

Yoshihiro Izumi

List of Publications by Year in descending order

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86
papers

3,088
citations

236925

25
h-index

175258

52
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88
all docs

88
docs citations

88
times ranked

4859
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950“Metabolites in Frozen Human Plasma. <i>Journal of Lipid Research</i> , 2017, 58, 2275-2288.	4.2	312
2	A Novel Serum Metabolomics-Based Diagnostic Approach for Colorectal Cancer. <i>PLoS ONE</i> , 2012, 7, e40459.	2.5	227
3	A Novel Serum Metabolomics-Based Diagnostic Approach to Pancreatic Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2013, 22, 571-579.	2.5	157
4	Butyrate Attenuates Inflammation and Lipolysis Generated by the Interaction of Adipocytes and Macrophages. <i>Journal of Atherosclerosis and Thrombosis</i> , 2013, 20, 425-442.	2.0	157
5	A shift in glutamine nitrogen metabolism contributes to the malignant progression of cancer. <i>Nature Communications</i> , 2020, 11, 1320.	12.8	141
6	Development of a method for comprehensive and quantitative analysis of plant hormones by highly sensitive nanoflow liquid chromatography“electrospray ionization-ion trap mass spectrometry. <i>Analytica Chimica Acta</i> , 2009, 648, 215-225.	5.4	134
7	Dynamic metabolic profiling of cyanobacterial glycogen biosynthesis under conditions of nitrate depletion. <i>Journal of Experimental Botany</i> , 2013, 64, 2943-2954.	4.8	132
8	Intracellular metabolite $\hat{1}^2$ -glucosylceramide is an endogenous Mincle ligand possessing immunostimulatory activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3285-E3294.	7.1	129
9	Adiponectin/T-cadherin system enhances exosome biogenesis and decreases cellular ceramides by exosomal release. <i>JCI Insight</i> , 2018, 3, .	5.0	122
10	Direct conversion of Spirulina to ethanol without pretreatment or enzymatic hydrolysis processes. <i>Energy and Environmental Science</i> , 2013, 6, 1844.	30.8	103
11	Widely targeted metabolic profiling analysis of yeast central metabolites. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 665-673.	2.2	94
12	Widely-targeted quantitative lipidomics method by supercritical fluid chromatography triple quadrupole mass spectrometry. <i>Journal of Lipid Research</i> , 2018, 59, 1283-1293.	4.2	94
13	Diagnosis of gastroenterological diseases by metabolome analysis using gas chromatography“mass spectrometry. <i>Journal of Gastroenterology</i> , 2012, 47, 9-20.	5.1	74
14	High-Throughput Simultaneous Analysis of Pesticides by Supercritical Fluid Chromatography Coupled with High-Resolution Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 4457-4463.	5.2	54
15	Lipidomic Analysis of Cells and Extracellular Vesicles from High- and Low-Metastatic Triple-Negative Breast Cancer. <i>Metabolites</i> , 2020, 10, 67.	2.9	49
16	Importance of optimizing chromatographic conditions and mass spectrometric parameters for supercritical fluid chromatography/mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1508, 138-147.	3.7	48
17	Lipophagy maintains energy homeostasis in the kidney proximal tubule during prolonged starvation. <i>Autophagy</i> , 2017, 13, 1629-1647.	9.1	47
18	<i>Helicobacter pylori</i> metabolites exacerbate gastritis through C-type lectin receptors. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	44

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19	Use of on-line supercritical fluid extraction-supercritical fluid chromatography/tandem mass spectrometry to analyze disease biomarkers in dried serum spots compared with serum analysis using liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 886-894.	1.5	41
20	Eicosapentaenoic acid attenuates renal lipotoxicity by restoring autophagic flux. <i>Autophagy</i> , 2021, 17, 1700-1713.	9.1	38
21	Inter-Laboratory Comparison of Metabolite Measurements for Metabolomics Data Integration. <i>Metabolites</i> , 2019, 9, 257.	2.9	34
22	Regulation of the metabolite profile by an APC gene mutation in colorectal cancer. <i>Cancer Science</i> , 2012, 103, 1010-1021.	3.9	33
23	Lipidomic analysis of plasma lipoprotein fractions in myocardial infarction-prone rabbits. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 476-482.	2.2	32
24	Defective cortex glia plasma membrane structure underlies light-induced epilepsy in <i>cpe</i> mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8919-E8928.	7.1	31
25	MRM-DIFF: data processing strategy for differential analysis in large scale MRM-based lipidomics studies. <i>Frontiers in Genetics</i> , 2014, 5, 471.	2.3	29
26	Dynamic Metabolome Analysis Reveals the Metabolic Fate of Medium-Chain Fatty Acids in AML12 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 11997-12010.	5.2	28
27	Glioma cells require one-carbon metabolism to survive glutamine starvation. <i>Acta Neuropathologica Communications</i> , 2021, 9, 16.	5.2	27
28	Metabolic engineering of oleaginous fungus <i>Mortierella alpina</i> for high production of oleic and linoleic acids. <i>Bioresource Technology</i> , 2017, 245, 1610-1615.	9.6	26
29	An Analytical System for Single-Cell Metabolomics of Typical Mammalian Cells Based on Highly Sensitive Nano-Liquid Chromatography Tandem Mass Spectrometry. <i>Mass Spectrometry</i> , 2020, 9, A0080-A0080.	0.6	26
30	Silica-based hybrid porous layers to enhance the retention and efficiency of open tubular capillary columns with a 5 μ m inner diameter. <i>Journal of Chromatography A</i> , 2018, 1580, 63-71.	3.7	25
31	A highly sensitive determination method for acrylamide in beverages, grains, and confectioneries by supercritical fluid chromatography tandem mass spectrometry. <i>Food Chemistry</i> , 2019, 294, 486-492.	8.2	25
32	Highly Accurate Detection and Identification Methodology of Xenobiotic Metabolites Using Stable Isotope Labeling, Data Mining Techniques, and Time-Dependent Profiling Based on LC/HRMS/MS. <i>Analytical Chemistry</i> , 2018, 90, 9068-9076.	6.5	24
33	Structural library and visualization of endogenously oxidized phosphatidylcholines using mass spectrometry-based techniques. <i>Nature Communications</i> , 2021, 12, 6339.	12.8	24
34	Reproductive organs regulate leaf nitrogen metabolism mediated by cytokinin signal. <i>Planta</i> , 2009, 229, 633-644.	3.2	23
35	Dietary Intake of Curcumin Improves eIF2 Signaling and Reduces Lipid Levels in the White Adipose Tissue of Obese Mice. <i>Scientific Reports</i> , 2018, 8, 9081.	3.3	23
36	Metabolomic analysis to discover candidate therapeutic agents against acute pancreatitis. <i>Archives of Biochemistry and Biophysics</i> , 2012, 522, 107-120.	3.0	22

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37	High-resolution spatial and temporal analysis of phytoalexin production in oats. <i>Planta</i> , 2009, 229, 931-943.	3.2	20
38	Aqueous size-exclusion chromatographic method for the quantification of cyanobacterial native glycogen. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 930, 90-97.	2.3	20
39	Supercritical fluid extraction as a preparation method for mass spectrometry of dried blood spots. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 969, 199-204.	2.3	20
40	Metabolic effects of RUBCN/Rubicon deficiency in kidney proximal tubular epithelial cells. <i>Autophagy</i> , 2020, 16, 1889-1904.	9.1	20
41	<i>Porphyromonas gingivalis</i> induces entero-hepatic metabolic derangements with alteration of gut microbiota in a type 2 diabetes mouse model. <i>Scientific Reports</i> , 2021, 11, 18398.	3.3	19
42	Differential effect of canagliflozin, a sodium-glucose cotransporter 2 (SGLT2) inhibitor, on slow and fast skeletal muscles from nondiabetic mice. <i>Biochemical Journal</i> , 2022, 479, 425-444.	3.7	17
43	Remote solid cancers rewire hepatic nitrogen metabolism via host nicotinamide-N-methyltransferase. <i>Nature Communications</i> , 2022, 13, .	12.8	16
44	Performance of small-domain monolithic silica columns in nano-liquid chromatography and comparison with commercial packed bed columns with 2 Åµm particles. <i>Journal of Chromatography A</i> , 2020, 1616, 460804.	3.7	15
45	Development of a novel method for polar metabolite profiling by supercritical fluid chromatography/tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1632, 461587.	3.7	15
46	Method for Structural Determination of Lipid-Derived Radicals. <i>Analytical Chemistry</i> , 2020, 92, 6993-7002.	6.5	15
47	Skeletal muscle-specific Keap1 disruption modulates fatty acid utilization and enhances exercise capacity in female mice. <i>Redox Biology</i> , 2021, 43, 101966.	9.0	15
48	Improved quantitation of lipid classes using supercritical fluid chromatography with a charged aerosol detector. <i>Journal of Lipid Research</i> , 2019, 60, 1465-1474.	4.2	14
49	Interlaboratory study of a supercritical fluid chromatography method for the determination of pharmaceutical impurities: Evaluation of multi-systems reproducibility. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 203, 114206.	2.8	14
50	Kastor and Polluks polypeptides encoded by a single gene locus cooperatively regulate VDAC and spermatogenesis. <i>Nature Communications</i> , 2022, 13, 1071.	12.8	14
51	Simultaneous quantification of lignans in <i>Arabidopsis thaliana</i> by highly sensitive capillary liquid chromatography-electrospray ionization-ion trap mass spectrometry. <i>Plant Biotechnology</i> , 2011, 28, 287-293.	1.0	13
52	Application of electrospray ionization ion trap/time-of-flight mass spectrometry for chemically-synthesized small RNAs. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 412-419.	2.2	13
53	Alterations in Docosahexaenoic Acid-Related Lipid Cascades in Inflammatory Bowel Disease Model Mice. <i>Digestive Diseases and Sciences</i> , 2018, 63, 1485-1496.	2.3	13
54	Cancer-derived cholesterol sulfate is a key mediator to prevent tumor infiltration by effector T cells. <i>International Immunology</i> , 2022, 34, 277-289.	4.0	12

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55	Wide target analysis of acylglycerols in miso (Japanese fermented soybean paste) by supercritical fluid chromatography coupled with triple quadrupole mass spectrometry and the analysis of the correlation between taste and both acylglycerols and free fatty acids. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 928-936.	1.5	11
56	Comparison of Retention Behavior between Supercritical Fluid Chromatography and Normal-Phase High-Performance Liquid Chromatography with Various Stationary Phases. <i>Molecules</i> , 2019, 24, 2425.	3.8	11
57	In-Line Sample Processing System with an Immobilized Trypsin-Packed Fused-Silica Capillary Tube for the Proteomic Analysis of a Small Number of Mammalian Cells. <i>Analytical Chemistry</i> , 2020, 92, 2997-3005.	6.5	11
58	Design of Synthetic Quorum Sensing Achieving Induction Timing-Independent Signal Stabilization for Dynamic Metabolic Engineering of <i>E. coli</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 1384-1393.	3.8	11
59	Targeting leukemia-specific dependence on the de novo purine synthesis pathway. <i>Leukemia</i> , 2022, 36, 383-393.	7.2	11
60	Ameliorating effects of D-47, a newly developed compound, on lipid metabolism in an animal model of familial hypercholesterolemia (WHHLM1 rabbits). <i>European Journal of Pharmacology</i> , 2018, 822, 147-153.	3.5	10
61	Lipid Profiling of Serum and Lipoprotein Fractions in Response to Pitavastatin Using an Animal Model of Familial Hypercholesterolemia. <i>Journal of Proteome Research</i> , 2020, 19, 1100-1108.	3.7	10
62	Comparison of Kit-Based Metabolomics with Other Methodologies in a Large Cohort, towards Establishing Reference Values. <i>Metabolites</i> , 2021, 11, 652.	2.9	10
63	Identification of novel serum markers for the progression of coronary atherosclerosis in WHHLM1 rabbits, an animal model of familial hypercholesterolemia. <i>Atherosclerosis</i> , 2019, 284, 18-23.	0.8	9
64	Enzyme systems involved in glucosinolate metabolism in <i>Companilactobacillus farciminis</i> KB1089. <i>Scientific Reports</i> , 2021, 11, 23715.	3.3	8
65	Quantitative metabolomics for dynamic metabolic engineering using stable isotope labeled internal standards mixture (SILIS). <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 46-55.	2.2	7
66	Recent trends in the field of lipid engineering. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 405-413.	2.2	7
67	Pharmacological intervention of cholesterol sulfate-mediated T cell exclusion promotes antitumor immunity. <i>Biochemical and Biophysical Research Communications</i> , 2022, 609, 183-188.	2.1	7
68	A novel microsurgery method for intact plant tissue at the single cell level using ArF excimer laser microprojection. <i>Biotechnology and Bioengineering</i> , 2006, 93, 325-331.	3.3	6
69	A Pilot Study: Effects of Kombu Intake on Lifestyle-related Diseases -Possibility that Kombu Intake is Effective in Individuals with Abnormally High Serum Triglyceride Levels-. <i>Food Science and Technology Research</i> , 2019, 25, 827-834.	0.6	6
70	Possible Involvement of Lipids in the Effectiveness of Kombu in Individuals with Abnormally High Serum Triglyceride Levels. <i>Journal of Nutritional Science and Vitaminology</i> , 2020, 66, 185-190.	0.6	5
71	Metabolic alteration of <i>Methylococcus capsulatus</i> str. Bath during a microbial gas-phase reaction. <i>Bioresource Technology</i> , 2021, 330, 125002.	9.6	5
72	Ultrafast simultaneous chiral analysis of native amino acid enantiomers using supercritical fluid chromatography/tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2022, 1677, 463305.	3.7	4

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73	Line-Scanning Microscopy for Time-Gated and Spectrally Resolved Fluorescence Imaging. <i>Journal of Biological Physics</i> , 2008, 34, 51-62.	1.5	3
74	Practical evaluation of liquid chromatography/tandem mass spectrometry and enzyme immunoassay method for the accurate quantitative analysis of prostaglandins. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 116-118.	2.2	3
75	Identification of Acrylamide Adducts Generated during Storage of Canned Milk Coffee. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3859-3867.	5.2	3
76	Calibration-Curve-Locking Database for Semi-Quantitative Metabolomics by Gas Chromatography/Mass Spectrometry. <i>Metabolites</i> , 2021, 11, 207.	2.9	3
77	Investigation of supercritical fluid chromatography retention behaviors using quantitative structure-retention relationships. <i>Analytica Chimica Acta</i> , 2022, 1197, 339463.	5.4	3
78	Lipoprotein profiling methodology based on determination of apolipoprotein concentration. <i>Bioanalysis</i> , 2017, 9, 9-19.	1.5	2
79	Ddhd1 knockout mouse as a model of locomotive and physiological abnormality in familial spastic paraplegia. <i>Bioscience Reports</i> , 2021, 41, .	2.4	2
80	Hydrophilic Metabolite Analysis. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2017, 65, 195-198.	0.1	1
81	Produced $\hat{1}^2$ -hydroxybutyrate after $\hat{1}^2$ -hydroxy- $\hat{1}^2$ -methylbutyrate (HMB) administration may contribute HMB function in mice. <i>Biochemistry and Biophysics Reports</i> , 2021, 27, 101097.	1.3	1
82	Nano-Liquid Chromatography Mass Spectrometry-Based Molecular and Phenotypic Analysis at Single-Cell Resolution. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2020, 68, 44-48.	0.1	1
83	Detection and structural analysis of pyrimidine-derived radicals generated on DNA using a profluorescent nitroxide probe. <i>Chemical Communications</i> , 2021, 58, 56-59.	4.1	1
84	Comparative Evaluation of Plasma Metabolomic Data from Multiple Laboratories. <i>Metabolites</i> , 2022, 12, 135.	2.9	1
85	Development of Lipidomic Analysis Method by Utilizing Supercritical Fluid Extraction and Separation Technologies. <i>Oleosience</i> , 2014, 14, 329-336.	0.0	0
86	Performance of functionalized monolithic silica capillary columns with different mesopore sizes using radical polymerization of octadecyl methacrylate. <i>Journal of Chromatography A</i> , 2021, 1651, 462282.	3.7	0