

Young Jin Lee

List of Publications by Year in descending order

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102
papers

4,773
citations

87888

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h-index

102487

66
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104
all docs

104
docs citations

104
times ranked

5913
citing authors

#	ARTICLE	IF	CITATIONS
1	FLOWERING LOCUS T Protein May Act as the Long-Distance Florigenic Signal in the Cucurbits. <i>Plant Cell</i> , 2007, 19, 1488-1506.	6.6	420
2	Formation of phenolic oligomers during fast pyrolysis of lignin. <i>Fuel</i> , 2014, 128, 170-179.	6.4	199
3	Use of mass spectrometry for imaging metabolites in plants. <i>Plant Journal</i> , 2012, 70, 81-95.	5.7	193
4	Analysis of the Pumpkin Phloem Proteome Provides Insights into Angiosperm Sieve Tube Function. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 343-356.	3.8	190
5	Human Proteinpedia enables sharing of human protein data. <i>Nature Biotechnology</i> , 2008, 26, 164-167.	17.5	155
6	Structural Transitions of Electrosprayed Ubiquitin Ions Stored in an Ion Trap over ~ 10 ms to 30 s. <i>Journal of Physical Chemistry A</i> , 2002, 106, 9976-9982.	2.5	149
7	High-Spatial and High-Mass Resolution Imaging of Surface Metabolites of <i>Arabidopsis thaliana</i> by Laser Desorption-Ionization Mass Spectrometry Using Colloidal Silver. <i>Analytical Chemistry</i> , 2010, 82, 3255-3265.	6.5	145
8	Proteome Analysis of Human Hair Shaft. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 789-800.	3.8	121
9	Matrix assisted laser desorption/ionization-mass spectrometry imaging (MALDI-MSI) for direct visualization of plant metabolites in situ. <i>Current Opinion in Biotechnology</i> , 2016, 37, 53-60.	6.6	117
10	Spatial Mapping of Lipids at Cellular Resolution in Embryos of Cotton. <i>Plant Cell</i> , 2012, 24, 622-636.	6.6	114
11	Subcellular-level resolution MALDI-MS imaging of maize leaf metabolites by MALDI-linear ion trap-Orbitrap mass spectrometer. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2301-2309.	3.7	113
12	Development of High-Sensitivity Ion Trap Ion Mobility Spectrometry Time-of-Flight Techniques: A High-Throughput Nano-LC-IMS-TOF Separation of Peptides Arising from a <i>Drosophila</i> Protein Extract. <i>Analytical Chemistry</i> , 2003, 75, 5137-5145.	6.5	111
13	Crystal Structure of the Membrane Fusion Protein CusB from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2009, 393, 342-355.	4.2	111
14	Bio-oil Analysis Using Negative Electrospray Ionization: Comparative Study of High-Resolution Mass Spectrometers and Phenolic versus Sugaric Components. <i>Energy & Fuels</i> , 2012, 26, 3796-3802.	5.1	95
15	3D MALDI Mass Spectrometry Imaging of a Single Cell: Spatial Mapping of Lipids in the Embryonic Development of Zebrafish. <i>Scientific Reports</i> , 2017, 7, 14946.	3.3	94
16	The citrus fruit proteome: insights into citrus fruit metabolism. <i>Planta</i> , 2007, 226, 989-1005.	3.2	93
17	Petroleomic Analysis of Bio-oils from the Fast Pyrolysis of Biomass: Laser Desorption Ionization-Linear Ion Trap-Orbitrap Mass Spectrometry Approach. <i>Energy & Fuels</i> , 2010, 24, 5190-5198.	5.1	82
18	Large Scale Nanoparticle Screening for Small Molecule Analysis in Laser Desorption Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 8926-8930.	6.5	82

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19	Extracellular glycosylphosphatidylinositol-anchored mannoproteins and proteases of <i>Cryptococcus neoformans</i> . <i>FEMS Yeast Research</i> , 2007, 7, 499-510.	2.3	75
20	Mass spectrometric analysis of cross-linking sites for the structure of proteins and protein complexes. <i>Molecular BioSystems</i> , 2008, 4, 816.	2.9	74
21	Imaging MS Methodology for More Chemical Information in Less Data Acquisition Time Utilizing a Hybrid Linear Ion Trap [™] Orbitrap Mass Spectrometer. <i>Analytical Chemistry</i> , 2010, 82, 9393-9400.	6.5	72
22	Five Micron High Resolution MALDI Mass Spectrometry Imaging with Simple, Interchangeable, Multi-Resolution Optical System. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 434-442.	2.8	70
23	Coupling Ion Mobility Separations, Collisional Activation Techniques, and Multiple Stages of MS for Analysis of Complex Peptide Mixtures. <i>Analytical Chemistry</i> , 2002, 74, 992-1006.	6.5	64
24	Investigation of the Chemical Interface in the Soybean [™] Aphid and Rice [™] Bacteria Interactions Using MALDI-Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2015, 87, 5294-5301.	6.5	61
25	MALDI [™] MS analysis and imaging of small molecule metabolites with 1,5 [™] -diaminonaphthalene (DAN). <i>Journal of Mass Spectrometry</i> , 2014, 49, 737-741.	1.6	59
26	Multiplex mass spectrometry imaging for latent fingerprints. <i>Journal of Mass Spectrometry</i> , 2013, 48, 100-104.	1.6	58
27	Shotgun Cross-Linking Analysis for Studying Quaternary and Tertiary Protein Structures. <i>Journal of Proteome Research</i> , 2007, 6, 3908-3917.	3.7	56
28	High [™] Spatial Resolution Mass Spectrometry Imaging: Toward Single Cell Metabolomics in Plant Tissues. <i>Chemical Record</i> , 2018, 18, 65-77.	5.8	54
29	High spatial resolution mass spectrometry imaging reveals the genetically programmed, developmental modification of the distribution of thylakoid membrane lipids among individual cells of maize leaf. <i>Plant Journal</i> , 2017, 89, 825-838.	5.7	52
30	Spatial Mapping and Profiling of Metabolite Distributions during Germination. <i>Plant Physiology</i> , 2017, 174, 2532-2548.	4.8	50
31	Intravenous Immunoglobulin Prevents Murine Antibody-Mediated Acute Lung Injury at the Level of Neutrophil Reactive Oxygen Species (ROS) Production. <i>PLoS ONE</i> , 2012, 7, e31357.	2.5	50
32	Toward Mass Spectrometry Imaging in the Metabolomics Scale: Increasing Metabolic Coverage Through Multiple On-Tissue Chemical Modifications. <i>Frontiers in Plant Science</i> , 2019, 10, 860.	3.6	49
33	Bifunctional Adsorbent-Catalytic Nanoparticles for the Refining of Renewable Feedstocks. <i>ACS Catalysis</i> , 2013, 3, 2750-2758.	11.2	47
34	Determining Fingerprint Age with Mass Spectrometry Imaging via Ozonolysis of Triacylglycerols. <i>Analytical Chemistry</i> , 2020, 92, 3125-3132.	6.5	45
35	Changes in prion replication environment cause prion strain mutation. <i>FASEB Journal</i> , 2013, 27, 3702-3710.	0.5	42
36	Transcriptional and Chemical Changes in Soybean Leaves in Response to Long-Term Aphid Colonization. <i>Frontiers in Plant Science</i> , 2019, 10, 310.	3.6	42

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37	Pumpkin eIF5A isoforms interact with components of the translational machinery in the cucurbit sieve tube system. <i>Plant Journal</i> , 2010, 64, 536-550.	5.7	41
38	Collision-Induced Dissociation of Mobility-Separated Ions Using an Orifice-Skimmer Cone at the Back of a Drift Tube. <i>Analytical Chemistry</i> , 2001, 73, 3549-3555.	6.5	39
39	High-Resolution Mass Spectrometric Characterization of Molecules on Biochar from Pyrolysis and Gasification of Switchgrass. <i>Energy & Fuels</i> , 2012, 26, 3803-3809.	5.1	39
40	The cellular form of the prion protein is involved in controlling cell cycle dynamics, self-renewal, and the fate of human embryonic stem cell differentiation. <i>Journal of Neurochemistry</i> , 2013, 124, 310-322.	3.9	39
41	Matrix Recrystallization for MALDI-MS Imaging of Maize Lipids at High-Spatial Resolution. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1575-1578.	2.8	36
42	Three-dimensional visualization of membrane phospholipid distributions in <i>Arabidopsis thaliana</i> seeds: A spatial perspective of molecular heterogeneity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 268-281.	2.4	36
43	Multi-matrix, dual polarity, tandem mass spectrometry imaging strategy applied to a germinated maize seed: toward mass spectrometry imaging of an untargeted metabolome. <i>Analyst, The</i> , 2015, 140, 7293-7304.	3.5	35
44	Molecular characterization of nitrogen-containing species in switchgrass bio-oils at various harvest times. <i>Fuel</i> , 2013, 111, 718-726.	6.4	33
45	Sputter-Coated Metal Screening for Small Molecule Analysis and High-Spatial Resolution Imaging in Laser Desorption Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 299-308.	2.8	33
46	Founder Mutations in the Lipase H Gene in Families with Autosomal Recessive Woolly Hair/Hypotrichosis. <i>Journal of Investigative Dermatology</i> , 2009, 129, 1927-1934.	0.7	31
47	Development of high-throughput liquid chromatography injected ion mobility quadrupole time-of-flight techniques for analysis of complex peptide mixtures. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 782, 343-351.	2.3	29
48	Development of Field Modulation in a Split-Field Drift Tube for High-Throughput Multidimensional Separations. <i>Journal of Proteome Research</i> , 2005, 4, 25-35.	3.7	29
49	Distinctive Repertoire of Contingency Genes Conferring Mutation- Based Phase Variation and Combinatorial Expression of Surface Lipoproteins in <i>Mycoplasma capricolum</i> subsp. <i>capricolum</i> of the <i>Mycoplasma mycoides</i> Phylogenetic Cluster. <i>Journal of Bacteriology</i> , 2006, 188, 4926-4941.	2.2	29
50	Treatment with normal prion protein delays differentiation and helps to maintain high proliferation activity in human embryonic stem cells. <i>Journal of Neurochemistry</i> , 2010, 114, 362-373.	3.9	29
51	Distinguishing Mouse Strains by Proteomic Analysis of Pelage Hair. <i>Journal of Investigative Dermatology</i> , 2009, 129, 2120-2125.	0.7	28
52	Overlapping MALDI-Mass Spectrometry Imaging for In-Parallel MS and MS/MS Data Acquisition without Sacrificing Spatial Resolution. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1910-1918.	2.8	28
53	Revealing Individual Lifestyles through Mass Spectrometry Imaging of Chemical Compounds in Fingerprints. <i>Scientific Reports</i> , 2018, 8, 5149.	3.3	28
54	Core of the partner switching signalling mechanism is conserved in the obligate intracellular pathogen <i>Chlamydia trachomatis</i> . <i>Molecular Microbiology</i> , 2006, 59, 623-636.	2.5	27

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55	Multiplex Mass Spectrometric Imaging with Polarity Switching for Concurrent Acquisition of Positive and Negative Ion Images. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 949-955.	2.8	27
56	Analytical Methods for Chemical and Sensory Characterization of Scent-Markings in Large Wild Mammals: A Review. <i>Sensors</i> , 2014, 14, 4428-4465.	3.8	27
57	The cellular form of the prion protein guides the differentiation of human embryonic stem cells into neuron-, oligodendrocyte-, and astrocyte-committed lineages. <i>Prion</i> , 2014, 8, 266-275.	1.8	27
58	Association of intracranial aneurysms and meningiomas: a case-control study. <i>Journal of Neurosurgery</i> , 2015, 123, 357-361.	1.6	26
59	Understanding Low-Pressure Hydrolysis of Lignin Using Deuterated Sodium Formate. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8939-8950.	6.7	25
60	Effect of Aging and Surface Interactions on the Diffusion of Endogenous Compounds in Latent Fingerprints Studied by Mass Spectrometry Imaging. <i>Journal of Forensic Sciences</i> , 2018, 63, 708-713.	1.6	25
61	Identification of proteins adducted by reactive metabolites of naphthalene and 1-nitronaphthalene in dissected airways of rhesus macaques. <i>Proteomics</i> , 2006, 6, 972-982.	2.2	24
62	Formation of c1 fragment ions in collision-induced dissociation of glutamine-containing peptide ions: a tip for de novo sequencing. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2069-2076.	1.5	21
63	Visualizing Genotypic and Developmental Differences of Free Amino Acids in Maize Roots With Mass Spectrometry Imaging. <i>Frontiers in Plant Science</i> , 2020, 11, 639.	3.6	21
64	Organic-inorganic binary mixture matrix for comprehensive laser-desorption ionization mass spectrometric analysis and imaging of medium-size molecules including phospholipids, glycerolipids, and oligosaccharides. <i>RSC Advances</i> , 2016, 6, 99260-99268.	3.6	20
65	In situ probing of cholesterol in astrocytes at the single-cell level using laser desorption ionization mass spectrometric imaging with colloidal silver. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1147-1154.	1.5	19
66	Mass spectrometric imaging as a high-spatial resolution tool for functional genomics: Tissue-specific gene expression of TT7 inferred from heterogeneous distribution of metabolites in Arabidopsis flowers. <i>Analytical Methods</i> , 2012, 4, 474-481.	2.7	19
67	Evaluation of Primary Reaction Pathways in Thin-Film Pyrolysis of Glucose Using ¹³ C Labeling and Real-Time Monitoring. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8796-8803.	6.7	19
68	Petroleomic Characterization of Bio-Oil Aging using Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 811-814.	1.9	19
69	Effective evaluation of catalytic deoxygenation for in situ catalytic fast pyrolysis using gas chromatography-high resolution mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 112, 129-134.	5.5	17
70	Sample Preparation of Corn Seed Tissue to Prevent Analyte Relocations for Mass Spectrometry Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1729-1732.	2.8	17
71	Association of Increased Hair Calcium Levels and Enhanced Augmentation Index (AIx): a Marker of Arterial Stiffness. <i>Biological Trace Element Research</i> , 2010, 138, 90-98.	3.5	13
72	High-Throughput Analysis of Algal Crude Oils Using High Resolution Mass Spectrometry. <i>Lipids</i> , 2013, 48, 297-305.	1.7	13

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73	<scp>FERONIA</scp> mutation induces high levels of chloroplast-localized Arabidopsides which are involved in root growth. <i>Plant Journal</i> , 2019, 97, 341-351.	5.7	13
74	Potential of triacylglycerol profiles in latent fingerprints to reveal individual diet, exercise, or health information for forensic evidence. <i>Analytical Methods</i> , 2020, 12, 792-798.	2.7	13
75	Multiplex MALDI-MS Imaging of Plant Metabolites Using a Hybrid MS System. <i>Methods in Molecular Biology</i> , 2015, 1203, 49-62.	0.9	13
76	Chemical Imaging of Cyanoacrylate-Fumed Fingerprints by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. <i>Journal of Forensic Sciences</i> , 2018, 63, 1854-1857.	1.6	12
77	Characterizing virus-induced gene silencing at the cellular level with in situ multimodal imaging. <i>Plant Methods</i> , 2018, 14, 37.	4.3	12
78	Probability-based shotgun cross-linking sites analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1896-1899.	2.8	11
79	Cellular and Subcellular Level Localization of Maize Lipids and Metabolites Using High-Spatial Resolution MALDI Mass Spectrometry Imaging. <i>Methods in Molecular Biology</i> , 2018, 1676, 217-231.	0.9	11
80	Single-Cell Metabolomics by Mass Spectrometry Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1280, 69-82.	1.6	11
81	Gas Chromatography-Tandem Mass Spectrometry of Lignin Pyrolyzates with Dopant-Assisted Atmospheric Pressure Chemical Ionization and Molecular Structure Search with CSI:FingerID. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1908-1918.	2.8	10
82	Anisotropic carbon-fluorine bond cleavage in collisionally activated dissociation of a hexafluorobenzene molecular ion beam. <i>The Journal of Physical Chemistry</i> , 1993, 97, 1119-1124.	2.9	9
83	Structural Analysis of Polyurethane Monomers by Pyrolysis GC TOFMS via Dopant-Assisted Atmospheric Pressure Chemical Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1046-1058.	2.8	8
84	On-tissue boronic acid derivatization for the analysis of vicinal diol metabolites in maize with MALDI-MS imaging. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4709.	1.6	8
85	Carbon-Based Fingerprint Powder as a One-Step Development and Matrix Application for High-Resolution Mass Spectrometry Imaging of Latent Fingerprints. <i>Journal of Forensic Sciences</i> , 2019, 64, 1048-1056.	1.6	7
86	Nanoparticle microarray for high-throughput microbiome metabolomics using matrix-assisted laser desorption ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 147-156.	3.7	7
87	rMSCleanup: an open-source tool for matrix-related peak annotation in mass spectrometry imaging and its application to silver-assisted laser desorption/ionization. <i>Journal of Cheminformatics</i> , 2020, 12, 45.	6.1	6
88	Rapid and Automatic Annotation of Multiple On-Tissue Chemical Modifications in Mass Spectrometry Imaging with Metaspace. <i>Analytical Chemistry</i> , 2022, 94, 8983-8991.	6.5	6
89	Anomalous translational energy upshift in collisionally activated dissociation of hexafluorobenzene molecular ion. <i>Chemical Physics Letters</i> , 1992, 192, 89-93.	2.6	5
90	Protein profiling of the potato petiole under short day and long day photoperiods. <i>Journal of Proteomics</i> , 2011, 74, 212-230.	2.4	5

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91	Novel instrumentation for tracking molecular products in fast pyrolysis of carbohydrates with sub-second temporal resolution. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 136, 107-114.	5.5	5
92	Mass spectrometry imaging of latent fingerprints using titanium oxide development powder as an existing matrix. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4631.	1.6	5
93	Analysis of mass-analyzed ion kinetic energy peak profiles. III. Analytical expression for a peak shape generated by collisionally activated dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 571-577.	1.5	4
94	Collision-Induced Dissociation of Cesium Iodide Cluster Ions. Scattering Angular Distribution and Excitation Mechanism. <i>Journal of Physical Chemistry A</i> , 1997, 101, 6148-6157.	2.5	4
95	Three-Dimensional Profiling of OLED by Laser Desorption Ionization-Mass Spectrometry Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2443-2451.	2.8	4
96	Scattering angular distributions in collisionally activated dissociation of some high mass ions: Analysis of mass-analyzed ion kinetic energy peak shapes. <i>Journal of Chemical Physics</i> , 1995, 103, 5442-5450.	3.0	3
97	Study of the cyanoacrylate fuming mechanism by matrix-assisted laser desorption/ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2019, 54, 222-226.	1.6	3
98	Editorial: Single Plant Cell Metabolomics. <i>Frontiers in Plant Science</i> , 2020, 11, 161.	3.6	3
99	C-F bond cleavage in collisionally activated dissociation of polyfluorinated molecular ions: Empirical structure-upward-shift correlation. <i>Rapid Communications in Mass Spectrometry</i> , 1993, 7, 994-998.	1.5	1
100	Rapid Antibiotic Susceptibility Testing by Deuterium Labeling of Bacterial Lipids in On-Target Microdroplet Cultures. <i>Journal of the American Society for Mass Spectrometry</i> , 0, , .	2.8	1
101	Elimination of the multiple collision effect from a mass-analyzed ion kinetic energy profile in collision-induced dissociation of high mass ions. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 171, 31-38.	1.8	0
102	SPARC is involved in the maintenance of mitotically inactivated mouse embryonic fibroblast cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2013, 49, 458-464.	1.5	0