Chung-Hsuan Chen

List of Publications by Year
in descending order

53	1,197	394286 19	395590 33
papers	citations	h-index	g-index

55	55	55	1679
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Matrix-assisted laser desorption/ionization (MALDI) mechanism revisited. Analytica Chimica Acta, 2007, 582, 1-9.	2.6	108
2	Review of a current role of mass spectrometry for proteome research. Analytica Chimica Acta, 2008, 624, 16-36.	2.6	100
3	MDM2-mediated degradation of SIRT6 phosphorylated by AKT1 promotes tumorigenesis and trastuzumab resistance in breast cancer. Science Signaling, 2014, 7, ra71.	1.6	90
4	From Polynorbornene to the Complementary Polynorbornene by Replication. Angewandte Chemie - International Edition, 2007, 46, 4481-4485.	7.2	74
5	Matrix-assisted laser desorption/ionization mass spectrometry of polysaccharides with 2â€²,4â€²,6â€²-trihydroxyacetophenone as matrix. Rapid Communications in Mass Spectrometry, 2007, 21, 2137-2146.	0.7	68
6	Charge-Monitoring Laser-Induced Acoustic Desorption Mass Spectrometry for Cell and Microparticle Mass Distribution Measurement. Angewandte Chemie - International Edition, 2007, 46, 3865-3869.	7.2	54
7	Charge Monitoring Cell Mass Spectrometry. Analytical Chemistry, 2008, 80, 2524-2530.	3.2	49
8	Selective killing of cancer cells by nanoparticle-assisted ultrasound. Journal of Nanobiotechnology, 2016, 14, 46.	4.2	48
9	Investigation of the Growth Mechanism of Iron Oxide Nanoparticles via a Seed-Mediated Method and Its Cytotoxicity Studies. Journal of Physical Chemistry C, 2008, 112, 15684-15690.	1.5	47
10	High-Speed Mass Analysis of Whole Erythrocytes by Charge-Detection Quadrupole Ion Trap Mass Spectrometry. Analytical Chemistry, 2007, 79, 7401-7407.	3.2	38
11	Quantitative Measurement of Nanoâ€/Microparticle Endocytosis by Cell Mass Spectrometry. Angewandte Chemie - International Edition, 2010, 49, 3460-3464.	7.2	38
12	Calibration of a frequency-scan quadrupole ion trap mass spectrometer for microparticle mass analysis. International Journal of Mass Spectrometry, 2008, 270, 8-15.	0.7	32
13	Desorption Ionization of Biomolecules on Metals. Analytical Chemistry, 2008, 80, 5203-5210.	3.2	32
14	High accuracy differentiating autoimmune pancreatitis from pancreatic ductal adenocarcinoma by immunoglobulin G glycosylation. Clinical Proteomics, 2019, 16, 1.	1.1	30
15	An aptamer targeting shared tumorâ€specific peptide antigen of MAGEâ€A3 in multiple cancers. International Journal of Cancer, 2016, 138, 918-926.	2.3	25
16	Matrixâ€assisted laser desorption/ionization mechanism study with dihydroxybenzoic acid isomers as matrices. Rapid Communications in Mass Spectrometry, 2008, 22, 130-134.	0.7	21
17	MALDI Ion Trap Mass Spectrometer with Charge Detector for Large Biomolecule Detection. Analytical Chemistry, 2010, 82, 10125-10128.	3.2	21
18	Analysis of Urinary Prostate-Specific Antigen Glycoforms in Samples of Prostate Cancer and Benign Prostate Hyperplasia. Disease Markers, 2016, 2016, 1-12.	0.6	20

#	Article	IF	Citations
19	Observation of peptide differences between cancer and control in gastric juice. Proteomics - Clinical Applications, 2008, 2, 55-62.	0.8	19
20	Electrodeâ€assisted desorption electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2010, 45, 1203-1211.	0.7	18
21	Ultrasound ionization of biomolecules. Rapid Communications in Mass Spectrometry, 2010, 24, 2569-2574.	0.7	18
22	Ionic liquidâ€assisted electrospray ionization of polysaccharides. Journal of Mass Spectrometry, 2011, 46, 367-375.	0.7	18
23	Using CRISPR/Cas9-Mediated GLA Gene Knockout as an In Vitro Drug Screening Model for Fabry Disease. International Journal of Molecular Sciences, 2016, 17, 2089.	1.8	18
24	Rapid Identification of Terminal Sialic Acid Linkage Isomers by Pseudoâ€MS³ Mass Spectrometry. Israel Journal of Chemistry, 2015, 55, 412-422.	1.0	17
25	Frequency-Scanning MALDI Linear Ion Trap Mass Spectrometer for Large Biomolecular Ion Detection. Analytical Chemistry, 2011, 83, 8273-8277.	3.2	15
26	Ran GTPase-Activating Protein 1 Is a Therapeutic Target in Diffuse Large B-Cell Lymphoma. PLoS ONE, 2013, 8, e79863.	1.1	14
27	A deeper look into sonic spray ionization. RSC Advances, 2014, 4, 61290-61297.	1.7	14
28	Kelvin spray ionization. Analyst, The, 2013, 138, 6913.	1.7	12
29	High-Speed Mass Measurement of Nanoparticle and Virus. Analytical Chemistry, 2012, 84, 4965-4969.	3.2	10
30	Sequence-constructive SELEX: A new strategy for screening DNA aptamer binding to Globo H. Biochemical and Biophysical Research Communications, 2014, 452, 484-489.	1.0	9
31	ESI MS for Microsized Bioparticles. Analytical Chemistry, 2017, 89, 13195-13202.	3.2	9
32	Targeted drug delivery using an aptamer against shared tumor-specific peptide antigen of MAGE-A3. Cancer Biology and Therapy, 2021, 22, 12-18.	1.5	9
33	A portable multiple ionization source biological mass spectrometer. Analyst, The, 2020, 145, 3495-3504.	1.7	8
34	Sinapinic acid clusters distribution from monomer to mega Daltonâ€™s region in MALDI process. Chemical Physics Letters, 2013, 561-562, 142-146.	1.2	7
35	Investigation of nonâ€covalent complexations of Ca(II) and Mg(II) ions with insulin by using electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 2171-2182.	0.7	7
36	Quantifying Na(I)-insulin and K(I)-insulin non-covalent complexes by ESIâ€“MS method and calculation of their equilibrium constants. International Journal of Biological Macromolecules, 2017, 103, 910-918.	3.6	6

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37	ESI-MS measurements for the equilibrium constants of copper(II)-insulin complexes. International Journal of Biological Macromolecules, 2018, 112, 188-196.	3.6	5
38	Investigation of manganese(II)-insulin complexes using electrospray ionization mass spectrometry. International Journal of Biological Macromolecules, 2018, 120, 557-565.	3.6	5
39	Macromolecular Ion Accelerator. Analytical Chemistry, 2012, 84, 5765-5769.	3.2	4
40	Novel mass spectrometry technology development for large organic particle analysis. RSC Advances, 2014, 4, 4523-4534.	1.7	4
41	Proteomics-Based Analysis of Protein Complexes in Pluripotent Stem Cells and Cancer Biology. International Journal of Molecular Sciences, 2016, 17, 432.	1.8	4
42	Analysis of Saccharides by the Addition of Amino Acids. Journal of the American Society for Mass Spectrometry, 2016, 27, 1113-1121.	1.2	4
43	Biomolecular Clusters Distribution up to Mega Dalton Region Using MALDI-Quadrupole Ion Trap Mass Spectrometer. International Journal of Molecular Sciences, 2018, 19, 2789.	1.8	4
44	A quadrupole ion trap mass spectrometer for dry microparticle analysis. Analyst, The, 2019, 144, 5608-5616.	1.7	4
45	Comprehensive Workflow for Mapping Disulfide Linkages Including Free Thiols and Error Checking by On-Line UV-Induced Precolumn Reduction and Spiked Control. Analytical Chemistry, 2021, 93, 1544-1552.	3.2	4
46	Unraveling virus identity by detection of depleted probes with capillary electrophoresis. Analytica Chimica Acta, 2012, 734, 88-92.	2.6	3
47	Triboelectric spray ionization. Journal of Mass Spectrometry, 2013, 48, 154-163.	0.7	3
48	A Comparative Study for Sonic Spray and Electrospray Ionization Methods to Determine Noncovalent Proteinâ€“Ligand Interactions. Analytical Letters, 2019, 52, 2620-2633.	1.0	3
49	Macromolecular ion accelerator mass spectrometer. Analyst, The, 2013, 138, 7384.	1.7	2
50	Monitoring Silver(I)â€“Insulin Complexes with Electrospray Ionization Quadrupole Ion Trap Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2021, 32, 1530-1537.	1.2	2
51	Development of a focused high-energy macromolecular ion beam. Analyst, The, 2021, 146, 2936-2944.	1.7	1
52	Portable particle mass spectrometer. Analyst, The, 2022, 147, 2644-2654.	1.7	1
53	Investigation of solvent microparticle formation in spray ionizationâ€“quadrupole ion trapâ€“mass spectrometry. Journal of Mass Spectrometry, 2021, 56, e4785.	0.7	0