Mitsutoshi Setou

List of Publications by Year
in descending order

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263	10,653	26567	45213
papers	citations	56 h-index	90 g-index

279	279	279	11156
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glutamate-receptor-interacting protein GRIP1 directly steers kinesin to dendrites. Nature, 2002, 417, 83-87.	13.7	464
2	Tubulin tyrosination navigates the kinesin-1 motor domain to axons. Nature Neuroscience, 2009, 12, 559-567.	7.1	339
3	Dynamic Remodeling of Membrane Composition Drives Cell Cycle through Primary Cilia Excision. Cell, 2017, 168, 264-279.e15.	13.5	273
4	A Novel Motor, KIF13A, Transports Mannose-6-Phosphate Receptor to Plasma Membrane through Direct Interaction with AP-1 Complex. Cell, 2000, 103, 569-581.	13.5	250
5	Loss of Â-tubulin polyglutamylation in ROSA22 mice is associated with abnormal targeting of KIF1A and modulated synaptic function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3213-3218.	3.3	202
6	SCRAPPER-Dependent Ubiquitination of Active Zone Protein RIM1 Regulates Synaptic Vesicle Release. Cell, 2007, 130, 943-957.	13.5	191
7	Visualization of the cell-selective distribution of PUFA-containing phosphatidylcholines in mouse brain by imaging mass spectrometry. Journal of Lipid Research, 2009, 50, 1776-1788.	2.0	180
8	MALDI-based imaging mass spectrometry revealed abnormal distribution of phospholipids in colon cancer liver metastasis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 855, 98-103.	1.2	168
9	Nanoparticle-Assisted Laser Desorption/Ionization Based Mass Imaging with Cellular Resolution. Analytical Chemistry, 2008, 80, 4761-4766.	3.2	164
10	CEP41 is mutated in Joubert syndrome and is required for tubulin glutamylation at the cilium. Nature Genetics, 2012, 44, 193-199.	9.4	157
11	Mass Imaging and Identification of Biomolecules with MALDI-QIT-TOF-Based System. Analytical Chemistry, 2008, 80, 878-885.	3.2	155
12	KIFC3, a microtubule minus endâ€“directed motor for the apical transport of annexin XIIIbâ€“associated Triton-insoluble membranes. Journal of Cell Biology, 2001, 155, 77-88.	2.3	150
13	TTLL7 Is a Mammalian Î²-Tubulin Polyglutamylase Required for Growth of MAP2-positive Neurites*. Journal of Biological Chemistry, 2006, 281, 30707-30716.	1.6	144
14	Imaging mass spectrometry for lipidomics. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 961-969.	1.2	143
15	Imaging Mass Spectrometry Technology and Application on Ganglioside Study; Visualization of Age-Dependent Accumulation of C20-Ganglioside Molecular Species in the Mouse Hippocampus. PLoS ONE, 2008, 3, e3232.	1.1	139
16	DHA-PC and PSD-95 decrease after loss of synaptophysin and before neuronal loss in patients with Alzheimer's disease. Scientific Reports, 2014, 4, 7130.	1.6	135
17	Tubulin polyglutamylation is essential for airway ciliary function through the regulation of beating asymmetry. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10490-10495.	3.3	133
18	Imaging Mass Spectrometry for Visualization of Drug and Endogenous Metabolite Distribution: Toward In Situ Pharmacometabolomes. Journal of NeuroImmune Pharmacology, 2010, 5, 31-43.	2.1	132

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19	Lysophosphatidylcholine acyltransferase 1 altered phospholipid composition and regulated hepatoma progression. Journal of Hepatology, 2013, 59, 292-299.	1.8	129
20	Visualization of Volatile Substances in Different Organelles with an Atmospheric-Pressure Mass Microscope. Analytical Chemistry, 2009, 81, 9153-9157.	3.2	127
21	Application of imaging mass spectrometry for the analysis of Oryza sativa rice. Rapid Communications in Mass Spectrometry, 2010, 24, 2723-2729.	0.7	123
22	Matrixâ€assisted laser desorption/ionization quadrupole ion trap timeâ€ofâ€flight (MALDIâ€QITâ€TOF)â€based imaging mass spectrometry reveals a layered distribution of phospholipid molecular species in the mouse retina. Rapid Communications in Mass Spectrometry, 2008, 22, 3415-3426.	0.7	119
23	Dietary Ï‰3 fatty acid exerts anti-allergic effect through the conversion to 17,18-epoxyeicosatetraenoic acid in the gut. Scientific Reports, 2015, 5, 9750.	1.6	112
24	Two-Step Matrix Application Technique To Improve Ionization Efficiency for Matrix-Assisted Laser Desorption/Ionization in Imaging Mass Spectrometry. Analytical Chemistry, 2006, 78, 8227-8235.	3.2	110
25	Human Breast Cancer Tissues Contain Abundant Phosphatidylcholine(36âˆ¶1) with High Stearoyl-CoA Desaturase-1 Expression. PLoS ONE, 2013, 8, e61204.	1.1	109
26	Imaging mass spectrometry with silver naeoparticles reveals the distribution of fatty acids in mouse retinal sections. Journal of the American Society for Mass Spectrometry, 2010, 21, 1446-1454.	1.2	105
27	Neuroaxonal Dystrophy in Calcium-Independent Phospholipase A₂Î² Deficiency Results from Insufficient Remodeling and Degeneration of Mitochondrial and Presynaptic Membranes. Journal of Neuroscience, 2011, 31, 11411-11420.	1.7	105
28	Paradoxical ATP Elevation in Ischemic Penumbra Revealed by Quantitative Imaging Mass Spectrometry. Antioxidants and Redox Signaling, 2010, 13, 1157-1167.	2.5	102
29	SAD: A Presynaptic Kinase Associated with Synaptic Vesicles and the Active Zone Cytomatrix that Regulates Neurotransmitter Release. Neuron, 2006, 50, 261-275.	3.8	96
30	Method for Simultaneous Imaging of Endogenous Low Molecular Weight Metabolites in Mouse Brain Using TiO₂ Nanoparticles in Nanoparticle-Assisted Laser Desorption/Ionization-Imaging Mass Spectrometry. Analytical Chemistry, 2011, 83, 7283-7289.	3.2	96
31	Accumulated phosphatidylcholine (16:0/16:1) in human colorectal cancer; possible involvement of <scp>LPCAT</scp>4. Cancer Science, 2013, 104, 1295-1302.	1.7	96
32	Mode of Bioenergetic Metabolism during B Cell Differentiation in the Intestine Determines the Distinct Requirement for Vitamin B1. Cell Reports, 2015, 13, 122-131.	2.9	96
33	Identification of Tubulin Deglutamylase among Caenorhabditis elegans and Mammalian Cytosolic Carboxypeptidases (CCPs). Journal of Biological Chemistry, 2010, 285, 22936-22941.	1.6	95
34	Overexpression of Lysophosphatidylcholine Acyltransferase 1 and Concomitant Lipid Alterations in Gastric Cancer. Annals of Surgical Oncology, 2016, 23, 206-213.	0.7	94
35	Imaging mass spectrometry of gastric carcinoma in formalinâ€fixed paraffinâ€embedded tissue microarray. Cancer Science, 2010, 101, 267-273.	1.7	92
36	Thin Sectioning Improves the Peak Intensity and Signal-to-Noise Ratio in Direct Tissue Mass Spectrometry. Journal of the Mass Spectrometry Society of Japan, 2006, 54, 45-48.	0.0	79

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37	Lipidomics analysis revealed the phospholipid compositional changes in muscle by chronic exercise and high-fat diet. Scientific Reports, 2013, 3, 3267.	1.6	77
38	Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry. International Journal of Molecular Sciences, 2010, 11, 5040-5055.	1.8	76
39	Increased Expression of Phosphatidylcholine (16:0/18:1) and (16:0/18:2) in Thyroid Papillary Cancer. PLoS ONE, 2012, 7, e48873.	1.1	76
40	The specific localization of seminolipid molecular species on mouse testis during testicular maturation revealed by imaging mass spectrometry. Glycobiology, 2009, 19, 950-957.	1.3	72
41	Visualization of Spatiotemporal Energy Dynamics of Hippocampal Neurons by Mass Spectrometry during a Kainate-Induced Seizure. PLoS ONE, 2011, 6, e17952.	1.1	72
42	In situ proteomics with imaging mass spectrometry and principal component analysis in the Scrapperâ€knockout mouse brain. Proteomics, 2008, 8, 3692-3701.	1.3	71
43	Organ-Specific Distributions of Lysophosphatidylcholine and Triacylglycerol in Mouse Embryo. Lipids, 2009, 44, 837-848.	0.7	70
44	Hypoperfusion of the Adventitial Vasa Vasorum Develops an Abdominal Aortic Aneurysm. PLoS ONE, 2015, 10, e0134386.	1.1	70
45	Fbxo45, a Novel Ubiquitin Ligase, Regulates Synaptic Activity. Journal of Biological Chemistry, 2010, 285, 3840-3849.	1.6	69
46	Imaging mass spectrometry-based histopathologic examination of atherosclerotic lesions. Atherosclerosis, 2011, 217, 427-432.	0.4	69
47	Visualization of acetylcholine distribution in central nervous system tissue sections by tandem imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 403, 1851-1861.	1.9	69
48	Visualization of Spatial Distribution of Î³ -Aminobutyric Acid in Eggplant (Solanum melongena) by Matrix-assisted Laser Desorption/Ionization Imaging Mass Spectrometry. Analytical Sciences, 2010, 26, 821-825.	0.8	68
49	Visualization of anthocyanin species in rabbiteye blueberry Vaccinium ashei by matrix-assisted laser desorption/ionization imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 403, 1885-1895.	1.9	68
50	The detection of glycosphingolipids in brain tissue sections by imaging mass spectrometry using gold nanoparticles. Journal of the American Society for Mass Spectrometry, 2010, 21, 1940-1943.	1.2	67
51	Selective imaging of positively charged polar and nonpolar lipids by optimizing matrix solution composition. Rapid Communications in Mass Spectrometry, 2009, 23, 3269-3278.	0.7	63
52	Abnormal phospholipids distribution in the prefrontal cortex from a patient with schizophrenia revealed by matrix-assisted laser desorption/ionization imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 400, 1933-1943.	1.9	63
53	Semi-quantitative analyses of metabolic systems of human colon cancer metastatic xenografts in livers of superimmunodeficient NOG mice. Analytical and Bioanalytical Chemistry, 2011, 400, 1895-1904.	1.9	62
54	Adventitial Vasa Vasorum Arteriosclerosis in Abdominal Aortic Aneurysm. PLoS ONE, 2013, 8, e57398.	1.1	62

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55	STING, a cytosolic DNA sensor, plays a critical role in atherogenesis: a link between innate immunity and chronic inflammation caused by lifestyle-related diseases. European Heart Journal, 2021, 42, 4336-4348.	1.0	61
56	High-sensitivity analysis of glycosphingolipids by matrix-assisted laser desorption/ionization quadrupole ion trap time-of-flight imaging mass spectrometry on transfer membranes. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 870, 74-83.	1.2	59
57	Transcriptome analysis reveals the population of dendritic RNAs and their redistribution by neural activity. Neuroscience Research, 2007, 57, 411-423.	1.0	58
58	Unique Post-Translational Modifications in Specialized Microtubule Architecture. Cell Structure and Function, 2010, 35, 15-22.	0.5	58
59	Ionic Matrix for Enhanced MALDI Imaging Mass Spectrometry for Identification of Phospholipids in Mouse Liver and Cerebellum Tissue Sections. Analytical Chemistry, 2010, 82, 8800-8806.	3.2	57
60	A new lipidomics approach by thin-layer chromatography-blot-matrix-assisted laser desorption/ionization imaging mass spectrometry for analyzing detailed patterns of phospholipid molecular species. Journal of Chromatography A, 2009, 1216, 7096-7101.	1.8	56
61	New approach for glycoâ€and lipidomics â€“ Molecular scanning of human brain gangliosides by TLCâ€Blot and MALDIâ€QITâ€TOF MS. Journal of Neurochemistry, 2011, 116, 678-683.	2.1	56
62	Barrier Abnormality Due to Ceramide Deficiency Leads to Psoriasiform Inflammation in a Mouse Model. Journal of Investigative Dermatology, 2013, 133, 2555-2565.	0.3	56
63	Glycosphingolipid metabolic reprogramming drives neural differentiation. EMBO Journal, 2018, 37, .	3.5	56
64	Functionalized Nano-Magnetic Particles for an In Vivo Delivery System. Journal of Nanoscience and Nanotechnology, 2007, 7, 937-944.	0.9	55
65	Layer-specific sulfatide localization in rat hippocampus middle molecular layer is revealed by nanoparticle-assisted laser desorption/ionization imaging mass spectrometry. Medical Molecular Morphology, 2009, 42, 16-23.	0.4	54
66	UBL3 modification influences protein sorting to small extracellular vesicles. Nature Communications, 2018, 9, 3936.	5.8	53
67	Imaging of Metabolites by MALDI Mass Spectrometry. Journal of Oleo Science, 2009, 58, 415-419.	0.6	50
68	Direct MS/MS analysis in mammalian tissue sections using MALDI-QIT-TOFMS and chemical inkjet technology. Surface and Interface Analysis, 2006, 38, 1712-1714.	0.8	49
69	MALDI Imaging Mass Spectrometryâ€”A Mini Review of Methods and Recent Developments. Mass Spectrometry, 2013, 2, S0022-S0022.	0.2	49
70	Expression of Human Gaucher Disease Gene GBA Generates Neurodevelopmental Defects and ER Stress in Drosophila Eye. PLoS ONE, 2013, 8, e69147.	1.1	48
71	Amino Acid Transporter ATA2 Is Stored at the trans-Golgi Network and Released by Insulin Stimulus in Adipocytes. Journal of Biological Chemistry, 2006, 281, 39273-39284.	1.6	47
72	Selective Analysis of Lipids by Thin-Layer Chromatography Blot Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry. Journal of Oleo Science, 2011, 60, 93-98.	0.6	47

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73	PGC-1Î±-mediated changes in phospholipid profiles of exercise-trained skeletal muscle. Journal of Lipid Research, 2015, 56, 2286-2296.	2.0	47
74	A novel organ culture model of aorta for vascular calcification. Atherosclerosis, 2016, 244, 51-58.	0.4	47
75	Regulation of Amino Acid Transporter ATA2 by Ubiquitin Ligase Nedd4-2. Journal of Biological Chemistry, 2006, 281, 35922-35930.	1.6	46
76	A Novel Chalcone Polyphenol Inhibits the Deacetylase Activity of SIRT1 and Cell Growth in HEK293T Cells. Journal of Pharmacological Sciences, 2008, 108, 364-371.	1.1	46
77	TTLL10 can perform tubulin glycylation when coâ€expressed with TTLL8. FEBS Letters, 2009, 583, 1957-1963.	1.3	46
78	TTLL10 is a protein polyglycylase that can modify nucleosome assembly protein 1. FEBS Letters, 2008, 582, 1129-1134.	1.3	45
79	A Novel Approach to in situ Proteome Analysis Using Chemical Inkjet Printing Technology and MALDI-QIT-TOF Tandem Mass Spectrometer. Journal of the Mass Spectrometry Society of Japan, 2006, 54, 133-140.	0.0	44
80	Visualization of dynamic change in contraction-induced lipid composition in mouse skeletal muscle by matrix-assisted laser desorption/ionization imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 403, 1863-1871.	1.9	43
81	Lymphangiogenesis and Angiogenesis in Abdominal Aortic Aneurysm. PLoS ONE, 2014, 9, e89830.	1.1	42
82	Axonal Gradient of Arachidonic Acid-containing Phosphatidylcholine and Its Dependence on Actin Dynamics. Journal of Biological Chemistry, 2012, 287, 5290-5300.	1.6	41
83	Expression of indocyanine green-related transporters in hepatocellular carcinoma. Journal of Surgical Research, 2015, 193, 567-576.	0.8	41
84	Adipocyte in vascular wall can induce the rupture of abdominal aortic aneurysm. Scientific Reports, 2016, 6, 31268.	1.6	41
85	Downregulation of GNA13-ERK network in prefrontal cortex of schizophrenia brain identified by combined focused and targeted quantitative proteomics. Journal of Proteomics, 2017, 158, 31-42.	1.2	40
86	Recombinant Mammalian Tubulin Polyglutamylase TTLL7 Performs both Initiation and Elongation of Polyglutamylation on Î²-Tubulin through a Random Sequential Pathway. Biochemistry, 2009, 48, 1084-1093.	1.2	39
87	SIRT1 Regulates Thyroid-Stimulating Hormone Release by Enhancing PIP5KÎ³ Activity through Deacetylation of Specific Lysine Residues in Mammals. PLoS ONE, 2010, 5, e11755.	1.1	39
88	Spatiotemporal alteration of phospholipids and prostaglandins in a rat model of spinal cord injury. Analytical and Bioanalytical Chemistry, 2012, 403, 1873-1884.	1.9	39
89	Ciliary and Flagellar Structure and Functionâ€"Their Regulations by Posttranslational Modifications of Axonemal Tubulin. International Review of Cell and Molecular Biology, 2012, 294, 133-170.	1.6	38
90	Recurrent triple-negative breast cancer (TNBC) tissues contain a higher amount of phosphatidylcholine (32:1) than non-recurrent TNBC tissues. PLoS ONE, 2017, 12, e0183724.	1.1	38

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91	Detection of characteristic distributions of phospholipid head groups and fatty acids on neurite surface by time-of-flight secondary ion mass spectrometry. Medical Molecular Morphology, 2010, 43, 158-164.	0.4	37
92	Accumulation of arachidonic acid-containing phosphatidylinositol at the outer edge of colorectal cancer. Scientific Reports, 2016, 6, 29935.	1.6	37
93	Doublet 7 shortening, doublet 5-preferential poly-Glu reduction, and beating stall of sperm flagella in Ttll9â^'/â^' mice. Journal of Cell Science, 2016, 129, 2757-66.	1.2	37
94	Discovery of lipid biomarkers correlated with disease progression in clear cell renal cell carcinoma using desorption electrospray ionization imaging mass spectrometry. Oncotarget, 2019, 10, 1688-1703.	0.8	37
95	Salamander retina phospholipids and their localization by MALDI imaging mass spectrometry at cellular size resolution. Journal of Lipid Research, 2011, 52, 463-470.	2.0	36
96	Cytosolic Carboxypeptidase 5 Removes Î±- and Î³-Linked Glutamates from Tubulin. Journal of Biological Chemistry, 2013, 288, 30445-30453.	1.6	36
97	Sirtuinâ€mediated deacetylation pathway stabilizes Werner syndrome protein. FEBS Letters, 2008, 582, 2479-2483.	1.3	35
98	Imaging mass spectrometry distinguished the cancer and stromal regions of oral squamous cell carcinoma by visualizing phosphatidylcholine (16:0/16:1) and phosphatidylcholine (18:1/20:4). Analytical and Bioanalytical Chemistry, 2014, 406, 1307-1316.	1.9	34
99	Increase in Î±-tubulin modifications in the neuronal processes of hippocampal neurons in both kainic acid-induced epileptic seizure and Alzheimerâ€™s disease. Scientific Reports, 2017, 7, 40205.	1.6	34
100	Preferential Incorporation of Administered Eicosapentaenoic Acid Into Thin-Cap Atherosclerotic Plaques. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1802-1816.	1.1	34
101	Authenticity assessment of beef origin by principal component analysis of matrix-assisted laser desorption/ionization mass spectrometric data. Analytical and Bioanalytical Chemistry, 2011, 400, 1865-1871.	1.9	33
102	Imaging Mass Spectrometry Reveals a Unique Distribution of Triglycerides in the Abdominal Aortic Aneurysmal Wall. Journal of Vascular Research, 2015, 52, 127-135.	0.6	33
103	Detection of a High-Turnover Serotonin Circuit in the Mouse Brain Using Mass Spectrometry Imaging. IScience, 2019, 20, 359-372.	1.9	33
104	Visualization of phosphatidylcholine, lysophosphatidylcholine and sphingomyelin in mouse tongue body by matrix-assisted laser desorption/ionization imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 400, 1913-1921.	1.9	32
105	Mass microscopy: high-resolution imaging mass spectrometry. Journal of Electron Microscopy, 2011, 60, 47-56.	0.9	31
106	Principal Component Analysis of Direct Matrix-Assisted Laser Desorption/Ionization Mass Spectrometric Data Related to Metabolites of Fatty Liver. Journal of Oleo Science, 2009, 58, 267-273.	0.6	30
107	Alzheimer's disease is associated with disordered localization of ganglioside GM1 molecular species in the human dentate gyrus. FEBS Letters, 2015, 589, 3611-3616.	1.3	30
108	Imaging mass spectrometry analysis reveals an altered lipid distribution pattern in the tubular areas of hyper-IgA murine kidneys. Experimental and Molecular Pathology, 2011, 91, 614-621.	0.9	28

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109	Visualization of neuropeptides in paraffin-embedded tissue sections of the central nervous system in the decapod crustacean, Penaeus monodon, by imaging mass spectrometry. Peptides, 2012, 34, 10-18.	1.2	28
110	Imaging Mass Spectrometry Visualizes Ceramides and the Pathogenesis of Dorfman-Chanarin Syndrome Due to Ceramide Metabolic Abnormality in the Skin. PLoS ONE, 2012, 7, e49519.	1.1	28
111	Minos-insertion mutant of the Drosophila GBA gene homologue showed abnormal phenotypes of climbing ability, sleep and life span with accumulation of hydroxy-glucocerebroside. Gene, 2017, 614, 49-55.	1.0	28
112	Magnetic Nanoparticle-Based Mass Spectrometry for the Detection of Biomolecules in Cultured Cells. Journal of Nanoscience and Nanotechnology, 2009, 9, 169-176.	0.9	26
113	Developments and applications of mass microscopy. Medical Molecular Morphology, 2010, 43, 1-5.	0.4	26
114	Coronary triglyceride deposition in contemporary advanced diabetics. Pathology International, 2014, 64, 325-335.	0.6	26
115	Mass Microscopy to Reveal Distinct Localization of Heme B (m/z 616) in Colon Cancer Liver Metastasis. Journal of the Mass Spectrometry Society of Japan, 2007, 55, 145-148.	0.0	25
116	Loss of lymphatic vessels and regional lipid accumulation is associated with great saphenous vein incompetence. Journal of Vascular Surgery, 2012, 55, 1440-1448.	0.6	25
117	Ammonium Sulfate Improves Detection of Hydrophilic Quaternary Ammonium Compounds through Decreased Ion Suppression in Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry. Analytical Chemistry, 2015, 87, 11176-11181.	3.2	25
118	Protease-resistant modified human Î²-hexosaminidase B ameliorates symptoms in GM2 gangliosidosis model. Journal of Clinical Investigation, 2016, 126, 1691-1703.	3.9	25
119	Synaptic E3 Ligase SCRAPPER in Contextual Fear Conditioning: Extensive Behavioral Phenotyping of Scrapper Heterozygote and Overexpressing Mutant Mice. PLoS ONE, 2011, 6, e17317.	1.1	25
120	Transmembrane and Ubiquitin-Like Domain-Containing Protein 1 (Tmub1/HOPS) Facilitates Surface Expression of GluR2-Containing AMPA Receptors. PLoS ONE, 2008, 3, e2809.	1.1	24
121	Single-cell time-of-flight secondary ion mass spectrometry reveals that human breast cancer stem cells have significantly lower content of palmitoleic acid compared to their counterpart non-stem cancer cells. Biochimie, 2014, 107, 73-77.	1.3	24
122	Imaging mass spectrometry reveals fiber-specific distribution of acetylcarnitine and contraction-induced carnitine dynamics in rat skeletal muscles. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1699-1706.	0.5	24
123	Decreased level of phosphatidylcholine (16:0/20:4) in multiple myeloma cells compared to plasma cells: a single-cell MALDIâ€“IMS approach. Analytical and Bioanalytical Chemistry, 2015, 407, 5273-5280.	1.9	24
124	Increased arachidonic acid-containing phosphatidylcholine is associated with reactive microglia and astrocytes in the spinal cord after peripheral nerve injury. Scientific Reports, 2016, 6, 26427.	1.6	24
125	Composition and Localization of Lipids in Penaeus merguiensis Ovaries during the Ovarian Maturation Cycle as Revealed by Imaging Mass Spectrometry. PLoS ONE, 2012, 7, e33154.	1.1	23
126	Variation of prostaglandin E2 concentrations in ovaries and its effects on ovarian maturation and oocyte proliferation in the giant fresh water prawn, Macrobrachium rosenbergii. General and Comparative Endocrinology, 2015, 223, 129-138.	0.8	23

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127	Imaging of lipids in cultured mammalian neurons by matrix assisted laser/desorption ionization and secondary ion mass spectrometry. Surface and Interface Analysis, 2010, 42, 1606-1611.	0.8	22
128	Imaging mass spectrometry: principle and application. Biophysical Reviews, 2009, 1, 131-139.	1.5	21
129	Cisplatin induces Sirt1 in association with histone deacetylation and increased Werner syndrome protein in the kidney. Clinical and Experimental Nephrology, 2011, 15, 363-372.	0.7	21
130	Three-dimensional tracking of microbeads attached to the tip of single isolated tracheal cilia beating under external load. Scientific Reports, 2018, 8, 15562.	1.6	21
131	Development of imaging mass spectrometry (IMS) dataset extractor software, IMS convolution. Analytical and Bioanalytical Chemistry, 2011, 401, 183-193.	1.9	20
132	Investigation by Imaging Mass Spectrometry of Biomarker Candidates for Aging in the Hair Cortex. PLoS ONE, 2011, 6, e26721.	1.1	20
133	SCRAPPER Selectively Contributes to Spontaneous Release and Presynaptic Long-Term Potentiation in the Anterior Cingulate Cortex. Journal of Neuroscience, 2017, 37, 3887-3895.	1.7	20
134	Palmitic acid, verified by lipid profiling using secondary ion mass spectrometry, demonstrates anti-multiple myeloma activity. Leukemia Research, 2015, 39, 638-645.	0.4	19
135	Decreased 16:0/20:4-phosphatidylinositol level in the post-mortem prefrontal cortex of elderly patients with schizophrenia. Scientific Reports, 2017, 7, 45050.	1.6	19
136	Profiling and Imaging of Phospholipids in Brains of Abcd1â€Deficient Mice. Lipids, 2018, 53, 85-102.	0.7	19
137	Environmental responsiveness of tubulin glutamylation in sensory cilia is regulated by the p38 MAPK pathway. Scientific Reports, 2018, 8, 8392.	1.6	19
138	Development of Imaging Mass Spectrometry. Biological and Pharmaceutical Bulletin, 2012, 35, 1417-1424.	0.6	18
139	Hypo-osmotic shock induces nuclear export and proteasome-dependent decrease of UBL5. Biochemical and Biophysical Research Communications, 2006, 350, 610-615.	1.0	17
140	Mammalian cell nano structures visualized by cryo Hilbert differential contrast transmission electron microscopy. Medical Molecular Morphology, 2006, 39, 176-180.	0.4	17
141	Distribution of phospholipid molecular species in autogenous access grafts for hemodialysis analyzed using imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 400, 1873-1880.	1.9	17
142	Role of caveolinâ€1 in hepatocellular carcinoma arising from nonâ€alcoholic fatty liver disease. Cancer Science, 2018, 109, 2401-2411.	1.7	17
143	Imaging mass spectrometry reveals characteristic changes in triglyceride and phospholipid species in regenerating mouse liver. Biochemical and Biophysical Research Communications, 2011, 408, 120-125.	1.0	16
144	Distribution of Antisense Oligonucleotides in Rat Eyeballs Using MALDI Imaging Mass Spectrometry. Mass Spectrometry, 2018, 7, A0070-A0070.	0.2	16

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145	Green Nut Oil or DHA Supplementation Restored Decreased Distribution Levels of DHA Containing Phosphatidylcholines in the Brain of a Mouse Model of Dementia. Metabolites, 2020, 10, 153.	1.3	16
146	Potential role of transforming growth factorâ€beta 1/Smad signaling in secondary lymphedema after cancer surgery. Cancer Science, 2020, 111, 2620-2634.	1.7	16
147	Review of Imaging Mass Spectrometry. Journal of the Mass Spectrometry Society of Japan, 2005, 53, 230-238.	0.0	15
148	Using Imaging Mass Spectrometry to Accurately Diagnose Fabry's Disease. Circulation Journal, 2011, 75, 221-223.	0.7	15
149	Characteristic Distribution Pattern of Lysophosphatidylcholine in Fibromuscular Dysplasia-Associated Visceral Artery Aneurysms Compared with Atherosclerotic Visceral Artery Aneurysms. Journal of Atherosclerosis and Thrombosis, 2016, 23, 673-680.	0.9	15
150	Distribution Analysis via Mass Spectrometry Imaging of Ephedrine in the Lungs of Rats Orally Administered the Japanese Kampo Medicine Maoto. Scientific Reports, 2017, 7, 44098.	1.6	15
151	Dietary Intake of Green Nut Oil or DHA Ameliorates DHA Distribution in the Brain of a Mouse Model of Dementia Accompanied by Memory Recovery. Nutrients, 2019, 11, 2371.	1.7	15
152	Visualization of sphingolipids and phospholipids in the fundic gland mucosa of human stomach using imaging mass spectrometry. World Journal of Gastrointestinal Pathophysiology, 2016, 7, 235.	0.5	15
153	Spectrum Normalization Method Using an External Standard in Mass Spectrometric Imaging. Journal of the Mass Spectrometry Society of Japan, 2008, 56, 77-81.	0.0	15
154	Imaging Mass Spectrometry of Glycolipids. Methods in Enzymology, 2010, 478, 287-301.	0.4	14
155	Single cell lipidomics of SKBRâ€3 breast cancer cells by using timeâ€ofâ€flight secondaryâ€ion mass spectrometry. Surface and Interface Analysis, 2014, 46, 181-184.	0.8	14
156	Application of 2,5â€dihydroxyacetophenone with sublimation provides efficient ionization of lipid species by atmospheric pressure matrixâ€assisted laser desorption/ionization imaging mass spectrometry. Surface and Interface Analysis, 2014, 46, 1219-1222.	0.8	14
157	Insufficient Lymph Drainage Causes Abnormal Lipid Accumulation and Vein Wall Degeneration. Annals of Vascular Diseases, 2016, 9, 277-284.	0.2	14
158	Influenza A virus enhances ciliary activity and mucociliary clearance via TLR3 in airway epithelium. Respiratory Research, 2020, 21, 282.	1.4	14
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