Yoshihiro Izumi

List of Publications by Year
in descending order

86 papers	3,088 citations	236925 25 h-index	175258 52 g-index
88 all docs	88 docs citations	88 times ranked	4859 citing authors

#	Article	IF	Citations
1	Targeting leukemia-specific dependence on the de novo purine synthesis pathway. Leukemia, 2022, 36, 383-393.	7.2	11
2	Quantitative metabolomics for dynamic metabolic engineering using stable isotope labeled internal standards mixture (SILIS). Journal of Bioscience and Bioengineering, 2022, 133, 46-55.	2.2	7
3	Differential effect of canagliflozin, a sodiumâ€“glucose cotransporter 2 (SGLT2) inhibitor, on slow and fast skeletal muscles from nondiabetic mice. Biochemical Journal, 2022, 479, 425-444.	3.7	17
4	Cancer-derived cholesterol sulfate is a key mediator to prevent tumor infiltration by effector T cells. International Immunology, 2022, 34, 277-289.	4.0	12
5	Comparative Evaluation of Plasma Metabolomic Data from Multiple Laboratories. Metabolites, 2022, 12, 135.	2.9	1
6	Investigation of supercritical fluid chromatography retention behaviors using quantitative structure-retention relationships. Analytica Chimica Acta, 2022, 1197, 339463.	5.4	3
7	Kastor and Polluks polypeptides encoded by a single gene locus cooperatively regulate VDAC and spermatogenesis. Nature Communications, 2022, 13, 1071.	12.8	14
8	Recent trends in the field of lipid engineering. Journal of Bioscience and Bioengineering, 2022, 133, 405-413.	2.2	7
9	Pharmacological intervention of cholesterol sulfate-mediated T cell exclusion promotes antitumor immunity. Biochemical and Biophysical Research Communications, 2022, 609, 183-188.	2.1	7
10	Remote solid cancers rewire hepatic nitrogen metabolism via host nicotinamide-N-methyltransferase. Nature Communications, 2022, 13, .	12.8	16
11	Ultrafast simultaneous chiral analysis of native amino acid enantiomers using supercritical fluid chromatography/tandem mass spectrometry. Journal of Chromatography A, 2022, 1677, 463305.	3.7	4
12	Eicosapentaenoic acid attenuates renal lipotoxicity by restoring autophagic flux. Autophagy, 2021, 17, 1700-1713.	9.1	38
13	Helicobacter pylori metabolites exacerbate gastritis through C-type lectin receptors. Journal of Experimental Medicine, 2021, 218, .	8.5	44
14	Glioma cells require one-carbon metabolism to survive glutamine starvation. Acta Neuropathologica Communications, 2021, 9, 16.	5.2	27
15	Ddhd1 knockout mouse as a model of locomotive and physiological abnormality in familial spastic paraplegia. Bioscience Reports, 2021, 41, .	2.4	2
16	Calibration-Curve-Locking Database for Semi-Quantitative Metabolomics by Gas Chromatography/Mass Spectrometry. Metabolites, 2021, 11, 207.	2.9	3
17	Metabolic alteration of Methylococcus capsulatus str. Bath during a microbial gas-phase reaction. Bioresource Technology, 2021, 330, 125002.	9.6	5
18	Design of Synthetic Quorum Sensing Achieving Induction Timing-Independent Signal Stabilization for Dynamic Metabolic Engineering of E.Âcoli. ACS Synthetic Biology, 2021, 10, 1384-1393.	3.8	11

#	Article	IF	Citations
19	Skeletal muscle-specific Keap1 disruption modulates fatty acid utilization and enhances exercise capacity in female mice. Redox Biology, 2021, 43, 101966.	9.0	15
20	Performance of functionalized monolithic silica capillary columns with different mesopore sizes using radical polymerization of octadecyl methacrylate. Journal of Chromatography A, 2021, 1651, 462282.	3.7	0
21	Produced Î²-hydroxybutyrate after Î²-hydroxy-Î²-methylbutyrate (HMB) administration may contribute HMB function in mice. Biochemistry and Biophysics Reports, 2021, 27, 101097.	1.3	1
22	Interlaboratory study of a supercritical fluid chromatography method for the determination of pharmaceutical impurities: Evaluation of multi-systems reproducibility. Journal of Pharmaceutical and Biomedical Analysis, 2021, 203, 114206.	2.8	14
23	Comparison of Kit-Based Metabolomics with Other Methodologies in a Large Cohort, towards Establishing Reference Values. Metabolites, 2021, 11, 652.	2.9	10
24	Porphyromonas gingivalis induces entero-hepatic metabolic derangements with alteration of gut microbiota in a type 2 diabetes mouse model. Scientific Reports, 2021, 11, 18398.	3.3	19
25	Structural library and visualization of endogenously oxidized phosphatidylcholines using mass spectrometry-based techniques. Nature Communications, 2021, 12, 6339.	12.8	24
26	Detection and structural analysis of pyrimidine-derived radicals generated on DNA using a profluorescent nitroxide probe. Chemical Communications, 2021, 58, 56-59.	4.1	1
27	Enzyme systems involved in glucosinolate metabolism in Companilactobacillus farciminis KB1089. Scientific Reports, 2021, 11, 23715.	3.3	8
28	Performance of small-domain monolithic silica columns in nano-liquid chromatography and comparison with commercial packed bed columns with 2 Âµm particles. Journal of Chromatography A, 2020, 1616, 460804.	3.7	15
29	Development of a novel method for polar metabolite profiling by supercritical fluid chromatography/tandem mass spectrometry. Journal of Chromatography A, 2020, 1632, 461587.	3.7	15
30	Dynamic Metabolome Analysis Reveals the Metabolic Fate of Medium-Chain Fatty Acids in AML12 Cells. Journal of Agricultural and Food Chemistry, 2020, 68, 11997-12010.	5.2	28
31	Possible Involvement of Lipids in the Effectiveness of Kombu in Individuals with Abnormally High Serum Triglyceride Levels. Journal of Nutritional Science and Vitaminology, 2020, 66, 185-190.	0.6	5
32	A shift in glutamine nitrogen metabolism contributes to the malignant progression of cancer. Nature Communications, 2020, 11, 1320.	12.8	141
33	Identification of Acrylamide Adducts Generated during Storage of Canned Milk Coffee. Journal of Agricultural and Food Chemistry, 2020, 68, 3859-3867.	5.2	3
34	Lipidomic Analysis of Cells and Extracellular Vesicles from High- and Low-Metastatic Triple-Negative Breast Cancer. Metabolites, 2020, 10, 67.	2.9	49
35	Metabolic effects of RUBCN/Rubicon deficiency in kidney proximal tubular epithelial cells. Autophagy, 2020, 16, 1889-1904.	9.1	20
36	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. Analytical Chemistry, 2020, 92, 2997-3005.	6.5	11

#	Article	IF	Citations
37	An Analytical System for Single-Cell Metabolomics of Typical Mammalian Cells Based on Highly Sensitive Nano-Liquid Chromatography Tandem Mass Spectrometry. Mass Spectrometry, 2020, 9, A0080-A0080.	0.6	26
38	Lipid Profiling of Serum and Lipoprotein Fractions in Response to Pitavastatin Using an Animal Model of Familial Hypercholesterolemia. Journal of Proteome Research, 2020, 19, 1100-1108.	3.7	10
39	Method for Structural Determination of Lipid-Derived Radicals. Analytical Chemistry, 2020, 92, 6993-7002.	6.5	15
40	Nano-Liquid Chromatography Mass Spectrometry-Based Molecular and Phenotypic Analysis at Single-Cell Resolution. Journal of the Mass Spectrometry Society of Japan, 2020, 68, 44-48.	0.1	1
41	Comparison of Retention Behavior between Supercritical Fluid Chromatography and Normal-Phase High-Performance Liquid Chromatography with Various Stationary Phases. Molecules, 2019, 24, 2425.	3.8	11
42	Inter-Laboratory Comparison of Metabolite Measurements for Metabolomics Data Integration. Metabolites, 2019, 9, 257.	2.9	34
43	A highly sensitive determination method for acrylamide in beverages, grains, and confectioneries by supercritical fluid chromatography tandem mass spectrometry. Food Chemistry, 2019, 294, 486-492.	8.2	25
44	Improved quantitation of lipid classes using supercritical fluid chromatography with a charged aerosol detector. Journal of Lipid Research, 2019, 60, 1465-1474.	4.2	14
45	Identification of novel serum markers for the progression of coronary atherosclerosis in WHHLMI rabbits, an animal model of familial hypercholesterolemia. Atherosclerosis, 2019, 284, 18-23.	0.8	9
46	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-. Food Science and Technology Research, 2019, 25, 827-834.	0.6	6
47	Ameliorating effects of D-47, a newly developed compound, on lipid metabolism in an animal model of familial hypercholesterolemia (WHHLMI rabbits). European Journal of Pharmacology, 2018, 822, 147-153.	3.5	10
48	Alterations in Docosahexaenoic Acid-Related Lipid Cascades in Inflammatory Bowel Disease Model Mice. Digestive Diseases and Sciences, 2018, 63, 1485-1496.	2.3	13
49	Adiponectin/T-cadherin system enhances exosome biogenesis and decreases cellular ceramides by exosomal release. JCI Insight, 2018, 3, .	5.0	122
50	Silica-based hybrid porous layers to enhance the retention and efficiency of open tubular capillary columns with a 5 Î¼m inner diameter. Journal of Chromatography A, 2018, 1580, 63-71.	3.7	25
51	Defective cortex glia plasma membrane structure underlies light-induced epilepsy in cpes mutants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8919-E8928.	7.1	31
52	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. Analytical Chemistry, 2018, 90, 9068-9076.	6.5	24
53	Widely-targeted quantitative lipidomics method by supercritical fluid chromatography triple quadrupole mass spectrometry. Journal of Lipid Research, 2018, 59, 1283-1293.	4.2	94
54	Dietary Intake of Curcumin Improves eIF2 Signaling and Reduces Lipid Levels in the White Adipose Tissue of Obese Mice. Scientific Reports, 2018, 8, 9081.	3.3	23

#	Article	IF	Citations
55	Importance of optimizing chromatographic conditions and mass spectrometric parameters for supercritical fluid chromatography/mass spectrometry. Journal of Chromatography A, 2017, 1508, 138-147.	3.7	48
56	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. Rapid Communications in Mass Spectrometry, 2017, 31, 928-936.	1.5	11
57	Use of onâ€line supercritical fluid extractionâ€supercritical fluid chromatography/tandem mass spectrometry to analyze disease biomarkers in dried serum spots compared with serum analysis using liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2017, 31, 886-894.	1.5	41
58	Intracellular metabolite Î²-glucosylceramide is an endogenous Mincle ligand possessing immunostimulatory activity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3285-E3294.	7.1	129
59	Lipoprotein profiling methodology based on determination of apolipoprotein concentration. Bioanalysis, 2017, 9, 9-19.	1.5	2
60	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950â€“Metabolites in Frozen Human Plasma. Journal of Lipid Research, 2017, 58, 2275-2288.	4.2	312
61	Lipophagy maintains energy homeostasis in the kidney proximal tubule during prolonged starvation. Autophagy, 2017, 13, 1629-1647.	9.1	47
62	Metabolic engineering of oleaginous fungus Mortierella alpina for high production of oleic and linoleic acids. Bioresource Technology, 2017, 245, 1610-1615.	9.6	26
63	Hydrophilic Metabolite Analysis. Journal of the Mass Spectrometry Society of Japan, 2017, 65, 195-198.	0.1	1
64	High-Throughput Simultaneous Analysis of Pesticides by Supercritical Fluid Chromatography Coupled with High-Resolution Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2015, 63, 4457-4463.	5.2	54
65	Lipidomic analysis of plasma lipoprotein fractions in myocardial infarction-prone rabbits. Journal of Bioscience and Bioengineering, 2015, 120, 476-482.	2.2	32
66	Development of Lipidomic Analysis Method by Utilizing Supercritical Fluid Extraction and Separation Technologies. Oleoscience, 2014, 14, 329-336.	0.0	0
67	Supercritical fluid extraction as a preparation method for mass spectrometry of dried blood spots. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 969, 199-204.	2.3	20
68	Practical evaluation of liquid chromatography/tandem mass spectrometry and enzyme immunoassay method for the accurate quantitative analysis of prostaglandins. Journal of Bioscience and Bioengineering, 2014, 118, 116-118.	2.2	3
69	MRM-DIFF: data processing strategy for differential analysis in large scale MRM-based lipidomics studies. Frontiers in Genetics, 2014, 5, 471.	2.3	29
70	Aqueous size-exclusion chromatographic method for the quantification of cyanobacterial native glycogen. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 930, 90-97.	2.3	20
71	Direct conversion of Spirulina to ethanol without pretreatment or enzymatic hydrolysis processes. Energy and Environmental Science, 2013, 6, 1844.	30.8	103
72	A Novel Serum Metabolomics-Based Diagnostic Approach to Pancreatic Cancer. Cancer Epidemiology Biomarkers and Prevention, 2013, 22, 571-579.	2.5	157

#	Article	IF	Citations
73	Dynamic metabolic profiling of cyanobacterial glycogen biosynthesis under conditions of nitrate depletion. Journal of Experimental Botany, 2013, 64, 2943-2954.	4.8	132
74	Butyrate Attenuates Inflammation and Lipolysis Generated by the Interaction of Adipocytes and Macrophages. Journal of Atherosclerosis and Thrombosis, 2013, 20, 425-442.	2.0	157
75	Metabolomic analysis to discover candidate therapeutic agents against acute pancreatitis. Archives of Biochemistry and Biophysics, 2012, 522, 107-120.	3.0	22
76	A Novel Serum Metabolomics-Based Diagnostic Approach for Colorectal Cancer. PLoS ONE, 2012, 7, e40459.	2.5	227
77	Application of electrospray ionization ion trap/time-of-flight mass spectrometry for chemically-synthesized small RNAs. Journal of Bioscience and Bioengineering, 2012, 113, 412-419.	2.2	13
78	Widely targeted metabolic profiling analysis of yeast central metabolites. Journal of Bioscience and Bioengineering, 2012, 113, 665-673.	2.2	94
79	Regulation of the metabolite profile by an <scp>APC</scp> gene mutation in colorectal cancer. Cancer Science, 2012, 103, 1010-1021.	3.9	33
80	Diagnosis of gastroenterological diseases by metabolome analysis using gas chromatographyâ€“mass spectrometry. Journal of Gastroenterology, 2012, 47, 9-20.	5.1	74
81	Simultaneous quantification of lignans in Arabidopsis thaliana by highly sensitive capillary liquid chromatography-electrospray ionization-ion trap mass spectrometry. Plant Biotechnology, 2011, 28, 287-293.	1.0	13
82	Reproductive organs regulate leaf nitrogen metabolism mediated by cytokinin signal. Planta, 2009, 229, 633-644.	3.2	23
83	High-resolution spatial and temporal analysis of phytoalexin production in oats. Planta, 2009, 229, 931-943.	3.2	20
84	Development of a method for comprehensive and quantitative analysis of plant hormones by highly sensitive nanoflow liquid chromatographyâ€“electrospray ionization-ion trap mass spectrometry. Analytica Chimica Acta, 2009, 648, 215-225.	5.4	134
85	Line-Scanning Microscopy for Time-Gated and Spectrally Resolved Fluorescence Imaging. Journal of Biological Physics, 2008, 34, 51-62.	1.5	3
86	A novel microsurgery method for intact plant tissue at the single cell level using ArF excimer laser microprojection. Biotechnology and Bioengineering, 2006, 93, 325-331.	3.3	6