinetic Resolution of Alcohols. <i>Journal of the American Chemical Society</i> , 2010, 132, 17041-17044.	13.7	98
6	On the Mechanism of Extractive Electrospray Ionization. <i>Analytical Chemistry</i> , 2010, 82, 4494-4500.	6.5	98
7	Recent developments in stir bar sorptive extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2001-2026.	3.7	95
8	Sensitive Detection of Native Proteins Using Extractive Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3053-3056.	13.8	86
9	Neutral desorption using a sealed enclosure to sample explosives on human skin for rapid detection by EESI-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 719-722.	2.8	85
10	Direct ionization of biological tissue for mass spectrometric analysis. <i>Analyst, The</i> , 2012, 137, 3613.	3.5	76
11	Solid-Phase Microextraction Fiber in Face Mask for <i>in Vivo</i> Sampling and Direct Mass Spectrometry Analysis of Exhaled Breath Aerosol. <i>Analytical Chemistry</i> , 2020, 92, 11543-11547.	6.5	67
12	Rapid characterization of complex viscous samples at molecular levels by neutral desorption extractive electrospray ionization mass spectrometry. <i>Nature Protocols</i> , 2011, 6, 1010-1025.	12.0	66
13	Principle and Application of Ambient Mass Spectrometry for Direct Analysis of Complex Samples. <i>Chinese Journal of Analytical Chemistry</i> , 2010, 38, 1069-1088.	1.7	64
14	Analytical Properties of Solid-substrate Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 57-65.	2.8	64
15	Rapid detection and quantitation of ketamine and norketamine in urine and oral fluid by wooden-tip electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2013, 138, 2239.	3.5	62
16	Extractive Electrospray Ionization Mass Spectrometry for Sensitive Detection of Uranyl Species in Natural Water Samples. <i>Analytical Chemistry</i> , 2010, 82, 282-289.	6.5	61
17	Surface-Modified Wooden-Tip Electrospray Ionization Mass Spectrometry for Enhanced Detection of Analytes in Complex Samples. <i>Analytical Chemistry</i> , 2018, 90, 1759-1766.	6.5	58
18	Electrospray ionization with aluminum foil: A versatile mass spectrometric technique. <i>Analytica Chimica Acta</i> , 2014, 817, 1-8.	5.4	55

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19	SNX10 mediates alcohol-induced liver injury and steatosis by regulating the activation of chaperone-mediated autophagy. <i>Journal of Hepatology</i> , 2018, 69, 129-141.	3.7	54
20	Extractive Electrospray Ionization Mass Spectrometry toward in Situ Analysis without Sample Pretreatment. <i>Analytical Chemistry</i> , 2009, 81, 7724-7731.	6.5	50
21	Rapid identification of plant materials by wooden-tip electrospray ionization mass spectrometry and a strategy to differentiate the bulbs of <i>Fritillaria</i> . <i>Analytica Chimica Acta</i> , 2014, 820, 84-91.	5.4	48
22	Sorting nexin 10 acting as a novel regulator of macrophage polarization mediates inflammatory response in experimental mouse colitis. <i>Scientific Reports</i> , 2016, 6, 20630.	3.3	45
23	In Vivo and Real-time Monitoring of Secondary Metabolites of Living Organisms by Mass Spectrometry. <i>Scientific Reports</i> , 2013, 3, 2104.	3.3	44
24	SNX10 (sorting nexin 10) inhibits colorectal cancer initiation and progression by controlling autophagic degradation of SRC. <i>Autophagy</i> , 2020, 16, 735-749.	9.1	43
25	Imaging Melamine in Egg Samples by Surface Desorption Atmospheric Pressure Chemical Ionization Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2009, 37, 315-318.	1.7	42
26	Preparation and characterization of magnetic nanoparticles for the on-line determination of gold, palladium, and platinum in mine samples based on flow injection micro-column preconcentration coupled with graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 2014, 118, 231-237.	5.5	41
27	Schirmer Paper Noninvasive Microsampling for Direct Mass Spectrometry Analysis of Human Tears. <i>Analytical Chemistry</i> , 2020, 92, 6207-6212.	6.5	39
28	Mass Spectrometry-Based Human Breath Analysis: Towards COVID-19 Diagnosis and Research. <i>Journal of Analysis and Testing</i> , 2021, 5, 287-297.	5.1	38
29	Tracing Origins of Complex Pharmaceutical Preparations Using Surface Desorption Atmospheric Pressure Chemical Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 8060-8070.	6.5	37
30	Thin layer chromatography coupled with electrospray ionization mass spectrometry for direct analysis of raw samples. <i>Journal of Chromatography A</i> , 2015, 1415, 155-160.	3.7	37
31	Direct coupling of solid phase microextraction with electrospray ionization mass spectrometry: A Case study for detection of ketamine in urine. <i>Analytica Chimica Acta</i> , 2019, 1075, 112-119.	5.4	37
32	Sorting nexin 10 acts as a tumor suppressor in tumorigenesis and progression of colorectal cancer through regulating chaperone mediated autophagy degradation of p21Cip1/WAF1. <i>Cancer Letters</i> , 2018, 419, 116-127.	7.2	36
33	Detection of native proteins using solid-substrate electrospray ionization mass spectrometry with nonpolar solvents. <i>Analytica Chimica Acta</i> , 2018, 1004, 51-57.	5.4	35
34	Simple Fabrication of Solid-Phase Microextraction with Surface-Coated Aluminum Foil for Enhanced Detection of Analytes in Biological and Clinical Samples by Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 9430-9434.	6.5	35
35	Geometry-independent neutral desorption device for the sensitive EESI-MS detection of explosives on various surfaces. <i>Analyst</i> , 2010, 135, 779.	3.5	34
36	In situ solid phase microextraction sampling of analytes from living human objects for mass spectrometry analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116368.	11.4	34

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37	Fast quantitative detection of cocaine in beverages using nanoextractive electrospray ionization tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 290-293.	2.8	32
38	Rapid analysis of aerosol drugs using nano extractive electrospray ionization tandem mass spectrometry. <i>Analyst, The</i> , 2010, 135, 1259.	3.5	32
39	Mass spectrometry: towards in vivo analysis of biological systems. <i>Molecular BioSystems</i> , 2013, 9, 915.	2.9	31
40	Nanotechnology-mediated Drug Delivery for the Treatment of Obesity and Its Related Comorbidities. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801184.	7.6	28
41	Cystathionine $\beta$ -lyase deficiency aggravates obesity-related insulin resistance via FoxO1-dependent hepatic gluconeogenesis. <i>FASEB Journal</i> , 2019, 33, 4212-4224.	0.5	28
42	Determination of uranium isotopic ratio ( $^{235}\text{U}/^{238}\text{U}$ ) using extractive electrospray ionization tandem mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2045.	3.0	25
43	Rapid detection and quantitation of drugs-of-abuse by wooden-tip electrospray ionization mass spectrometry. <i>Journal of Food and Drug Analysis</i> , 2019, 27, 428-438.	1.9	25
44	In vivo solid-phase microextraction swab sampling of environmental pollutants and drugs in human body for nano-electrospray ionization mass spectrometry analysis. <i>Analytica Chimica Acta</i> , 2020, 1124, 71-77.	5.4	25
45	Mobility of Proteins in Porous Substrates under Electrospray Ionization Conditions. <i>Analytical Chemistry</i> , 2016, 88, 5585-5589.	6.5	23
46	Molecular signatures between citrus and <i>Candidatus Liberibacter asiaticus</i> . <i>PLoS Pathogens</i> , 2021, 17, e1010071.	4.7	23
47	Paper-in-Facemask Device for Direct Mass Spectrometry Analysis of Human Respiratory Aerosols and Environmental Exposures via Wearable Continuous-Flow Adsorptive Sampling: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2021, 93, 13743-13748.	6.5	22
48	Detection and Seasonal Variations of Huanglongbing Disease in Navel Orange Trees Using Direct Ionization Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2265-2271.	5.2	21
49	Recent advances in facemask devices for in vivo sampling of human exhaled breath aerosols and inhalable environmental exposures. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 151, 116600.	11.4	21
50	Rapid authentication of <i>Gastrodiae</i> rhizoma by direct ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2016, 938, 90-97.	5.4	20
51	Differentiation of human kidney stones induced by melamine and uric acid using surface desorption atmospheric pressure chemical ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2011, 46, 313-319.	1.6	19
52	Rapid detection of adulterated drugs in herbal dietary supplements by wooden-tip electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2016, 8, 6840-6846.	2.7	19
53	Analytical properties of electrospray ionization mass spectrometry with solid substrates and nonpolar solvents. <i>Analytica Chimica Acta</i> , 2019, 1050, 105-112.	5.4	18
54	In vivo solid-phase microextraction swab-mass spectrometry for multidimensional analysis of human saliva. <i>Analytica Chimica Acta</i> , 2021, 1164, 338510.	5.4	18

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55	Hydrogen Sulfide Up-Regulates the Expression of ATP-Binding Cassette Transporter A1 via Promoting Nuclear Translocation of PPAR $\alpha$ . International Journal of Molecular Sciences, 2016, 17, 635.	4.1	17
56	A rare bond between a soft metal (FeI) and a relatively hard base (RO $\hat{=}$ , R = phenolic moiety). Inorganic Chemistry Communication, 2010, 13, 1089-1092.	3.9	16
57	Electrospray Ionization on Solid Substrates. Mass Spectrometry, 2014, 3, S0028-S0028.	0.6	16
58	Analyte $\hat{=}$ substrate interactions at functionalized tip electrospray ionization mass spectrometry: Molecular mechanisms and applications. Journal of Mass Spectrometry, 2018, 53, 1222-1229.	1.6	16
59	Direct detection of native proteins in biological matrices using extractive electrospray ionization mass spectrometry. Analyst, The, 2011, 136, 3599.	3.5	15
60	Global detection and semi $\hat{=}$ quantification of <i>Fritillaria</i> alkaloids in <i>Fritillariae Ussuriensis</i> Bulbus by a non $\hat{=}$ targeted multiple reaction monitoring approach. Journal of Separation Science, 2016, 39, 287-295.	2.5	14
61	Comprehensive comparison of ambient mass spectrometry with desorption electrospray ionization and direct analysis in real time for direct sample analysis. Talanta, 2019, 203, 140-146.	5.5	14
62	Coupling corona discharge for ambient extractive ionization mass spectrometry. Analyst, The, 2011, 136, 4977.	3.5	13
63	Neutral desorption extractive electrospray ionization mass spectrometry for fast screening sunscreen agents in cream cosmetic products. Talanta, 2011, 85, 1665-1671.	5.5	13
64	Fc $\hat{=}$ PIP Catalyzed Asymmetric Synthesis of <i>cis</i> -2,3 $\hat{=}$ Dihydrobenzofurans. Chinese Journal of Chemistry, 2014, 32, 694-698.	4.9	13
65	Electrospray ionization mass spectrometry with wooden tips: A review. Analytica Chimica Acta, 2022, 1209, 339136.	5.4	13
66	Fast Screening of Authentic Ginseng Products by Surface Desorption Atmospheric Pressure Chemical Ionization Mass Spectrometry. Planta Medica, 2013, 79, 169-174.	1.3	12
67	A direct ionization mass spectrometry-based approach for differentiation of medicinal Ephedra species. Journal of Pharmaceutical and Biomedical Analysis, 2016, 117, 492-498.	2.8	11
68	Electrostatic field $\hat{=}$ induced tip $\hat{=}$ electrospray ionization mass spectrometry for direct analysis of raw food materials. Journal of Mass Spectrometry, 2019, 54, 73-80.	1.6	10
69	Vibrating tip spray ionization mass spectrometry for direct sample analysis. Journal of Mass Spectrometry, 2019, 54, 772-779.	1.6	9
70	Rapid detection of pesticides in honey by solid $\hat{=}$ phase micro $\hat{=}$ extraction coupled with electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2020, 55, e4380.	1.6	9
71	Investigating distributions and changes of alkaloids in living <i>Catharanthus roseus</i> under low $\hat{=}$ phosphorus stress using wooden $\hat{=}$ tip electrospray ionisation mass spectrometry. Phytochemical Analysis, 2020, 31, 739-746.	2.4	9
72	TOF $\hat{=}$ SIMS analysis of kidney stones possibly induced by the ingestion of melamine $\hat{=}$ containing milk products. Surface and Interface Analysis, 2011, 43, 313-316.	1.8	8

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73	Solid phase microextraction for human breath analysis of environmental and occupational exposures: A review. <i>Advances in Sample Preparation</i> , 2022, 3, 100023.	3.0	8
74	Rapid differentiation of <i>Ganoderma</i> species by direct ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2018, 999, 99-106.	5.4	7
75	Development of tip-desorption electrospray ionization coupled with ion mobility-mass spectrometry for fast screening of carbapenemase-producing bacteria. <i>Talanta</i> , 2019, 201, 237-244.	5.5	7
76	Direct Detection of Lysozyme in Viscous Raw Hen Egg White Binding to Sodium Dodecyl Sulfonate by Reactive Wooden-tip Electrospray Ionization Mass Spectrometry. <i>Analytical Sciences</i> , 2020, 36, 341-346.	1.6	7
77	Comparative Research of Chemical Profiling in Different Parts of <i>Fissistigma oldhamii</i> by Ultra-High-Performance Liquid Chromatography Coupled with Hybrid Quadrupole-Orbitrap Mass Spectrometry. <i>Molecules</i> , 2021, 26, 960.	3.8	7
78	High-throughput polymer tip electrospray ionization mass spectrometry for enhanced detection of neopterin and biopterin in clinical urine samples. <i>Journal of Mass Spectrometry</i> , 2019, 54, 189-194.	1.6	6
79	Fast-switching high-voltage porous tip electrospray ionization mass spectrometry for rapid detection of antirheumatic drugs in adulterated herbal dietary supplements. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1877-1883.	1.5	5
80	Facile Synthesis of Tetrahydroimidazolpyridinones via an MCR Involving 6-Cl-PMNI, Aldehydes, and Meldrum's Acid. <i>Synthetic Communications</i> , 2011, 41, 1112-1118.	2.1	4
81	Comparative study on a kilowatt-MPT-MS-based method with two ion polarity modes for the inert palladium metal. <i>Analyst</i> , The, 2021, 146, 1760-1771.	3.5	4
82	Schirmer paper tear sampling of human eye diseases for paper spray mass spectrometry analysis. <i>International Journal of Mass Spectrometry</i> , 2021, 469, 116689.	1.5	4
83	Three new flavonoid glycosides from the aerial parts of <i>Allium sativum</i> L. and their anti-platelet aggregation assessment. <i>Natural Product Research</i> , 2022, 36, 5940-5949.	1.8	4
84	Development of a Sonic Spray Ionization Source for the Mass Spectrometric Analysis of Proteins. <i>Chinese Journal of Analytical Chemistry</i> , 2008, 36, 266-272.	1.7	3
85	Development of Thermal Dissociation Atmospheric Chemical Ionization Source for Rapid Mass Spectrometry Analysis of Ambient Samples. <i>Chinese Journal of Analytical Chemistry</i> , 2011, 39, 288-292.	1.7	3
86	Contactless electrospray ionization mass spectrometry for direct detection of analytes in living organisms. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4539.	1.6	3
87	Inside Cover: Sensitive Detection of Native Proteins Using Extractive Electrospray Ionization Mass Spectrometry ( <i>Angew. Chem. Int. Ed.</i> 17/2010). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2950-2950.	13.8	2
88	Principles and applications of solid-substrate electrospray ionization mass spectrometry. <i>Scientia Sinica Chimica</i> , 2017, 47, 1365-1378.	0.4	2
89	Probing the formation of anhydrovinblastine in <i>Catharanthus roseus</i> by single-cell mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2022, 473, 116793.	1.5	2
90	A Sensitive and Accurate Assay for 7-Ethoxycoumarin Deethylase Activity Determination Using Column-Switching High-Performance Liquid Chromatography. , 1991, 1, 199-209.		0

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91	Innentitelbild: Sensitive Detection of Native Proteins Using Extractive Electrospray Ionization Mass Spectrometry (Angew. Chem. 17/2010). <i>Angewandte Chemie</i> , 2010, 122, 3012-3012.	2.0	0