Guangming Huang

List of Publications by Year
in descending order

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70	2,858	186265	175258
papers	citations	28 h-index	52 g-index

72	72	72	3635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Suppression of Protein Structural Perturbations in Native Electrospray Ionization during the Final Evaporation Stages Revealed by Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2022, 126, 144-150.	2.6	6
2	Rapid desalting during electrospray ionization mass spectrometry for investigating protein-ligand interactions in the presence of concentrated salts. Analytica Chimica Acta, 2021, 1141, 120-126.	5.4	8
3	Automatic Registration of the Mass Spectrometry Imaging Data of Sagittal Brain Slices to the Reference Atlas. Journal of the American Society for Mass Spectrometry, 2021, 32, 1789-1797.	2.8	5
4	Metabolomic profiling of single enlarged lysosomes. Nature Methods, 2021, 18, 788-798.	19.0	46
5	Bicarbonate buffers can promote crosslinking and alternative gas-phase dissociation pathways for multiprotein complexes. International Journal of Mass Spectrometry, 2021, 469, 116687.	1.5	1
6	Introducing charge tag via click reaction in living cells for single cell mass spectrometry. Chemical Science, 2020, 11, 7308-7312.	7.4	25
7	Cannabinoids Rescue Cocaine-Induced Seizures by Restoring Brain Glycine Receptor Dysfunction. Cell Reports, 2020, 30, 4209-4219.e7.	6.4	12
8	Protein precipitation coupled to paper spray with a tube for oneâ€step analysis of blood. Rapid Communications in Mass Spectrometry, 2020, 34, e8759.	1.5	5
9	Agarose hydrogel-enhanced paper spray ionization mass spectrometry for metabolite detection in raw urine. Analyst, The, 2020, 145, 2118-2124.	3.5	9
10	Covalent versus Noncovalent Binding of Ruthenium Î· 6 â€•p â€Cymene Complexes to Zincâ€Finger Protein NCp7. Chemistry - A European Journal, 2019, 25, 12789-12794.	3.3	15
11	In situ analysis of unsaturated fatty acids in human serum by negative-ion paper spray mass spectrometry. Analytica Chimica Acta, 2019, 1075, 120-127.	5.4	24
12	Ultrafast Microelectrophoresis: Behind Direct Mass Spectrometry Measurements of Proteins and Metabolites in Living Cell/Cells. Analytical Chemistry, 2019, 91, 10441-10447.	6.5	14
13	Chargeâ€dependent modulation of specific and nonspecific proteinâ€metal ion interactions in nanoelectrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2019, 33, 1502-1511.	1.5	4
14	Reagentâ€free and pHâ€independent degradation of Nâ€nitrosamines using electrons generated via corona discharge at ambient pressure. Journal of Mass Spectrometry, 2019, 54, 141-147.	1.6	1
15	Enhanced Desorption Electrospray Ionization Mass Spectrometry via Synchronizing Ion Generation and Ion Injection. Journal of the American Society for Mass Spectrometry, 2019, 30, 368-375.	2.8	0
16	Highâ€throughput paper spray mass spectrometry via induced voltage. Rapid Communications in Mass Spectrometry, 2019, 33, 392-398.	1.5	6
17	Tetrathiomolybdate induces dimerization of the metal-binding domain of ATPase and inhibits platination of the protein. Nature Communications, 2019, 10, 186.	12.8	34
18	Mass Spectrometry Imaging of Brain Cholesterol and Metabolites with Trifluoroacetic Acid-Enhanced Desorption Electrospray Ionization. Analytical Chemistry, 2019, 91, 2719-2726.	6.5	38

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19	Time-resolved method to distinguish protein/peptide oxidation during electrospray ionization mass spectrometry. Analytica Chimica Acta, 2018, 1011, 59-67.	5.4	8
20	In Situ Living Cell Protein Analysis by Single-Step Mass Spectrometry. Analytical Chemistry, 2018, 90, 3409-3415.	6.5	31
21	A facile approach to improve the spray time and stability of paper spray ionization mass spectrometry with a Teflon tube. Analytical Methods, 2018, 10, 5540-5546.	2.7	12
22	Arsenic trioxide preferentially binds to the ring finger protein PML: understanding target selection of the drug. Metallomics, 2018, 10, 1564-1569.	2.4	17
23	Selective Targeting of the Zinc Finger Domain of HIV Nucleocapsid Protein NCp7 with Ruthenium Complexes. Chemistry - A European Journal, 2018, 24, 19146-19151.	3.3	11
24	Moderate UV Exposure Enhances Learning and Memory by Promoting a Novel Glutamate Biosynthetic Pathway in the Brain. Cell, 2018, 173, 1716-1727.e17.	28.9	142
25	Reliable Tracking In-Solution Protein Unfolding via Ultrafast Thermal Unfolding/Ion Mobility-Mass Spectrometry. Analytical Chemistry, 2018, 90, 7997-8001.	6.5	5
26	Single-neuron identification of chemical constituents, physiological changes, and metabolism using mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2586-2591.	7.1	94
27	Nanocoating cellulose paper based microextraction combined with nanospray mass spectrometry for rapid and facile quantitation of ribonucleosides in human urine. Talanta, 2017, 169, 209-215.	5.5	16
28	The Effect of Salts in Promoting Specific and Competitive Interactions between Zinc Finger Proteins and Metals. Journal of the American Society for Mass Spectrometry, 2017, 28, 2658-2664.	2.8	4
29	Ion suppression effect in desorption electrospray ionization and electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2017, 31, 1957-1962.	1.5	10
30	Unexpected Reduction of Iminoquinone and Quinone Derivatives in Positive Electrospray Ionization Mass Spectrometry and Possible Mechanism Exploration. Journal of the American Society for Mass Spectrometry, 2017, 28, 2454-2461.	2.8	15
31	Insights into the reduction of 4-nitrophenol to 4-aminophenol on catalysts. Chemical Physics Letters, 2017, 684, 148-152.	2.6	112
32	Mechanistic study of CBT-Cys click reaction and its application for identifying bioactive N-terminal cysteine peptides in amniotic fluid. Chemical Science, 2017, 8, 214-222.	7.4	40
33	Antibody modified-silver nanoparticles for colorimetric immuno sensing of AÎ²(1â€“40/1â€“42) based on the interaction between Î²-amyloid and Cu2+. Sensors and Actuators B: Chemical, 2016, 234, 63-69.	7.8	32
34	Binding States of Proteinâ€“Metal Complexes in Cells. Analytical Chemistry, 2016, 88, 10860-10866.	6.5	28
35	Sheathless interface to match flow rate of capillary electrophoresis with electrospray mass spectrometry using regularâ€sized capillary. Rapid Communications in Mass Spectrometry, 2016, 30, 68-72.	1.5	10
36	Fast screening of analytes for chemical reactions by reactive lowâ€temperature plasma ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2015, 29, 1947-1953.	1.5	14

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37	Alleviation of Electrochemical Oxidation for Peptides and Proteins in Electrospray Ionization: Obtaining More Accurate Mass Spectra with Induced High Voltage. Analytical Chemistry, 2015, 87, 2727-2733.	6.5	18
38	Direct sequencing of a disulfide-linked peptide with electrospray ionization tandem mass spectrometry. Analyst, The, 2015, 140, 2623-2627.	3.5	14
39	Humidity independent mass spectrometry for gas phase chemical analysis via ambient proton transfer reaction. Analytica Chimica Acta, 2015, 867, 67-73.	5.4	0
40	Reactive paper spray mass spectrometry for in situ identification of quinones. Rapid Communications in Mass Spectrometry, 2015, 29, 100-106.	1.5	32
41	Increased disulfide peptide sequence coverage via â€œcleavage ON/OFFâ€•switch during nanoelectrospray. RSC Advances, 2014, 4, 59650-59654.	3.6	10
42	Alleviation of ion suppression effect in sonic spray ionization with induced alternating current voltage. Journal of Mass Spectrometry, 2014, 49, 639-645.	1.6	16
43	Reactive intermediate detection in real time via paper assisted thermal ionization mass spectrometry. Analyst, The, 2014, 139, 5354-5357.	3.5	9
44	Screening of Complicated Matrixes with Paper Assisted Ultrasonic Spray Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 935-942.	2.8	9
45	Highly chemiluminescent gold nanopopcorns functionalized by N-(aminobutyl)-N-(ethylisoluminol) with lipoic acid as a co-stabilizing reagent. Journal of Materials Chemistry B, 2013, 1, 970-977.	5.8	10
46	N-(Aminobutyl)-N-(ethylisoluminol) and hemin dual-functionalized graphene hybrids with high chemiluminescence. Chemical Communications, 2013, 49, 9794.	4.1	27
47	Preparation and electrochemiluminescent and photoluminescent properties of a graphene oxide colloid. Carbon, 2013, 56, 201-207.	10.3	15
48	Quenching the Chemiluminescence of Acridinium Ester by Graphene Oxide for Label-Free and Homogeneous DNA Detection. ACS Applied Materials & Interfaces, 2013, 5, 11336-11340.	8.0	56
49	Separation and characterization of sucrose esters from <scp>O</scp>riental tobacco leaves using accelerated solvent extraction followed by <scp>SPE</scp> coupled to <scp>HPLC</scp> with ionâ€trap <scp>MS</scp> detection. Journal of Separation Science, 2013, 36, 2486-2495.	2.5	11
50	Rapid detection of urushiol allergens of Toxicodendron genus using leaf spray mass spectrometry. Analyst, The, 2012, 137, 1082.	3.5	29
51	Gasâ€flow assisted ion transfer for mass spectrometry. Journal of Mass Spectrometry, 2012, 47, 201-207.	1.6	48
52	New ionization methods and miniature mass spectrometers for biomedicine: DESI imaging for cancer diagnostics and paper spray ionization for therapeutic drug monitoring. Faraday Discussions, 2011, 149, 247-267.	3.2	110
53	Synchronized Inductive Desorption Electrospray Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2011, 50, 2503-2506.	13.8	52
54	Induced Nanoelectrospray Ionization for Matrixâ€Tolerant and Highâ€Throughput Mass Spectrometry. Angewandte Chemie - International Edition, 2011, 50, 9907-9910.	13.8	115

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55	Hand-Held Mass Spectrometer for Environmentally Relevant Analytes Using a Variety of Sampling and Ionization Methods. European Journal of Mass Spectrometry, 2010, 16, 11-20.	1.0	23
56	Detection of Explosives as Negative Ions Directly from Surfaces Using a Miniature Mass Spectrometer. Analytical Chemistry, 2010, 82, 5313-5316.	6.5	91
57	Direct detection of benzene, toluene, and ethylbenzene at trace levels in ambient air by atmospheric pressure chemical ionization using a handheld mass spectrometer. Journal of the American Society for Mass Spectrometry, 2010, 21, 132-135.	2.8	84
58	Direct analysis of melamine in complex matrices using a handheld mass spectrometer. Analyst, The, 2010, 135, 705-711.	3.5	96
59	High-throughput trace melamine analysis in complex mixtures. Chemical Communications, 2009, , 556-558.	4.1	141
60	Rapid Screening of Anabolic Steroids in Urine by Reactive Desorption Electrospray Ionization. Analytical Chemistry, 2007, 79, 8327-8332.	6.5	185
61	A novel [Ag(NH₃)₂]⁺ probe for chemiluminescent imaging detection of proteins after polyacrylamide gel electrophoresis. Proteomics, 2007, 7, 2511-2521.	2.2	6
62	Biological and clinical aspects of the vitamin D binding protein (Gc-globulin) and its polymorphism. Clinica Chimica Acta, 2006, 372, 33-42.	1.1	415
63	Vitamin D binding protein, bone status and body composition in community-dwelling elderly men. Bone, 2006, 38, 701-707.	2.9	55
64	Application of carbon nanotube-matrix assistant native polyacrylamide gel electrophoresis to the separation of apolipoprotein A-I and complement C3. Analytica Chimica Acta, 2006, 557, 137-145.	5.4	24
65	Flow-injection with enhanced chemiluminescence detection of ofloxacin in human plasma. Luminescence, 2005, 20, 362-369.	2.9	10
66	Development of an Aerosol Chemiluminescent Detector Coupled to Capillary Electrophoresis for Saccharide Analysis. Analytical Chemistry, 2005, 77, 7356-7365.	6.5	40
67	Chemiluminescent Image Detection of Haptoglobin Phenotyping after Polyacrylamide Gel Electrophoresis. Analytical Chemistry, 2004, 76, 2997-3004.	6.5	32
68	Direct chemiluminescent imaging detection of serum proteins in polyacrylamide gels. Analytica Chimica Acta, 2003, 497, 83-92.	5.4	14
69	Enantiomeric separation of Î²-blockers by HPLC using (R)-1-naphthylglycine and 3,5-dinitrobenzoic acid as chiral stationary phase. Journal of Pharmaceutical and Biomedical Analysis, 2003, 31, 1047-1057.	2.8	31
70	High-performance liquid chromatographic assay of dichlorvos, isocarbophos and methyl parathion from plant leaves using chemiluminescence detection. Analytica Chimica Acta, 2002, 474, 21-29.	5.4	76