

Guangming Huang

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,858
citations

186265

28
h-index

175258

52
g-index

72
all docs

72
docs citations

72
times ranked

3635
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Rapid Screening of Anabolic Steroids in Urine by Reactive Desorption Electrospray Ionization. Analytical Chemistry, 2007, 79, 8327-8332.	6.5	185
3	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
4	High-throughput trace melamine analysis in complex mixtures. Chemical Communications, 2009, , 556-558.	4.1	141
5	Induced Nanoelectrospray Ionization for Matrixâ€Tolerant and Highâ€Throughput Mass Spectrometry. Angewandte Chemie - International Edition, 2011, 50, 9907-9910.	13.8	115
6	Insights into the reduction of 4-nitrophenol to 4-aminophenol on catalysts. Chemical Physics Letters, 2017, 684, 148-152.	2.6	112
7	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
8	Direct analysis of melamine in complex matrices using a handheld mass spectrometer. Analyst, The, 2010, 135, 705-711.	3.5	96
9	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
10	Detection of Explosives as Negative Ions Directly from Surfaces Using a Miniature Mass Spectrometer. Analytical Chemistry, 2010, 82, 5313-5316.	6.5	91
11	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
12	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
13	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
14	Vitamin D binding protein, bone status and body composition in community-dwelling elderly men. Bone, 2006, 38, 701-707.	2.9	55
15	Synchronized Inductive Desorption Electrospray Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2011, 50, 2503-2506.	13.8	52
16	Gasâ€flow assisted ion transfer for mass spectrometry. Journal of Mass Spectrometry, 2012, 47, 201-207.	1.6	48
17	Metabolomic profiling of single enlarged lysosomes. Nature Methods, 2021, 18, 788-798.	19.0	46
18	Development of an Aerosol Chemiluminescent Detector Coupled to Capillary Electrophoresis for Saccharide Analysis. Analytical Chemistry, 2005, 77, 7356-7365.	6.5	40

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19	Mechanistic study of CBT-Cys click reaction and its application for identifying bioactive N-terminal cysteine peptides in amniotic fluid. <i>Chemical Science</i> , 2017, 8, 214-222.	7.4	40
20	Mass Spectrometry Imaging of Brain Cholesterol and Metabolites with Trifluoroacetic Acid-Enhanced Desorption Electrospray Ionization. <i>Analytical Chemistry</i> , 2019, 91, 2719-2726.	6.5	38
21	Tetrathiomolybdate induces dimerization of the metal-binding domain of ATPase and inhibits platination of the protein. <i>Nature Communications</i> , 2019, 10, 186.	12.8	34
22	Chemiluminescent Image Detection of Haptoglobin Phenotyping after Polyacrylamide Gel Electrophoresis. <i>Analytical Chemistry</i> , 2004, 76, 2997-3004.	6.5	32
23	Reactive paper spray mass spectrometry for <i>in situ</i> identification of quinones. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 100-106.	1.5	32
24	Antibody modified-silver nanoparticles for colorimetric immuno sensing of A β (1-40/1-42) based on the interaction between A β -amyloid and Cu ²⁺ . <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 63-69.	7.8	32
25	Enantiomeric separation of A β -blockers by HPLC using (R)-1-naphthylglycine and 3,5-dinitrobenzoic acid as chiral stationary phase. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 31, 1047-1057.	2.8	31
26	In Situ Living Cell Protein Analysis by Single-Step Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 3409-3415.	6.5	31
27	Rapid detection of urushiol allergens of Toxicodendron genus using leaf spray mass spectrometry. <i>Analyst</i> , 2012, 137, 1082.	3.5	29
28	Binding States of Protein-Metal Complexes in Cells. <i>Analytical Chemistry</i> , 2016, 88, 10860-10866.	6.5	28
29	N-(Aminobutyl)-N-(ethylisoluminol) and hemin dual-functionalized graphene hybrids with high chemiluminescence. <i>Chemical Communications</i> , 2013, 49, 9794.	4.1	27
30	Introducing charge tag <i>via</i> click reaction in living cells for single cell mass spectrometry. <i>Chemical Science</i> , 2020, 11, 7308-7312.	7.4	25
31	Application of carbon nanotube-matrix assistant native polyacrylamide gel electrophoresis to the separation of apolipoprotein A-I and complement C3. <i>Analytica Chimica Acta</i> , 2006, 557, 137-145.	5.4	24
32	In situ analysis of unsaturated fatty acids in human serum by negative-ion paper spray mass spectrometry. <i>Analytica Chimica Acta</i> , 2019, 1075, 120-127.	5.4	24
33	Hand-Held Mass Spectrometer for Environmentally Relevant Analytes Using a Variety of Sampling and Ionization Methods. <i>European Journal of Mass Spectrometry</i> , 2010, 16, 11-20.	1.0	23
34	Alleviation of Electrochemical Oxidation for Peptides and Proteins in Electrospray Ionization: Obtaining More Accurate Mass Spectra with Induced High Voltage. <i>Analytical Chemistry</i> , 2015, 87, 2727-2733.	6.5	18
35	Arsenic trioxide preferentially binds to the ring finger protein PML: understanding target selection of the drug. <i>Metallomics</i> , 2018, 10, 1564-1569.	2.4	17
36	Alleviation of ion suppression effect in sonic spray ionization with induced alternating current voltage. <i>Journal of Mass Spectrometry</i> , 2014, 49, 639-645.	1.6	16

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37	Nanocoating cellulose paper based microextraction combined with nanospray mass spectrometry for rapid and facile quantitation of ribonucleosides in human urine. <i>Talanta</i> , 2017, 169, 209-215.	5.5	16
38	Preparation and electrochemiluminescent and photoluminescent properties of a graphene oxide colloid. <i>Carbon</i> , 2013, 56, 201-207.	10.3	15
39	Unexpected Reduction of Iminoquinone and Quinone Derivatives in Positive Electrospray Ionization Mass Spectrometry and Possible Mechanism Exploration. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2454-2461.	2.8	15
40	Covalent versus Noncovalent Binding of Ruthenium π -6 π -Cymene Complexes to Zinc Finger Protein NCp7. <i>Chemistry - A European Journal</i> , 2019, 25, 12789-12794.	3.3	15
41	Direct chemiluminescent imaging detection of serum proteins in polyacrylamide gels. <i>Analytica Chimica Acta</i> , 2003, 497, 83-92.	5.4	14
42	Fast screening of analytes for chemical reactions by reactive low-temperature plasma ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1947-1953.	1.5	14
43	Direct sequencing of a disulfide-linked peptide with electrospray ionization tandem mass spectrometry. <i>Analyst</i> , 2015, 140, 2623-2627.	3.5	14
44	Ultrafast Microelectrophoresis: Behind Direct Mass Spectrometry Measurements of Proteins and Metabolites in Living Cell/Cells. <i>Analytical Chemistry</i> , 2019, 91, 10441-10447.	6.5	14
45	A facile approach to improve the spray time and stability of paper spray ionization mass spectrometry with a Teflon tube. <i>Analytical Methods</i> , 2018, 10, 5540-5546.	2.7	12
46	Cannabinoids Rescue Cocaine-Induced Seizures by Restoring Brain Glycine Receptor Dysfunction. <i>Cell Reports</i> , 2020, 30, 4209-4219.e7.	6.4	12
47	Separation and characterization of sucrose esters from oriental tobacco leaves using accelerated solvent extraction followed by SPE coupled to HPLC with ion-trap MS detection. <i>Journal of Separation Science</i> , 2013, 36, 2486-2495.	2.5	11
48	Selective Targeting of the Zinc Finger Domain of HIV Nucleocapsid Protein NCp7 with Ruthenium Complexes. <i>Chemistry - A European Journal</i> , 2018, 24, 19146-19151.	3.3	11
49	Flow-injection with enhanced chemiluminescence detection of ofloxacin in human plasma. <i>Luminescence</i> , 2005, 20, 362-369.	2.9	10
50	Highly chemiluminescent gold nanopopcorns functionalized by N-(aminobutyl)-N-(ethylisoluminol) with lipoic acid as a co-stabilizing reagent. <i>Journal of Materials Chemistry B</i> , 2013, 1, 970-977.	5.8	10
51	Increased disulfide peptide sequence coverage via α -cleavage ON/OFF-switch during nanoelectrospray. <i>RSC Advances</i> , 2014, 4, 59650-59654.	3.6	10
52	Sheathless interface to match flow rate of capillary electrophoresis with electrospray mass spectrometry using regular-sized capillary. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 68-72.	1.5	10
53	Ion suppression effect in desorption electrospray ionization and electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 1957-1962.	1.5	10
54	Reactive intermediate detection in real time via paper assisted thermal ionization mass spectrometry. <i>Analyst</i> , 2014, 139, 5354-5357.	3.5	9

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55	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
56	Agarose hydrogel-enhanced paper spray ionization mass spectrometry for metabolite detection in raw urine. Analyst, The, 2020, 145, 2118-2124.	3.5	9
57	Time-resolved method to distinguish protein/peptide oxidation during electrospray ionization mass spectrometry. Analytica Chimica Acta, 2018, 1011, 59-67.	5.4	8
58	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
59	A novel $[Ag(NH_3)_2]^+$ probe for chemiluminescent imaging detection of proteins after polyacrylamide gel electrophoresis. Proteomics, 2007, 7, 2511-2521.	2.2	6
60	High-throughput paper spray mass spectrometry via induced voltage. Rapid Communications in Mass Spectrometry, 2019, 33, 392-398.	1.5	6
61	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
62	Reliable Tracking In-Solution Protein Unfolding via Ultrafast Thermal Unfolding/Ion Mobility-Mass Spectrometry. Analytical Chemistry, 2018, 90, 7997-8001.	6.5	5
63	Protein precipitation coupled to paper spray with a tube for one-step analysis of blood. Rapid Communications in Mass Spectrometry, 2020, 34, e8759.	1.5	5
64	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
65	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
66	Charge-dependent modulation of specific and nonspecific protein-metal ion interactions in nanoelectrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2019, 33, 1502-1511.	1.5	4
67	Reagent-free and pH-independent degradation of <i>N</i> -nitrosamines using electrons generated via corona discharge at ambient pressure. Journal of Mass Spectrometry, 2019, 54, 141-147.	1.6	1
68	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
69	Humidity independent mass spectrometry for gas phase chemical analysis via ambient proton transfer reaction. Analytica Chimica Acta, 2015, 867, 67-73.	5.4	0
70	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