

Eiichiro Fukusaki

List of Publications by Year in descending order

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302
papers

10,502
citations

26610

56
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54882

84
g-index

307
all docs

307
docs citations

307
times ranked

14125
citing authors

#	ARTICLE	IF	CITATIONS
1	Chloroplast-mediated activation of plant immune signalling in Arabidopsis. Nature Communications, 2012, 3, 926.	5.8	332
2	Time-course metabolic profiling in Arabidopsis thaliana cell cultures after salt stress treatment*. Journal of Experimental Botany, 2007, 58, 415-424.	2.4	256
3	Current metabolomics: Practical applications. Journal of Bioscience and Bioengineering, 2013, 115, 579-589.	1.1	245
4	Current metabolomics: Technological advances. Journal of Bioscience and Bioengineering, 2013, 116, 9-16.	1.1	178
5	GC/MS based metabolomics: development of a data mining system for metabolite identification by using soft independent modeling of class analogy (SIMCA). BMC Bioinformatics, 2011, 12, 131.	1.2	171
6	Prediction of Japanese Green Tea Ranking by Gas Chromatography/Mass Spectrometry-Based Hydrophilic Metabolite Fingerprinting. Journal of Agricultural and Food Chemistry, 2007, 55, 231-236.	2.4	169
7	Plant metabolomics: potential for practical operation. Journal of Bioscience and Bioengineering, 2005, 100, 347-354.	1.1	158
8	Development of a method for comprehensive and quantitative analysis of plant hormones by highly sensitive nanoflow liquid chromatography-electrospray ionization-ion trap mass spectrometry. Analytica Chimica Acta, 2009, 648, 215-225.	2.6	134
9	Serum metabolomics as a novel diagnostic approach for gastrointestinal cancer. Biomedical Chromatography, 2012, 26, 548-558.	0.8	133
10	Glutamate Acts as a Key Signal Linking Glucose Metabolism to Incretin/cAMP Action to Amplify Insulin Secretion. Cell Reports, 2014, 9, 661-673.	2.9	128
11	High throughput and exhaustive analysis of diverse lipids by using supercritical fluid chromatography-mass spectrometry for metabolomics. Journal of Bioscience and Bioengineering, 2008, 105, 460-469.	1.1	122
12	Adiponectin/T-cadherin system enhances exosome biogenesis and decreases cellular ceramides by exosomal release. JCI Insight, 2018, 3, .	2.3	122
13	Simultaneous analysis for water- and fat-soluble vitamins by a novel single chromatography technique unifying supercritical fluid chromatography and liquid chromatography. Journal of Chromatography A, 2014, 1362, 270-277.	1.8	121
14	¹ H NMR Based Metabolic Profiling in the Evaluation of Japanese Green Tea Quality. Journal of Agricultural and Food Chemistry, 2007, 55, 9330-9336.	2.4	120
15	Metabolic profiling of lipids by supercritical fluid chromatography/mass spectrometry. Journal of Chromatography A, 2012, 1250, 212-219.	1.8	118
16	Metabolic turnover analysis by a combination of in vivo ¹³ C-labelling from ¹³ CO ₂ and metabolic profiling with CE-MS/MS reveals rate-limiting steps of the C ₃ photosynthetic pathway in Nicotiana tabacum leaves. Journal of Experimental Botany, 2010, 61, 1041-1051.	2.4	117
17	Flower color modulations of Torenia hybrida by downregulation of chalcone synthase genes with RNA interference. Journal of Biotechnology, 2004, 111, 229-240.	1.9	116
18	Cloning and Characterization of Mevalonate Pathway Genes in a Natural Rubber Producing Plant, <i>Hevea brasiliensis</i> . Bioscience, Biotechnology and Biochemistry, 2008, 72, 2049-2060.	0.6	115

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19	High-Throughput Technique for Comprehensive Analysis of Japanese Green Tea Quality Assessment Using Ultra-performance Liquid Chromatography with Time-of-Flight Mass Spectrometry (UPLC/TOF) <i>Tj ETQq1 1 0.284314 rgB4/Over</i>	3.4	114
20	Bulk <i>scp>RNA</scp></i> degradation by nitrogen starvationâ€”induced autophagy in yeast. <i>EMBO Journal</i> , 2015, 34, 154-168.	3.5	114
21	Development of a lipid profiling system using reverse-phase liquid chromatography coupled to high-resolution mass spectrometry with rapid polarity switching and an automated lipid identification software. <i>Journal of Chromatography A</i> , 2013, 1292, 211-218.	1.8	112
22	Practical non-targeted gas chromatography/mass spectrometry-based metabolomics platform for metabolic phenotype analysis. <i>Journal of Bioscience and Bioengineering</i> , 2011, 112, 292-298.	1.1	108
23	Serum metabolomics as a novel diagnostic approach for pancreatic cancer. <i>Metabolomics</i> , 2010, 6, 518-528.	1.4	105
24	<i>Drosophila</i> Sirt2/mammalian SIRT3 deacetylates ATP synthase F_2 and regulates complex V activity. <i>Journal of Cell Biology</i> , 2014, 206, 289-305.	2.3	104
25	MRMPROBS: A Data Assessment and Metabolite Identification Tool for Large-Scale Multiple Reaction Monitoring Based Widely Targeted Metabolomics. <i>Analytical Chemistry</i> , 2013, 85, 5191-5199.	3.2	102
26	Simultaneous profiling of polar lipids by supercritical fluid chromatography/tandem mass spectrometry with methylation. <i>Journal of Chromatography A</i> , 2013, 1279, 98-107.	1.8	95
27	Supercritical fluid chromatography/Orbitrap mass spectrometry based lipidomics platform coupled with automated lipid identification software for accurate lipid profiling. <i>Journal of Chromatography A</i> , 2013, 1301, 237-242.	1.8	94
28	Selection of Discriminant Markers for Authentication of Asian Palm Civet Coffee (Kopi Luwak): A Metabolomics Approach. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 7994-8001.	2.4	93
29	Application of supercritical fluid chromatography/mass spectrometry to lipid profiling of soybean. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 262-268.	1.1	85
30	GCâ€”MSâ€”based metabolomics reveals mechanism of action for hydrazine induced hepatotoxicity in rats. <i>Journal of Applied Toxicology</i> , 2011, 31, 524-535.	1.4	84
31	The complete nucleotide sequence of the xylanase gene (<i>xynA</i>) of <i>Bacillus pumilus</i> . <i>FEBS Letters</i> , 1984, 171, 197-201.	1.3	82
32	Supergiant Ampholytic Sugar Chains with Imbalanced Charge Ratio Form Saline Ultra-absorbent Hydrogels. <i>Macromolecules</i> , 2008, 41, 4061-4064.	2.2	81
33	Predication of Japanese green tea (Sen-cha) ranking by volatile profiling using gas chromatography mass spectrometry and multivariate analysis. <i>Journal of Bioscience and Bioengineering</i> , 2011, 112, 252-255.	1.1	80
34	Metabolomics-driven approach to solving a CoA imbalance for improved 1-butanol production in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2017, 41, 135-143.	3.6	79
35	Highly sensitive and accurate profiling of carotenoids by supercritical fluid chromatography coupled with mass spectrometry. <i>Journal of Separation Science</i> , 2009, 32, 1459-1464.	1.3	78
36	High-throughput phospholipid profiling system based on supercritical fluid extractionâ€”supercritical fluid chromatography/mass spectrometry for dried plasma spot analysis. <i>Journal of Chromatography A</i> , 2012, 1250, 69-75.	1.8	78

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37	Vascular plant oneâ€Zincâ€finger protein 1/2 transcription factors regulate abiotic and biotic stress responses in Arabidopsis. <i>Plant Journal</i> , 2013, 73, 761-775.	2.8	78
38	Overexpression of an ADPâ€ribose pyrophosphatase, <i>AtNUDX2</i> , confers enhanced tolerance to oxidative stress in Arabidopsis plants. <i>Plant Journal</i> , 2009, 57, 289-301.	2.8	77
39	Modulation of the Poly(ADP-ribosyl)ation Reaction via the Arabidopsis ADP-Ribose/NADH Pyrophosphohydrolase, <i>AtNUDX7</i> , Is Involved in the Response to Oxidative Stress. <i>Plant Physiology</i> , 2009, 151, 741-754.	2.3	75
40	High-throughput simultaneous analysis of pesticides by supercritical fluid chromatography/tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1266, 143-148.	1.8	73
41	Metabolic profiling of urine and blood plasma in rat models of drug addiction on the basis of morphine, methamphetamine, and cocaine-induced conditioned place preference. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1339-1354.	1.9	72
42	Cloning and Characterization of the 2- <i>C</i> -Methyl-erythritol 4-Phosphate (MEP) Pathway Genes of a Natural-Rubber Producing Plant, <i>Hevea brasiliensis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 2903-2917.	0.6	71
43	Influences of methamphetamine-induced acute intoxication on urinary and plasma metabolic profiles in the rat. <i>Toxicology</i> , 2011, 287, 29-37.	2.0	71
44	<i>AtNUDX6</i> , an ADP-Ribose/NADH Pyrophosphohydrolase in Arabidopsis, Positively Regulates NPR1-Dependent Salicylic Acid Signaling. <i>Plant Physiology</i> , 2010, 152, 2000-2012.	2.3	69
45	Molar-Based Targeted Metabolic Profiling of Cyanobacterial Strains with Potential for Biological Production. <i>Metabolites</i> , 2014, 4, 499-516.	1.3	69
46	Gas chromatography/mass spectrometry based component profiling and quality prediction for Japanese sake. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 406-414.	1.1	69
47	Metabolomics-based component profiling of hard and semi-hard natural cheeses with gas chromatography/time-of-flight-mass spectrometry, and its application to sensory predictive modeling. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 751-758.	1.1	63
48	Analysis of the correlation between dipeptides and taste differences among soy sauces by using metabolomics-based component profiling. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 56-63.	1.1	63
49	Quantitative analysis of anionic metabolites for <i>Catharanthus roseus</i> by capillary electrophoresis using sulfonated capillary coupled with electrospray ionization-tandem mass spectrometry. <i>Journal of Bioscience and Bioengineering</i> , 2008, 105, 249-260.	1.1	62
50	Influence of yeast and lactic acid bacterium on the constituent profile of soy sauce during fermentation. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 203-208.	1.1	62
51	DNA as a â€Nanomaterialâ€™. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 28, 155-166.	1.8	61
52	Pressure-assisted capillary electrophoresis mass spectrometry using combination of polarity reversion and electroosmotic flow for metabolomics anion analysis. <i>Journal of Bioscience and Bioengineering</i> , 2006, 101, 403-409.	1.1	61
53	Distinct signatures of dental plaque metabolic byproducts dictated by periodontal inflammatory status. <i>Scientific Reports</i> , 2017, 7, 42818.	1.6	61
54	Metabolomicsâ€based systematic prediction of yeast lifespan and its application for semiâ€rational screening of ageingâ€related mutants. <i>Aging Cell</i> , 2010, 9, 616-625.	3.0	60

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55	Metabolic profiling of <i>Angelica acutiloba</i> roots utilizing gas chromatography-“time-of-flight” mass spectrometry for quality assessment based on cultivation area and cultivar via multivariate pattern recognition. <i>Journal of Bioscience and Bioengineering</i> , 2008, 105, 655-659.	1.1	58
56	Quality Evaluation and Prediction of <i>Citrullus lanatus</i> by ¹ H NMR-Based Metabolomics and Multivariate Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 5827-5835.	2.4	58
57	Influences of biofluid sample collection and handling procedures on GC-MS based metabolomic studies. <i>Journal of Bioscience and Bioengineering</i> , 2010, 110, 491-499.	1.1	58
58	Metabolic Profiling Approach To Explore Compounds Related to the Umami Intensity of Soy Sauce. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 7317-7322.	2.4	58
59	Prediction of Japanese Green Tea Ranking by Fourier Transform Near-Infrared Reflectance Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 9908-9912.	2.4	57
60	Profiling of regioisomeric triacylglycerols in edible oils by supercritical fluid chromatography/tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 966, 193-199.	1.2	57
61	In vitro selection of hematoporphyrin binding DNA aptamers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 2653-2656.	1.0	56
62	Simultaneous and rapid analysis of bile acids including conjugates by supercritical fluid chromatography coupled to tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1299, 103-109.	1.8	56
63	Free D-amino acids produced by commensal bacteria in the colonic lumen. <i>Scientific Reports</i> , 2018, 8, 17915.	1.6	55
64	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.	2.4	54
65	Quality evaluation of <i>Angelica acutiloba</i> Kitagawa roots by ¹ H NMR-based metabolic fingerprinting. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 42-48.	1.4	53
66	Highly sensitive and selective analysis of widely targeted metabolomics using gas chromatography/triple-quadrupole mass spectrometry. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 122-128.	1.1	52
67	GC/MS based metabolite profiling of Indonesian specialty coffee from different species and geographical origin. <i>Metabolomics</i> , 2019, 15, 126.	1.4	52
68	Quality Prediction of Japanese Green Tea Using Pyrolyzer Coupled GC/MS Based Metabolic Fingerprinting. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 744-750.	2.4	51
69	Microbe participation in aroma production during soy sauce fermentation. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 688-694.	1.1	51
70	Quantification of coffee blends for authentication of Asian palm civet coffee (Kopi Luwak) via metabolomics: A proof of concept. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 79-84.	1.1	50
71	Tandem Mass Spectrometry Imaging Reveals Distinct Accumulation Patterns of Steroid Structural Isomers in Human Adrenal Glands. <i>Analytical Chemistry</i> , 2019, 91, 8918-8925.	3.2	48
72	Histochemical study of detailed laticifer structure and rubber biosynthesis-related protein localization in <i>Hevea brasiliensis</i> using spectral confocal laser scanning microscopy. <i>Planta</i> , 2009, 230, 215-225.	1.6	47

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73	Development of a liquid chromatography-tandem mass spectrometry method for quantitative analysis of trace d-amino acids. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 134-138.	1.1	47
74	Hypoxanthine Secretion from Human Adipose Tissue and its Increase in Hypoxia. <i>Obesity</i> , 2018, 26, 1168-1178.	1.5	47
75	Ceramide kinase regulates phospholipase C and phosphatidylinositol 4, 5, bisphosphate in phototransduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20063-20068.	3.3	45
76	New Insight into the Role of the Calvin Cycle: Reutilization of CO ₂ Emitted through Sugar Degradation. <i>Scientific Reports</i> , 2015, 5, 11617.	1.6	45
77	Lipase-catalyzed kinetic resolution of methyl 4-hydroxy-5-tetradecynoate and its application to a facile synthesis of Japanese beetle pheromone. <i>Tetrahedron</i> , 1991, 47, 6223-6230.	1.0	44
78	Fast GC-MS based metabolic fingerprinting of Japanese green tea leaf for its quality ranking prediction. <i>Journal of Separation Science</i> , 2009, 32, 2296-2304.	1.3	43
79	Development of oxidized phosphatidylcholine isomer profiling method using supercritical fluid chromatography/tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1250, 205-211.	1.8	43
80	Metabolite profiling of soy sauce using gas chromatography with time-of-flight mass spectrometry and analysis of correlation with quantitative descriptive analysis. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 170-175.	1.1	42
81	High-throughput and sensitive analysis of 3-monochloropropane-1,2-diol fatty acid esters in edible oils by supercritical fluid chromatography/tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1250, 99-104.	1.8	42
82	Methanol production is enhanced by expression of an <i>Aspergillus niger</i> pectin methylesterase in tobacco cells. <i>Journal of Biotechnology</i> , 2003, 106, 45-52.	1.9	41
83	Canonical correlation analysis for multivariate regression and its application to metabolic fingerprinting. <i>Biochemical Engineering Journal</i> , 2008, 40, 199-204.	1.8	40
84	Changes in Transcription and Metabolism During the Early Stage of Replicative Cellular Senescence in Budding Yeast. <i>Journal of Biological Chemistry</i> , 2014, 289, 32081-32093.	1.6	40
85	Metabolite analysis by supercritical fluid chromatography. <i>Bioanalysis</i> , 2010, 2, 27-34.	0.6	39
86	Metabolomic approach for improving ethanol stress tolerance in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 399-405.	1.1	39
87	Increased Dynamics of Tricarboxylic Acid Cycle and Glutamate Synthesis in Obese Adipose Tissue. <i>Journal of Biological Chemistry</i> , 2017, 292, 4469-4483.	1.6	39
88	Expression of fungal pectin methylesterase in transgenic tobacco leads to alteration in cell wall metabolism and a dwarf phenotype. <i>Journal of Biotechnology</i> , 2004, 111, 241-251.	1.9	38
89	Integrated Strategy for Unknown MS Identification Using Quality Control Calibration Curve, Multivariate Analysis, MS Spectral Database, and Retention Index Prediction. <i>Analytical Chemistry</i> , 2017, 89, 6766-6773.	3.2	38
90	Novel high-throughput and widely-targeted liquid chromatography-time of flight mass spectrometry method for d-amino acids in foods. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 126-133.	1.1	38

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91	Tailor-made poly- γ -glutamic acid production. <i>Metabolic Engineering</i> , 2019, 55, 239-248.	3.6	38
92	Metabolome Analysis of <i>Drosophila melanogaster</i> during Embryogenesis. <i>PLoS ONE</i> , 2014, 9, e99519.	1.1	37
93	High-accuracy analysis system for the redox status of coenzyme Q10 by online supercritical fluid extraction $\text{\textcircled{C}}$ supercritical fluid chromatography/mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1250, 76-79.	1.8	36
94	Production of <i>Eucommia</i> -rubber from <i>Eucommia ulmoides</i> Oliv. (Hardy Rubber Tree). <i>Plant Biotechnology</i> , 2009, 26, 71-79.	0.5	34
95	Sphingosine kinases and their metabolites modulate endolysosomal trafficking in photoreceptors. <i>Journal of Cell Biology</i> , 2011, 192, 557-567.	2.3	34
96	Method for Assessing the Statistical Significance of Mass Spectral Similarities Using Basic Local Alignment Search Tool Statistics. <i>Analytical Chemistry</i> , 2013, 85, 8291-8297.	3.2	34
97	Supercritical fluid chromatography/mass spectrometry in metabolite analysis. <i>Bioanalysis</i> , 2014, 6, 1679-1689.	0.6	34
98	Application of gas chromatography/flame ionization detector-based metabolite fingerprinting for authentication of Asian palm civet coffee (Kopi Luwak). <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 555-561.	1.1	34
99	In Vivo ^{15}N -Enrichment of Metabolites in Suspension Cultured Cells and Its Application to Metabolomics. <i>Biotechnology Progress</i> , 2006, 22, 1003-1011.	1.3	33
100	Extra-facile chiral separation of amino acid enantiomers by LC-TOFMS analysis. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 349-353.	1.1	33
101	Iterative cycle of widely targeted metabolic profiling for the improvement of 1-butanol titer and productivity in <i>Synechococcus elongatus</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 188.	6.2	33
102	GC-MS Based Metabolite Profiling to Monitor Ripening-Specific Metabolites in Pineapple (<i>Ananas</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	33
103	Expression of a xylanase gene of <i>Bacillus pumilus</i> in <i>Escherichia coli</i> and <i>Bacillus subtilis</i> . <i>Applied Microbiology and Biotechnology</i> , 1985, 22, 259.	1.7	32
104	Non $\text{\textcircled{C}}$ targeted metabolite fingerprinting of oriental folk medicine <i>Angelica acutiloba</i> roots by ultra performance liquid chromatography time $\text{\textcircled{C}}$ of $\text{\textcircled{C}}$ flight mass spectrometry. <i>Journal of Separation Science</i> , 2009, 32, 2233-2244.	1.3	32
105	A novel application of metabolomics in vertebrate development. <i>Biochemical and Biophysical Research Communications</i> , 2009, 386, 268-272.	1.0	32
106	Lipidomic analysis of plasma lipoprotein fractions in myocardial infarction-prone rabbits. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 476-482.	1.1	32
107	Planteose as a storage carbohydrate required for early stage of germination of <i>Orobanche minor</i> and its metabolism as a possible target for selective control. <i>Journal of Experimental Botany</i> , 2015, 66, 3085-3097.	2.4	32
108	Metabolome analysis reveals the effect of carbon catabolite control on the poly(γ -glutamic acid) biosynthesis of <i>Bacillus licheniformis</i> ATCC 9945. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 413-419.	1.1	32

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109	Metabolic engineering for isopropanol production by an engineered cyanobacterium, <i>Synechococcus elongatus</i> PCC 7942, under photosynthetic conditions. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 39-45.	1.1	32
110	Development of a practical metabolite identification technique for non-targeted metabolomics. <i>Journal of Chromatography A</i> , 2013, 1301, 73-79.	1.8	31
111	Epigenetic regulation of starvation-induced autophagy in <i>Drosophila</i> by histone methyltransferase G9a. <i>Scientific Reports</i> , 2017, 7, 7343.	1.6	31
112	Inflammation and Resolution Are Associated with Upregulation of Fatty Acid β -Oxidation in Zymosan-Induced Peritonitis. <i>PLoS ONE</i> , 2013, 8, e66270.	1.1	31
113	Application of gas chromatography-mass spectrometry-based metabolomics in food science and technology. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 425-435.	1.1	31
114	High-efficiency bioaffinity separation of cells and proteins using novel thermoresponsive biotinylated magnetic nanoparticles. <i>Nanobiotechnology</i> , 2006, 2, 43-49.	1.2	30
115	Glutamate production from ammonia via glutamate dehydrogenase 2 activity supports cancer cell proliferation under glutamine depletion. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 761-767.	1.0	30
116	Structure and expression of genes coding for xylan-degrading enzymes of <i>Bacillus pumilus</i> . <i>FEBS Journal</i> , 1987, 166, 539-545.	0.2	29
117	GABA metabolism pathway genes, UGA1 and GAD1, regulate replicative lifespan in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 185-190.	1.0	29
118	Metabolic profiling of β -cryptoxanthin and its fatty acid esters by supercritical fluid chromatography coupled with triple quadrupole mass spectrometry. <i>Journal of Separation Science</i> , 2011, 34, 3546-3552.	1.3	29
119	MRM-DIFF: data processing strategy for differential analysis in large scale MRM-based lipidomics studies. <i>Frontiers in Genetics</i> , 2014, 5, 471.	1.1	29
120	A metabolomics-based strategy for identification of gene targets for phenotype improvement and its application to 1-butanol tolerance in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2015, 8, 144.	6.2	29
121	Integrated metabolite and gene expression profiling revealing phytochrome A regulation of polyamine biosynthesis of <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2008, 59, 1187-1200.	2.4	28
122	Profiling of primary metabolite by means of capillary electrophoresis-mass spectrometry and its application for plant science. <i>Plant Biotechnology</i> , 2009, 26, 47-52.	0.5	28
123	Quantitative target analysis and kinetic profiling of acyl-CoAs reveal the rate-limiting step in cyanobacterial 1-butanol production. <i>Metabolomics</i> , 2016, 12, 26.	1.4	28
124	Mechanistic study on the high-selectivity enantioseparation of amino acids using a chiral crown ether-bonded stationary phase and acidic, highly organic mobile phase by liquid chromatography/time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1578, 35-44.	1.8	28
125	Identification of Metabolites Associated with Onset of CAD in Diabetic Patients Using CE-MS Analysis: A Pilot Study. <i>Journal of Atherosclerosis and Thrombosis</i> , 2019, 26, 233-245.	0.9	28
126	Development of a practical online supercritical fluid extraction–supercritical fluid chromatography/mass spectrometry system with an integrated split-flow method. <i>Journal of Chromatography A</i> , 2019, 1592, 161-172.	1.8	28

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127	Metabolite profiles of polyhydroxyalkanoate-producing <i>Ralstonia eutropha</i> H16. <i>Metabolomics</i> , 2014, 10, 190-202.	1.4	27
128	Influence of nitrogen source and pH value on undesired poly(β -glutamic acid) formation of a protease producing <i>Bacillus licheniformis</i> strain. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 1203-1215.	1.4	27
129	Poly- β -glutamic acid production by <i>Bacillus subtilis</i> 168 using glucose as the sole carbon source: A metabolomic analysis. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 272-282.	1.1	26
130	High-sensitive liquid chromatography-tandem mass spectrometry-based chiral metabolic profiling focusing on amino acids and related metabolites. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 520-527.	1.1	25
131	Orthogonal partial least squares/projections to latent structures regression-based metabolomics approach for identification of gene targets for improvement of 1-butanol production in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 498-505.	1.1	24
132	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.	3.2	24
133	Efficient kinetic resolution of organosilicon compounds by stereoselective esterification with hydrolases in organic solvent. <i>Applied Microbiology and Biotechnology</i> , 1993, 38, 482.	1.7	23
134	Sex Pheromonal Activity of Geometric and Optical Isomers of Synthetic Contact Pheromone to Males of the Yellow-Spotted Longicorn Beetle, <i>Psacotha hilaris</i> (PASCOE) (Coleoptera: Cerambycidae). <i>Applied Entomology and Zoology</i> , 1997, 32, 654-656.	0.6	23
135	Removal of Magnesium by Mg-dechelataase Is a Major Step in the Chlorophyll-Degrading Pathway in <i>Ginkgo biloba</i> in the Process of Autumnal Tints. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2000, 55, 923-926.	0.6	23
136	Reproductive organs regulate leaf nitrogen metabolism mediated by cytokinin signal. <i>Planta</i> , 2009, 229, 633-644.	1.6	23
137	Application of supercritical fluid carbon dioxide to the extraction and analysis of lipids. <i>Bioanalysis</i> , 2012, 4, 2413-2422.	0.6	23
138	Metabolic fingerprinting of hard and semi-hard natural cheeses using gas chromatography with flame ionization detector for practical sensory prediction modeling. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 506-511.	1.1	23
139	Survival Response to Increased Ceramide Involves Metabolic Adaptation through Novel Regulators of Glycolysis and Lipolysis. <i>PLoS Genetics</i> , 2013, 9, e1003556.	1.5	23
140	Determination of Niacin and Its Metabolites Using Supercritical Fluid Chromatography Coupled to Tandem Mass Spectrometry. <i>Mass Spectrometry</i> , 2014, 3, A0029-A0029.	0.2	23
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