

# Chung-Hsuan Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,197  
citations

394421

19  
h-index

395702

33  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1679  
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix-assisted laser desorption/ionization (MALDI) mechanism revisited. <i>Analytica Chimica Acta</i> , 2007, 582, 1-9.	5.4	108
2	Review of a current role of mass spectrometry for proteome research. <i>Analytica Chimica Acta</i> , 2008, 624, 16-36.	5.4	100
3	MDM2-mediated degradation of SIRT6 phosphorylated by AKT1 promotes tumorigenesis and trastuzumab resistance in breast cancer. <i>Science Signaling</i> , 2014, 7, ra71.	3.6	90
4	From Polynorbornene to the Complementary Polynorbornene by Replication. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4481-4485.	13.8	74
5	Matrix-assisted laser desorption/ionization mass spectrometry of polysaccharides with 2,4,6-trihydroxyacetophenone as matrix. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2137-2146.	1.5	68
6	Charge-Monitoring Laser-Induced Acoustic Desorption Mass Spectrometry for Cell and Microparticle Mass Distribution Measurement. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3865-3869.	13.8	54
7	Charge Monitoring Cell Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 2524-2530.	6.5	49
8	Selective killing of cancer cells by nanoparticle-assisted ultrasound. <i>Journal of Nanobiotechnology</i> , 2016, 14, 46.	9.1	48
9	Investigation of the Growth Mechanism of Iron Oxide Nanoparticles via a Seed-Mediated Method and Its Cytotoxicity Studies. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15684-15690.	3.1	47
10	High-Speed Mass Analysis of Whole Erythrocytes by Charge-Detection Quadrupole Ion Trap Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 7401-7407.	6.5	38
11	Quantitative Measurement of Nano-Microparticle Endocytosis by Cell Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3460-3464.	13.8	38
12	Calibration of a frequency-scan quadrupole ion trap mass spectrometer for microparticle mass analysis. <i>International Journal of Mass Spectrometry</i> , 2008, 270, 8-15.	1.5	32
13	Desorption Ionization of Biomolecules on Metals. <i>Analytical Chemistry</i> , 2008, 80, 5203-5210.	6.5	32
14	High accuracy differentiating autoimmune pancreatitis from pancreatic ductal adenocarcinoma by immunoglobulin G glycosylation. <i>Clinical Proteomics</i> , 2019, 16, 1.	2.1	30
15	An aptamer targeting shared tumor-specific peptide antigen of MAGEA3 in multiple cancers. <i>International Journal of Cancer</i> , 2016, 138, 918-926.	5.1	25
16	Matrix-assisted laser desorption/ionization mechanism study with dihydroxybenzoic acid isomers as matrices. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 130-134.	1.5	21
17	MALDI Ion Trap Mass Spectrometer with Charge Detector for Large Biomolecule Detection. <i>Analytical Chemistry</i> , 2010, 82, 10125-10128.	6.5	21
18	Analysis of Urinary Prostate-Specific Antigen Glycoforms in Samples of Prostate Cancer and Benign Prostate Hyperplasia. <i>Disease Markers</i> , 2016, 2016, 1-12.	1.3	20

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19	Observation of peptide differences between cancer and control in gastric juice. <i>Proteomics - Clinical Applications</i> , 2008, 2, 55-62.	1.6	19
20	Electrode-assisted desorption electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2010, 45, 1203-1211.	1.6	18
21	Ultrasound ionization of biomolecules. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2569-2574.	1.5	18
22	Ionic liquid-assisted electrospray ionization of polysaccharides. <i>Journal of Mass Spectrometry</i> , 2011, 46, 367-375.	1.6	18
23	Using CRISPR/Cas9-Mediated GLA Gene Knockout as an In Vitro Drug Screening Model for Fabry Disease. <i>International Journal of Molecular Sciences</i> , 2016, 17, 2089.	4.1	18
24	Rapid Identification of Terminal Sialic Acid Linkage Isomers by Pseudo-MS <sup>3</sup> Mass Spectrometry. <i>Israel Journal of Chemistry</i> , 2015, 55, 412-422.	2.3	17
25	Frequency-Scanning MALDI Linear Ion Trap Mass Spectrometer for Large Biomolecular Ion Detection. <i>Analytical Chemistry</i> , 2011, 83, 8273-8277.	6.5	15
26	Ran GTPase-Activating Protein 1 Is a Therapeutic Target in Diffuse Large B-Cell Lymphoma. <i>PLoS ONE</i> , 2013, 8, e79863.	2.5	14
27	A deeper look into sonic spray ionization. <i>RSC Advances</i> , 2014, 4, 61290-61297.	3.6	14
28	Kelvin spray ionization. <i>Analyst, The</i> , 2013, 138, 6913.	3.5	12
29	High-Speed Mass Measurement of Nanoparticle and Virus. <i>Analytical Chemistry</i> , 2012, 84, 4965-4969.	6.5	10
30	Sequence-constructive SELEX: A new strategy for screening DNA aptamer binding to Globo H. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 484-489.	2.1	9
31	ESI MS for Microsized Bioparticles. <i>Analytical Chemistry</i> , 2017, 89, 13195-13202.	6.5	9
32	Targeted drug delivery using an aptamer against shared tumor-specific peptide antigen of MAGE-A3. <i>Cancer Biology and Therapy</i> , 2021, 22, 12-18.	3.4	9
33	A portable multiple ionization source biological mass spectrometer. <i>Analyst, The</i> , 2020, 145, 3495-3504.	3.5	8
34	Sinapinic acid clusters distribution from monomer to mega Dalton™s region in MALDI process. <i>Chemical Physics Letters</i> , 2013, 561-562, 142-146.	2.6	7
35	Investigation of non-covalent complexations of Ca(II) and Mg(II) ions with insulin by using electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2171-2182.	1.5	7
36	Quantifying Na(I)-insulin and K(I)-insulin non-covalent complexes by ESI-MS method and calculation of their equilibrium constants. <i>International Journal of Biological Macromolecules</i> , 2017, 103, 910-918.	7.5	6

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37	ESI-MS measurements for the equilibrium constants of copper(II)-insulin complexes. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 188-196.	7.5	5
38	Investigation of manganese(II)-insulin complexes using electrospray ionization mass spectrometry. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 557-565.	7.5	5
39	Macromolecular Ion Accelerator. <i>Analytical Chemistry</i> , 2012, 84, 5765-5769.	6.5	4
40	Novel mass spectrometry technology development for large organic particle analysis. <i>RSC Advances</i> , 2014, 4, 4523-4534.	3.6	4
41	Proteomics-Based Analysis of Protein Complexes in Pluripotent Stem Cells and Cancer Biology. <i>International Journal of Molecular Sciences</i> , 2016, 17, 432.	4.1	4
42	Analysis of Saccharides by the Addition of Amino Acids. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1113-1121.	2.8	4
43	Biomolecular Clusters Distribution up to Mega Dalton Region Using MALDI-Quadrupole Ion Trap Mass Spectrometer. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2789.	4.1	4
44	A quadrupole ion trap mass spectrometer for dry microparticle analysis. <i>Analyst, The</i> , 2019, 144, 5608-5616.	3.5	4
45	Comprehensive Workflow for Mapping Disulfide Linkages Including Free Thiols and Error Checking by On-Line UV-Induced Precolumn Reduction and Spiked Control. <i>Analytical Chemistry</i> , 2021, 93, 1544-1552.	6.5	4
46	Unraveling virus identity by detection of depleted probes with capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2012, 734, 88-92.	5.4	3
47	Triboelectric spray ionization. <i>Journal of Mass Spectrometry</i> , 2013, 48, 154-163.	1.6	3
48	A Comparative Study for Sonic Spray and Electrospray Ionization Methods to Determine Noncovalent Protein-Ligand Interactions. <i>Analytical Letters</i> , 2019, 52, 2620-2633.	1.8	3
49	Macromolecular ion accelerator mass spectrometer. <i>Analyst, The</i> , 2013, 138, 7384.	3.5	2
50	Monitoring Silver(I)-Insulin Complexes with Electrospray Ionization Quadrupole Ion Trap Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1530-1537.	2.8	2
51	Development of a focused high-energy macromolecular ion beam. <i>Analyst, The</i> , 2021, 146, 2936-2944.	3.5	1
52	Portable particle mass spectrometer. <i>Analyst, The</i> , 2022, 147, 2644-2654.	3.5	1
53	Investigation of solvent microparticle formation in spray ionization-quadrupole ion trap-mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4785.	1.6	0