

Daiki Asakawa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6872939/publications.pdf>

Version: 2024-02-01

87
papers

1,867
citations

257357

24
h-index

289141

40
g-index

88
all docs

88
docs citations

88
times ranked

1090
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of probe electrospray using a solid needle. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3139-3144.	0.7	282
2	Fundamental aspects of electrospray droplet impact/SIMS. <i>Journal of Mass Spectrometry</i> , 2006, 41, 894-902.	0.7	109
3	Electrosprayed droplet impact/secondary ion mass spectrometry. <i>European Physical Journal D</i> , 2006, 38, 225-229.	0.6	92
4	Characteristics of Probe Electrospray Generated from a Solid Needle. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11164-11170.	1.2	79
5	Application of probe electrospray to direct ambient analysis of biological samples. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2366-2374.	0.7	66
6	Physical properties of the probe electrospray ionization (PESI) needle applied to the biological samples. <i>Journal of Mass Spectrometry</i> , 2009, 44, 978-985.	0.7	59
7	Surfactant protein D suppresses lung cancer progression by downregulation of epidermal growth factor signaling. <i>Oncogene</i> , 2015, 34, 838-845.	2.6	55
8	Bond Cleavage of the Peptide Backbone in MALDI In-Source Decay Using Salicylic Acid Derivative Matrices. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1224-33.	1.2	49
9	Electrospray droplet impact/secondary ion mass spectrometry: cluster ion formation. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2596-2602.	0.7	48
10	Study on ion formation in electrospray droplet impact secondary ion mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1579-1586.	0.7	41
11	Selected Protein Monitoring in Histological Sections by Targeted MALDI-FTICR In-Source Decay Imaging. <i>Analytical Chemistry</i> , 2013, 85, 2117-2126.	3.2	38
12	Ultraviolet Laser Induced Hydrogen Transfer Reaction: Study of the First Step of MALDI In-Source Decay Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2321-2327.	1.2	36
13	Structural Analysis of Phospholipid Using Hydrogen Abstraction Dissociation and Oxygen Attachment Dissociation in Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 7230-7238.	3.2	35
14	Discrimination of Isobaric Leu/Ile Residues by MALDI In-Source Decay Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 297-300.	1.2	33
15	Principles of hydrogen radical mediated peptide/protein fragmentation during matrix-assisted laser desorption/ionization mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2016, 35, 535-556.	2.8	33
16	A comparison of EDI with solvent-free MALDI and LDI for the analysis of organic pigments. <i>Journal of Mass Spectrometry</i> , 2008, 43, 436-446.	0.7	32
17	XPS depth profiling of polystyrene etched by electrospray droplet impact. <i>Surface and Interface Analysis</i> , 2010, 42, 658-661.	0.8	31
18	Shallow surface etching of organic and inorganic compounds by electrospray droplet impact. <i>Applied Surface Science</i> , 2009, 255, 8947-8952.	3.1	30

#	ARTICLE	IF	CITATIONS
19	MALDI In-Source Decay, from Sequencing to Imaging. Topics in Current Chemistry, 2012, 331, 117-141.	4.0	28
20	In-Source Decay during Matrix-Assisted Laser Desorption/Ionization Combined with the Collisional Process in an FTICR Mass Spectrometer. Analytical Chemistry, 2013, 85, 7809-7817.	3.2	26
21	Energy dependence of projectiles on ion formation in electrospray droplet impact SIMS. Applied Surface Science, 2008, 255, 1217-1222.	3.1	25
22	Specific cleavage at peptide backbone C _α -C and CO-N bonds during matrix-assisted laser desorption/ionization in-source decay mass spectrometry with 5-nitrosalicylic acid as the matrix. Rapid Communications in Mass Spectrometry, 2011, 25, 2379-2383.	0.7	25
23	Fragmentation Processes of Hydrogen-Deficient Peptide Radicals in Matrix-Assisted Laser Desorption/Ionization In-Source Decay Mass Spectrometry. Journal of Physical Chemistry B, 2012, 116, 4016-4023.	1.2	24
24	New Approach for Pseudo-MS ³ Analysis of Peptides and Proteins via MALDI In-Source Decay Using Radical Recombination with 1,5-Diaminonaphthalene. Analytical Chemistry, 2014, 86, 2451-2457.	3.2	24
25	X-ray photoelectron spectroscopy analysis of organic materials etched by charged water droplet impact. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 743-747.	0.9	23
26	Surface characterization of polymethylmetacrylate bombarded by charged water droplets. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 748-753.	0.9	22
27	The analysis of industrial synthetic polymers by electrospray droplet impact/secondary ion mass spectrometry. Journal of Mass Spectrometry, 2009, 44, 945-951.	0.7	21
28	Study of the desorption/ionization mechanism in electrospray droplet impact secondary ion mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 655-660.	0.7	21
29	Peptide backbone fragmentation initiated by side-chain loss at cysteine residue in matrix-assisted laser desorption/ionization in-source decay mass spectrometry. Journal of Mass Spectrometry, 2013, 48, 352-360.	0.7	21
30	Mass spectrometric characterization of phosphorylated peptides using MALDI in-source decay via redox reactions. Journal of Mass Spectrometry, 2012, 47, 180-187.	0.7	19
31	Identification and Relative-Quantification of Glycans by Matrix-Assisted Laser Desorption/Ionization In-Source Decay with Hydrogen Abstraction. Analytical Chemistry, 2012, 84, 7463-7468.	3.2	18
32	Influence of initial velocity of analytes on in-source decay products in MALDI mass spectrometry using salicylic acid derivative matrices. International Journal of Mass Spectrometry, 2013, 337, 29-33.	0.7	17
33	Influences of Proline and Cysteine Residues on Fragment Yield in Matrix-Assisted Laser Desorption/Ionization In-Source Decay Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 1040-1048.	1.2	17
34	Study on the redox reactions for organic dyes and <i>S</i> -nitrosylated peptide in electrospray droplet impact. Journal of Mass Spectrometry, 2009, 44, 461-465.	0.7	15
35	Matrix-assisted laser desorption/ionization mass spectrometry using a visible laser. Rapid Communications in Mass Spectrometry, 2007, 21, 4129-4134.	0.7	14
36	Electron Transfer Dissociation Mass Spectrometry of Peptides Containing Free Cysteine Using Group XII Metals as a Charge Carrier. Journal of Physical Chemistry B, 2014, 118, 12318-12325.	1.2	14

#	ARTICLE	IF	CITATIONS
37	De Novo Sequencing of Tryptic Phosphopeptides Using Matrix-Assisted Laser Desorption/Ionization Based Tandem Mass Spectrometry with Hydrogen Atom Attachment. <i>Analytical Chemistry</i> , 2018, 90, 2701-2707.	3.2	14
38	Influence of Metal-Peptide Complexation on Fragmentation and Inter-Fragment Hydrogen Migration in Electron Transfer Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1029-1039.	1.2	13
39	Fundamental study of hydrogen-attachment-induced peptide fragmentation occurring in the gas phase and during the matrix-assisted laser desorption/ionization process. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13057-13067.	1.3	13
40	Sequencing of Sulfopeptides Using Negative-Ion Tandem Mass Spectrometry with Hydrogen Attachment/Abstraction Dissociation. <i>Analytical Chemistry</i> , 2019, 91, 10549-10556.	3.2	13
41	In-Source Fragmentation of Phenethylamines by Electrospray Ionization Mass Spectrometry: Toward Highly Sensitive Quantitative Analysis of Monoamine Neurotransmitters. <i>Analytical Chemistry</i> , 2020, 92, 12033-12039.	3.2	13
42	Negative-mode MALDI mass spectrometry for the analysis of pigments using tetrathiafulvalene as a matrix. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1494-1501.	0.7	11
43	Direct analysis of lipids in mouse brain using electrospray droplet impact/SIMS. <i>Journal of Mass Spectrometry</i> , 2010, 45, 437-443.	0.7	11
44	Direct profiling of saccharides, organic acids and anthocyanins in fruits using electrospray droplet impact/secondary ion mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2431-2438.	0.7	11
45	Influence of Amino Acid Composition and Phosphorylation on the Ion Yields of Peptides in MALDI-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 108-115.	1.2	11
46	Estimation of useful yields for electrospray droplet impact/secondary ion mass spectrometry (EDI/SIMS). <i>Surface and Interface Analysis</i> , 2013, 45, 968-972.	0.8	11
47	High-Confidence Sequencing of Phosphopeptides by Electron Transfer Dissociation Mass Spectrometry Using Dinuclear Zinc(II) Complex. <i>Analytical Chemistry</i> , 2016, 88, 12393-12402.	3.2	11
48	Study of Substituted Phenethylamine Fragmentation Induced by Electrospray Ionization Mass Spectrometry and Its Application for Highly Sensitive Analysis of Neurotransmitters in Biological Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2144-2152.	1.2	11
49	C^{\pm} Bond Cleavage of Zinc-Polyhistidine Complexes in Electron Transfer Dissociation Mediated by Zwitterion Formation: Experimental Evidence and Theoretical Analysis of the Utah-Washington Model. <i>Journal of Physical Chemistry B</i> , 2016, 120, 891-901.	1.2	10
50	Gas-Phase Stability of Negatively Charged Organophosphate Metabolites Produced by Electrospray Ionization and Matrix-Assisted Laser Desorption/Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2561-2568.	1.2	10
51	Hydrogen atom attachment to histidine and tryptophan containing peptides in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11633-11641.	1.3	10
52	Determination of Dynamic Ranges for Quantitative Analysis Using Electrospray Droplet Impact Ionization and Matrix-Assisted Laser Desorption Ionization. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2009, 57, 81-87.	0.0	10
53	Estimation of peptide C^{\pm} bond cleavage efficiency during MALDI-MSD using a cyclic peptide. <i>Journal of Mass Spectrometry</i> , 2016, 51, 323-327.	0.7	9
54	Difference of Electron Capture and Transfer Dissociation Mass Spectrometry on Ni^{2+} , Cu^{2+} , and Zn^{2+} -Polyhistidine Complexes in the Absence of Remote Protons. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1165-1175.	1.2	9

#	ARTICLE	IF	CITATIONS
55	Fragmentation study of tryptophan-derived metabolites induced by electrospray ionization mass spectrometry for highly sensitive analysis. <i>Analyst</i> , The, 2021, 146, 2292-2300.	1.7	9
56	Surface characterization and depth profiling of biological molecules by electrospray droplet impact/SIMS. <i>Surface and Interface Analysis</i> , 2012, 44, 227-231.	0.8	8
57	Real-time monitoring for reforming processes of liquid hydrocarbon fuel-air pre-mixtures by non-thermal plasmas using ion attachment mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1082-1090.	1.3	8
58	General Mechanism of C ¹³ Peptide Backbone Bond Cleavage in Matrix-Assisted Laser Desorption/Ionization In-Source Decay Mediated by Hydrogen Abstraction. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1491-1502.	1.2	8
59	Hydrogen attachment dissociation of peptides containing disulfide bonds. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26049-26057.	1.3	8
60	Direct and Real-Time Surface Analysis and Imaging of Biological Samples by Probe Electrospray. <i>Journal of Surface Analysis (Online)</i> , 2009, 15, 279-282.	0.1	8
61	5-Nitrosalicylic Acid as a Novel Matrix for In-Source Decay in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Mass Spectrometry</i> , 2013, 2, A0019-A0019.	0.2	7
62	Rapid chiral discrimination of oncometabolite dl-2-hydroxyglutaric acid using derivatization and field asymmetric waveform ion mobility spectrometry/mass spectrometry. <i>Journal of Separation Science</i> , 2021, 44, 3489-3496.	1.3	7
63	Matrix Effect on In-Source Decay Products of Peptides in Matrix-Assisted Laser Desorption/Ionization. <i>Mass Spectrometry</i> , 2012, 1, A0002-A0002.	0.2	6
64	Flame Propagation Enhancement by Dielectric Barrier Discharge-Generated Intermediate Species. <i>Combustion Science and Technology</i> , 2019, 191, 1972-1989.	1.2	6
65	Depth Profiling of Polystyrene Using Charged Water Droplet Impact. <i>Journal of Surface Analysis (Online)</i> , 2009, 15, 283-286.	0.1	6
66	Gas-phase ion/molecule reactions in C ₂ F ₄ . <i>International Journal of Mass Spectrometry</i> , 2008, 272, 22-28.	0.7	5
67	Ultraviolet-Laser-Induced Electron Transfer from Peptides to an Oxidizing Matrix: Study of the First Step of MALDI In-Source Decay Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1918-1926.	1.2	5
68	Coordination of alkali metal ions to model branched hexasaccharides dictates fragment yield in MALDI in-source decay with hydrogen abstraction using 5-nitrosalicylic acid as the matrix. <i>Journal of Mass Spectrometry</i> , 2014, 49, 1059-1062.	0.7	4
69	Gas-Phase Peptide Fragmentation Induced by Hydrogen Attachment, from Principle to Sequencing of Amide Nitrogen-Methylated Peptides. <i>Analytical Chemistry</i> , 2020, 92, 15773-15780.	3.2	4
70	Mass Spectrometric Characterization of the Partial Oxidation Process of a Gasoline Surrogate Induced by a Dielectric Barrier Discharge. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2019-2028.	1.1	4
71	Fragmentation efficiency of phenethylamines in electrospray ionization source estimated by theoretical chemistry calculation. <i>Journal of Mass Spectrometry</i> , 2022, 57, e4802.	0.7	4
72	Experimental and Theoretical Investigation of MALDI In-Source Decay of Peptides with a Reducing Matrix: What Is the Initial Fragmentation Step?. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1011-1021.	1.2	4

#	ARTICLE	IF	CITATIONS
73	Detection of peptides in high concentration of salts by electrospray droplet impact/secondary ion mass spectrometry. <i>Surface and Interface Analysis</i> , 2011, 43, 1341-1345.	0.8	3
74	Direct MALDI-MS analysis of the disulfide bonds in peptide using thiosalicylic acid as a reactive matrix. <i>Journal of Mass Spectrometry</i> , 2017, 52, 127-131.	0.7	3
75	Influence of the metals and ligands in dinuclear complexes on phosphopeptide sequencing by electron-transfer dissociation tandem mass spectrometry. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26597-26607.	1.3	3
76	Characterization of Polyethers Using Tandem Mass Spectrometry with Hydrogen Abstraction Dissociation and Thermal Activation. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 450-457.	1.2	3
77	Hot Hydrogen Atom Irradiation of Protonated/Deprotonated Peptide in an Ion Trap Facilitates Fragmentation through Heated Radical Formation. <i>Journal of the American Chemical Society</i> , 2022, 144, 3020-3028.	6.6	3
78	Cooperative dissociation of peptide backbones and side-chains during matrix-assisted laser desorption/ionization in-source decay mediated by hydrogen abstraction. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4530.	0.7	2
79	Analysis of Insoluble Organic Pigments by Desorption/Ionization Mass Spectrometry. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2009, 57, 15-22.	0.0	2
80	Identifying Double Bond Positions in Phospholipids Using Liquid Chromatography-Triple Quadrupole Tandem Mass Spectrometry Based on Oxygen Attachment Dissociation. <i>Mass Spectrometry</i> , 2020, 8, S0080-S0080.	0.2	2
81	Peptide backbone fragmentation initiated by side-chain loss at cysteine residue in matrix-assisted laser desorption/ionization in-source decay mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2013, 48, i-i.	0.7	1
82	Investigation of the Knocking Intensity Mitigation Mechanism by Dielectric Barrier Discharge. <i>International Journal of Automotive Engineering</i> , 2020, 11, 75-82.	0.3	1
83	Desorption/Ionization Mechanism in Electrospray Droplet Impact. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2011, 59, 95-105.	0.0	0
84	Developments in Matrix Molecules for MALDI-MS Mass Spectrometry. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2016, 64, 187-190.	0.0	0
85	Investigation of Electron Transfer Dissociation Processes Using Metal-Peptide Complexes as the Probe. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2017, 65, 264-267.	0.0	0
86	Positive Ion/Molecule Reactions in Tetrafluoroethylene. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2005, 53, 315-317.	0.0	0
87	ARE PREBIOTIC MOLECULES PRESERVED IN THE SUPERSONIC COLLISION OF ICE PARTICLES?. , 2009, , 169-179.		0