Eiichiro Fukusaki

List of Publications by Citations

290 papers	8,203 citations	52 h-index	75 g-index
307 ext. papers	9,420 ext. citations	4 avg, IF	6.15 L-index

#	Paper	IF	Citations
290	Chloroplast-mediated activation of plant immune signalling in Arabidopsis. *Nature Communications*, **2012**, 3, 926	17.4	252
289	Time-course metabolic profiling in Arabidopsis thaliana cell cultures after salt stress treatment. *Journal of Experimental Botany*, **2007**, 58, 415-24	7	230
288	Current metabolomics: practical applications. *Journal of Bioscience and Bioengineering*, **2013**, 115, 579-89	3.3	188
287	Prediction of Japanese green tea ranking by gas chromatography/mass spectrometry-based hydrophilic metabolite fingerprinting. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 231-6	5.7	153
286	Current metabolomics: technological advances. *Journal of Bioscience and Bioengineering*, **2013**, 116, 9-16	3.3	143
285	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	3.6	141
284	Plant metabolomics: potential for practical operation. *Journal of Bioscience and Bioengineering*, **2005**, 100, 347-54	3.3	139
283	High throughput and exhaustive analysis of diverse lipids by using supercritical fluid chromatography-mass spectrometry for metabolomics. *Journal of Bioscience and Bioengineering*, **2008**, 105, 460-9	3.3	116
282	Serum metabolomics as a novel diagnostic approach for gastrointestinal cancer. *Biomedical Chromatography*, **2012**, 26, 548-58	1.7	110
281	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, 215-25	6.6	108
280	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 MS). *Journal of Agricultural and Food Chemistry*, **2008**, 56, 10705-8	5.7	103
279	1H NMR based metabolic profiling in the evaluation of Japanese green tea quality. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 9330-6	5.7	103
278	Metabolic profiling of lipids by supercritical fluid chromatography/mass spectrometry. *Journal of Chromatography A*, **2012**, 1250, 212-9	4.5	102
277	Metabolic turnover analysis by a combination of in vivo 13C-labelling from 13CO2 and metabolic profiling with CE-MS/MS reveals rate-limiting steps of the C3 photosynthetic pathway in Nicotiana tabacum leaves. *Journal of Experimental Botany*, **2010**, 61, 1041-51	7	97
276	Serum metabolomics as a novel diagnostic approach for pancreatic cancer. *Metabolomics*, **2010**, 6, 518-528	4.7	97
275	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, 270-7	4.5	95
274	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. *Journal of Chromatography A*, **2013**, 1292, 211-8	4.5	95

273	Glutamate acts as a key signal linking glucose metabolism to incretin/cAMP action to amplify insulin secretion. *Cell Reports*, **2014**, 9, 661-73	10.6	94
272	Practical non-targeted gas chromatography/mass spectrometry-based metabolomics platform for metabolic phenotype analysis. *Journal of Bioscience and Bioengineering*, **2011**, 112, 292-8	3.3	94
271	Cloning and characterization of mevalonate pathway genes in a natural rubber producing plant, Hevea brasiliensis. *Bioscience, Biotechnology and Biochemistry*, **2008**, 72, 2049-60	2.1	93
270	Flower color modulations of Torenia hybrida by downregulation of chalcone synthase genes with RNA interference. *Journal of Biotechnology*, **2004**, 111, 229-40	3.7	88
269	Supercritical fluid chromatography/Orbitrap mass spectrometry based lipidomics platform coupled with automated lipid identification software for accurate lipid profiling. *Journal of Chromatography A*, **2013**, 1301, 237-42	4.5	86
268	Bulk RNA degradation by nitrogen starvation-induced autophagy in yeast. *EMBO Journal*, **2015**, 34, 154-68	9	79
267	Application of supercritical fluid chromatography/mass spectrometry to lipid profiling of soybean. *Journal of Bioscience and Bioengineering*, **2012**, 113, 262-8	3.3	78
266	Simultaneous profiling of polar lipids by supercritical fluid chromatography/tandem mass spectrometry with methylation. *Journal of Chromatography A*, **2013**, 1279, 98-107	4.5	78
265	Selection of discriminant markers for authentication of Asian palm civet coffee (Kopi Luwak): a metabolomics approach. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 7994-8001	5.7	76
264	GC-MS-based metabolomics reveals mechanism of action for hydrazine induced hepatotoxicity in rats. *Journal of Applied Toxicology*, **2011**, 31, 524-35	4.1	74
263	High-throughput phospholipid profiling system based on supercritical fluid extraction-supercritical fluid chromatography/mass spectrometry for dried plasma spot analysis. *Journal of Chromatography A*, **2012**, 1250, 69-75	4.5	73
262	Highly sensitive and accurate profiling of carotenoids by supercritical fluid chromatography coupled with mass spectrometry. *Journal of Separation Science*, **2009**, 32, 1459-64	3.4	73
261	Drosophila Sirt2/mammalian SIRT3 deacetylates ATP synthase and regulates complex V activity. *Journal of Cell Biology*, **2014**, 206, 289-305	7.3	71
260	The complete nucleotide sequence of the xylanase gene (xynA) of Bacillus pumilus. *FEBS Letters*, **1984**, 171, 197-201	3.8	70
259	Adiponectin/T-cadherin system enhances exosome biogenesis and decreases cellular ceramides by exosomal release. *JCI Insight*, **2018**, 3,	9.9	68
258	MRMPROBS: a data assessment and metabolite identification tool for large-scale multiple reaction monitoring based widely targeted metabolomics. *Analytical Chemistry*, **2013**, 85, 5191-9	7.8	67
257	High-throughput simultaneous analysis of pesticides by supercritical fluid chromatography/tandem mass spectrometry. *Journal of Chromatography A*, **2012**, 1266, 143-8	4.5	66
256	Metabolomics-driven approach to solving a CoA imbalance for improved 1-butanol production in Escherichia coli. *Metabolic Engineering*, **2017**, 41, 135-143	9.7	65

255	Modulation of the poly(ADP-ribosyl)ation reaction via the Arabidopsis ADP-ribose/NADH pyrophosphohydrolase, AtNUDX7, is involved in the response to oxidative stress. *Plant Physiology*, **2009**, 151, 741-54	6.6	65
254	Overexpression of an ADP-ribose pyrophosphatase, AtNUDX2, confers enhanced tolerance to oxidative stress in Arabidopsis plants. *Plant Journal*, **2009**, 57, 289-301	6.9	65
253	Influences of methamphetamine-induced acute intoxication on urinary and plasma metabolic profiles in the rat. *Toxicology*, **2011**, 287, 29-37	4.4	63
252	Predication of Japanese green tea (Sen-cha) ranking by volatile profiling using gas chromatography mass spectrometry and multivariate analysis. *Journal of Bioscience and Bioengineering*, **2011**, 112, 252-5	3.3	63
251	AtNUDX6, an ADP-ribose/NADH pyrophosphohydrolase in Arabidopsis, positively regulates NPR1-dependent salicylic acid signaling. *Plant Physiology*, **2010**, 152, 2000-12	6.6	62
250	Supergiant Ampholytic Sugar Chains with Imbalanced Charge Ratio Form Saline Ultra-absorbent Hydrogels. *Macromolecules*, **2008**, 41, 4061-4064	5.5	62
249	Cloning and characterization of the 2-C-methyl-D-erythritol 4-phosphate (MEP) pathway genes of a natural-rubber producing plant, Hevea brasiliensis. *Bioscience, Biotechnology and Biochemistry*, **2008** , 72, 2903-17	2.1	59
248	Pressure-assisted capillary electrophoresis mass spectrometry using combination of polarity reversion and electroosmotic flow for metabolomics anion analysis. *Journal of Bioscience and Bioengineering*, **2006**, 101, 403-9	3.3	58
247	Quantitative analysis of anionic metabolites for Catharanthus roseus by capillary electrophoresis using sulfonated capillary coupled with electrospray ionization-tandem mass spectrometry. *Journal of Bioscience and Bioengineering*, **2008**, 105, 249-60	3.3	56
246	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. *Journal of Bioscience and Bioengineering*, **2012**, 113, 751-8	3.3	55
245	Metabolic profiling of Angelica acutiloba roots utilizing gas chromatography-time-of-flight-mass spectrometry for quality assessment based on cultivation area and cultivar via multivariate pattern recognition. *Journal of Bioscience and Bioengineering*, **2008**, 105, 655-9	3.3	55
244	Quality evaluation and prediction of Citrullus lanatus by 1H NMR-based metabolomics and multivariate analysis. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 5827-35	5.7	55
243	Gas chromatography/mass spectrometry based component profiling and quality prediction for Japanese sake. *Journal of Bioscience and Bioengineering*, **2014**, 118, 406-14	3.3	54
242	Vascular plant one-zinc-finger protein 1/2 transcription factors regulate abiotic and biotic stress responses in Arabidopsis. *Plant Journal*, **2013**, 73, 761-75	6.9	53
241	Molar-based targeted metabolic profiling of cyanobacterial strains with potential for biological production. *Metabolites*, **2014**, 4, 499-516	5.6	53
240	Metabolomics-based systematic prediction of yeast lifespan and its application for semi-rational screening of ageing-related mutants. *Aging Cell*, **2010**, 9, 616-25	9.9	53
239	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. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 1339-54	4.4	52
238	Influences of biofluid sample collection and handling procedures on GC-MS based metabolomic studies. *Journal of Bioscience and Bioengineering*, **2010**, 110, 491-9	3.3	52

237	Quality evaluation of Angelica acutiloba Kitagawa roots by 1H NMR-based metabolic fingerprinting. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 48, 42-8	3.5	52
236	DNA as a Nanomaterial. *Journal of Molecular Catalysis B: Enzymatic*, **2004**, 28, 155-166		52
235	Prediction of Japanese green tea ranking by fourier transform near-infrared reflectance spectroscopy. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 9908-12	5.7	51
234	Profiling of regioisomeric triacylglycerols in edible oils by supercritical fluid chromatography/tandem mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2014**, 966, 193-9	3.2	50
233	In vitro selection of hematoporphyrin binding DNA aptamers. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 2653-6	2.9	50
232	High-throughput simultaneous analysis of pesticides by supercritical fluid chromatography coupled with high-resolution mass spectrometry. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 4457-63	5.7	49
231	Simultaneous and rapid analysis of bile acids including conjugates by supercritical fluid chromatography coupled to tandem mass spectrometry. *Journal of Chromatography A*, **2013**, 1299, 103-9	4.5	49
230	Highly sensitive and selective analysis of widely targeted metabolomics using gas chromatography/triple-quadrupole mass spectrometry. *Journal of Bioscience and Bioengineering*, **2014**, 117, 122-8	3.3	47
229	Quality prediction of Japanese green tea using pyrolyzer coupled GC/MS based metabolic fingerprinting. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 744-50	5.7	47
228	Influence of yeast and lactic acid bacterium on the constituent profile of soy sauce during fermentation. *Journal of Bioscience and Bioengineering*, **2017**, 123, 203-208	3.3	44
227	Metabolic profiling approach to explore compounds related to the umami intensity of soy sauce. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 7317-22	5.7	44
226	Histochemical study of detailed laticifer structure and rubber biosynthesis-related protein localization in Hevea brasiliensis using spectral confocal laser scanning microscopy. *Planta*, **2009**, 230, 215-25	4.7	42
225	Distinct signatures of dental plaque metabolic byproducts dictated by periodontal inflammatory status. *Scientific Reports*, **2017**, 7, 42818	4.9	40
224	Development of a liquid chromatography-tandem mass spectrometry method for quantitative analysis of trace d-amino acids. *Journal of Bioscience and Bioengineering*, **2017**, 123, 134-138	3.3	40
223	Analysis of the correlation between dipeptides and taste differences among soy sauces by using metabolomics-based component profiling. *Journal of Bioscience and Bioengineering*, **2014**, 118, 56-63	3.3	40
222	Development of oxidized phosphatidylcholine isomer profiling method using supercritical fluid chromatography/tandem mass spectrometry. *Journal of Chromatography A*, **2012**, 1250, 205-11	4.5	40
221	Quantification of coffee blends for authentication of Asian palm civet coffee (Kopi Luwak) via metabolomics: A proof of concept. *Journal of Bioscience and Bioengineering*, **2016**, 122, 79-84	3.3	39
220	High-throughput and sensitive analysis of 3-monochloropropane-1,2-diol fatty acid esters in edible oils by supercritical fluid chromatography/tandem mass spectrometry. *Journal of Chromatography A*, **2012**, 1250, 99-104	4.5	39

219	Metabolite analysis by supercritical fluid chromatography. *Bioanalysis*, **2010**, 2, 27-34	2.1	38
218	Fast GC-FID based metabolic fingerprinting of Japanese green tea leaf for its quality ranking prediction. *Journal of Separation Science*, **2009**, 32, 2296-304	3.4	38
217	Methanol production is enhanced by expression of an Aspergillus niger pectin methylesterase in tobacco cells. *Journal of Biotechnology*, **2003**, 106, 45-52	3.7	37
216	Ceramide kinase regulates phospholipase C and phosphatidylinositol 4, 5, bisphosphate in phototransduction. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20063-8	11.5	36
215	Canonical correlation analysis for multivariate regression and its application to metabolic fingerprinting. *Biochemical Engineering Journal*, **2008**, 40, 199-204	4.2	36
214	Expression of fungal pectin methylesterase in transgenic tobacco leads to alteration in cell wall metabolism and a dwarf phenotype. *Journal of Biotechnology*, **2004**, 111, 241-51	3.7	36
213	Lipase-catalyzed kinetic resolution of methyl 4-hydroxy-5-tetradecynoate and its application to a facile synthesis of japanese beetle pheromone. *Tetrahedron*, **1991**, 47, 6223-6230	2.4	36
212	Metabolite profiling of soy sauce using gas chromatography with time-of-flight mass spectrometry and analysis of correlation with quantitative descriptive analysis. *Journal of Bioscience and Bioengineering*, **2012**, 114, 170-5	3.3	35
211	Supercritical fluid chromatography/mass spectrometry in metabolite analysis. *Bioanalysis*, **2014**, 6, 1679-89	2.1	34
210	Changes in transcription and metabolism during the early stage of replicative cellular senescence in budding yeast. *Journal of Biological Chemistry*, **2014**, 289, 32081-32093	5.4	32
209	High-accuracy analysis system for the redox status of coenzyme Q10 by online supercritical fluid extraction-supercritical fluid chromatography/mass spectrometry. *Journal of Chromatography A*, **2012**, 1250, 76-9	4.5	31
208	In vivo 15N-enrichment of metabolites in suspension cultured cells and its application to metabolomics. *Biotechnology Progress*, **2006**, 22, 1003-11	2.8	30
207	Lipidomic analysis of plasma lipoprotein fractions in myocardial infarction-prone rabbits. *Journal of Bioscience and Bioengineering*, **2015**, 120, 476-82	3.3	29
206	Inflammation and resolution are associated with upregulation of fatty acid β-oxidation in Zymosan-induced peritonitis. *PLoS ONE*, **2013**, 8, e66270	3.7	29
205	Novel high-throughput and widely-targeted liquid chromatography-time of-flight mass spectrometry method for d-amino acids in foods. *Journal of Bioscience and Bioengineering*, **2017**, 123, 126-133	3.3	28
204	Metabolic profiling of β-cryptoxanthin and its fatty acid esters by supercritical fluid chromatography coupled with triple quadrupole mass spectrometry. *Journal of Separation Science*, **2011**, 34, 3546-52	3.4	28
203	Production of Eucommia-rubber from Eucommia ulmoides Oliv. (Hardy Rubber Tree). *Plant Biotechnology*, **2009**, 26, 71-79	1.3	28
202	Metabolome analysis of Drosophila melanogaster during embryogenesis. *PLoS ONE*, **2014**, 9, e99519	3.7	28

201	Tandem Mass Spectrometry Imaging Reveals Distinct Accumulation Patterns of Steroid Structural Isomers in Human Adrenal Glands. *Analytical Chemistry*, **2019**, 91, 8918-8925	7.8	27
200	Microbe participation in aroma production during soy sauce fermentation. *Journal of Bioscience and Bioengineering*, **2018**, 125, 688-694	3.3	27
199	Extra-facile chiral separation of amino acid enantiomers by LC-TOFMS analysis. *Journal of Bioscience and Bioengineering*, **2016**, 121, 349-53	3.3	27
198	Metabolic engineering for isopropanol production by an engineered cyanobacterium, Synechococcus elongatus PCC 7942, under photosynthetic conditions. *Journal of Bioscience and Bioengineering*, **2017**, 123, 39-45	3.3	27
197	A novel application of metabolomics in vertebrate development. *Biochemical and Biophysical Research Communications*, **2009**, 386, 268-72	3.4	27
196	Integrated metabolite and gene expression profiling revealing phytochrome A regulation of polyamine biosynthesis of Arabidopsis thaliana. *Journal of Experimental Botany*, **2008**, 59, 1187-200	7	27
195	Expression of a xylanase gene of Bacillus pumilus in Escherichia coli and Bacillus subtilis. *Applied Microbiology and Biotechnology*, **1985**, 22, 259	5.7	27
194	Increased Dynamics of Tricarboxylic Acid Cycle and Glutamate Synthesis in Obese Adipose Tissue: IN VIVO METABOLIC TURNOVER ANALYSIS. *Journal of Biological Chemistry*, **2017**, 292, 4469-4483	5.4	26
193	Hypoxanthine Secretion from Human Adipose Tissue and its Increase in Hypoxia. *Obesity*, **2018**, 26, 116881178		26
192	Method for assessing the statistical significance of mass spectral similarities using basic local alignment search tool statistics. *Analytical Chemistry*, **2013**, 85, 8291-7	7.8	26
191	Application of gas chromatography/flame ionization detector-based metabolite fingerprinting for authentication of Asian palm civet coffee (Kopi Luwak). *Journal of Bioscience and Bioengineering*, **2015**, 120, 555-61	3.3	26
190	Profiling of primary metabolite by means of capillary electrophoresis-mass spectrometry and its application for plant science. *Plant Biotechnology*, **2009**, 26, 47-52	1.3	26
189	Metabolomic approach for improving ethanol stress tolerance in Saccharomyces cerevisiae. *Journal of Bioscience and Bioengineering*, **2016**, 121, 399-405	3.3	25
188	Non-targeted metabolite fingerprinting of oriental folk medicine Angelica acutiloba roots by ultra performance liquid chromatography time-of-flight mass spectrometry. *Journal of Separation Science*, **2009**, 32, 2233-44	3.4	25
187	High-efficiency bioaffinity separation of cells and proteins using novel thermoresponsive biotinylated magnetic nanoparticles. *Nanobiotechnology*, **2006**, 2, 43-49		25
186	A metabolomics-based strategy for identification of gene targets for phenotype improvement and its application to 1-butanol tolerance in Saccharomyces cerevisiae. *Biotechnology for Biofuels*, **2015**, 8, 144	7.8	24
185	Iterative cycle of widely targeted metabolic profiling for the improvement of 1-butanol titer and productivity in. *Biotechnology for Biofuels*, **2018**, 11, 188	7.8	24
184	Development of a practical metabolite identification technique for non-targeted metabolomics. *Journal of Chromatography A*, **2013**, 1301, 73-9	4.5	24

183	Epigenetic regulation of starvation-induced autophagy in Drosophila by histone methyltransferase G9a. *Scientific Reports*, **2017**, 7, 7343	4.9	24
182	GABA metabolism pathway genes, UGA1 and GAD1, regulate replicative lifespan in Saccharomyces cerevisiae. *Biochemical and Biophysical Research Communications*, **2011**, 407, 185-90	3.4	24
181	Sphingosine kinases and their metabolites modulate endolysosomal trafficking in photoreceptors. *Journal of Cell Biology*, **2011**, 192, 557-67	7.3	24
180	Integrated Strategy for Unknown EI-MS Identification Using Quality Control Calibration Curve, Multivariate Analysis, EI-MS Spectral Database, and Retention Index Prediction. *Analytical Chemistry* , **2017**, 89, 6766-6773	7.8	23
179	New Insight into the Role of the Calvin Cycle: Reutilization of CO2 Emitted through Sugar Degradation. *Scientific Reports*, **2015**, 5, 11617	4.9	23
178	Quantitative target analysis and kinetic profiling of acyl-CoAs reveal the rate-limiting step in cyanobacterial 1-butanol production. *Metabolomics*, **2016**, 12, 26	4.7	23
177	Determination of niacin and its metabolites using supercritical fluid chromatography coupled to tandem mass spectrometry. *Mass Spectrometry*, **2014**, 3, A0029	1.7	23
176	Free D-amino acids produced by commensal bacteria in the colonic lumen. *Scientific Reports*, **2018**, 8, 17915	4.9	23
175	Metabolome analysis reveals the effect of carbon catabolite control on the poly(Ɣ-glutamic acid) biosynthesis of Bacillus licheniformis ATCC 9945. *Journal of Bioscience and Bioengineering*, **2016**, 121, 413-9	3.3	22
174	GC/MS based metabolite profiling of Indonesian specialty coffee from different species and geographical origin. *Metabolomics*, **2019**, 15, 126	4.7	22
173	Structure and expression of genes coding for xylan-degrading enzymes of Bacillus pumilus. *FEBS Journal*, **1987**, 166, 539-45		22
172	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. *Journal of Chromatography A*, **2018**, 1578, 35-44	4.5	22
171	MRM-DIFF: data processing strategy for differential analysis in large scale MRM-based lipidomics studies. *Frontiers in Genetics*, **2014**, 5, 471	4.5	21
170	Identification of Metabolites Associated with Onset of CAD in Diabetic Patients Using CE-MS Analysis: A Pilot Study. *Journal of Atherosclerosis and Thrombosis*, **2019**, 26, 233-245	4	21
169	Metabolite profiles of polyhydroxyalkanoate-producing Ralstonia eutropha H16. *Metabolomics*, **2014**, 10, 190-202	4.7	21
168	Reproductive organs regulate leaf nitrogen metabolism mediated by cytokinin signal. *Planta*, **2009**, 229, 633-44	4.7	21
167	Glutamate production from ammonia via glutamate dehydrogenase 2 activity supports cancer cell proliferation under glutamine depletion. *Biochemical and Biophysical Research Communications*, **2018**, 495, 761-767	3.4	21
166	Metabolic fingerprinting of hard and semi-hard natural cheeses using gas chromatography with flame ionization detector for practical sensory prediction modeling. *Journal of Bioscience and Bioengineering*, **2012**, 114, 506-11	3.3	20

165	Application of supercritical fluid carbon dioxide to the extraction and analysis of lipids. *Bioanalysis*, **2012**, 4, 2413-22	2.1	20
164	Removal of magnesium by Mg-dechelatase is a major step in the chlorophyll-degrading pathway in Ginkgo biloba in the process of autumnal tints. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **2000**, 55, 923-6	1.7	20
163	Survival response to increased ceramide involves metabolic adaptation through novel regulators of glycolysis and lipolysis. *PLoS Genetics*, **2013**, 9, e1003556	6	19
162	High-resolution spatial and temporal analysis of phytoalexin production in oats. *Planta*, **2009**, 229, 931-43	4.7	19
161	Biosynthetic pathway for the C45 polyprenol, solanesol, in tobacco. *Bioscience, Biotechnology and Biochemistry*, **2004**, 68, 1988-90	2.1	19
160	Efficient kinetic resolution of organosilicon compounds by stereoselective esterification with hydrolases in organic solvent. *Applied Microbiology and Biotechnology*, **1993**, 38, 482	5.7	19
159	Influence of nitrogen source and pH value on undesired poly(Ɛ-glutamic acid) formation of a protease producing Bacillus licheniformis strain. *Journal of Industrial Microbiology and Biotechnology*, **2015**, 42, 1203-15	4.2	18
158	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	3.2	18
157	Sex Pheromonal Activity of Geometric and Optical Isomers of Synthetic Contact Pheromone to Males of the Yellow-Spotted Longicorn Beetle, Psacothea hilaris (PASCOE) (Coleoptera: Cerambycidae). *Applied Entomology and Zoology*, **1997**, 32, 654-656	1.5	18
156	High-sensitive liquid chromatography-tandem mass spectrometry-based chiral metabolic profiling focusing on amino acids and related metabolites. *Journal of Bioscience and Bioengineering*, **2019**, 127, 520-527	3.3	18
155	Development of a practical online supercritical fluid extraction-supercritical fluid chromatography/mass spectrometry system with an integrated split-flow method. *Journal of Chromatography A*, **2019**, 1592, 161-172	4.5	17
154	Planteose as a storage carbohydrate required for early stage of germination of Orobanche minor and its metabolism as a possible target for selective control. *Journal of Experimental Botany*, **2015**, 66, 3085-97	7	17
153	Tailor-made poly-Ɛ-glutamic acid production. *Metabolic Engineering*, **2019**, 55, 239-248	9.7	17
152	Application of Metabolomics for High Resolution Phenotype Analysis. *Mass Spectrometry*, **2014**, 3, S0045	1.7	17
151	A High Phosphorus Diet Affects Lipid Metabolism in Rat Liver: A DNA Microarray Analysis. *PLoS ONE* , **2016**, 11, e0155386	3.7	17
150	GC-MS Based Metabolite Profiling to Monitor Ripening-Specific Metabolites in Pineapple (). *Metabolites*, **2020**, 10,	5.6	17
149	Directed strain evolution restructures metabolism for 1-butanol production in minimal media. *Metabolic Engineering*, **2018**, 49, 153-163	9.7	16
148	Metabolic profiling of retrograde pathway transcription factors rtg1 and rtg3 knockout yeast. *Metabolites*, **2014**, 4, 580-98	5.6	16

147	Metabolite profiles correlate closely with neurobehavioral function in experimental spinal cord injury in rats. *PLoS ONE*, **2012**, 7, e43152	3.7	16
146	c-Src-induced activation of ceramide metabolism impairs membrane microdomains and promotes malignant progression by facilitating the translocation of c-Src to focal adhesions. *Biochemical Journal*, **2014**, 458, 81-93	3.8	15
145	Orthogonal partial least squares/projections to latent structures regression-based metabolomics approach for identification of gene targets for improvement of 1-butanol production in Escherichia coli. *Journal of Bioscience and Bioengineering*, **2017**, 124, 498-505	3.3	15
144	Solid-phase analytical derivatization for gas-chromatography-mass-spectrometry-based metabolomics. *Journal of Bioscience and Bioengineering*, **2017**, 124, 700-706	3.3	15
143	Different-batch metabolome analysis of Saccharomyces cerevisiae based on gas chromatography/mass spectrometry. *Journal of Bioscience and Bioengineering*, **2014**, 117, 248-255	3.3	15
142	Contribution of mevalonate and methylerythritol phosphate pathways to polyisoprenoid biosynthesis in the rubber-producing plant Eucommia ulmoides oliver. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **2010**, 65, 363-72	1.7	15
141	Metabolic profiling of Drosophila melanogaster metamorphosis: a new insight into the central metabolic pathways. *Metabolomics*, **2017**, 13, 1	4.7	14
140	Development of a split-flow system for high precision variable sample introduction in supercritical fluid chromatography. *Journal of Chromatography A*, **2017**, 1515, 218-231	4.5	14
139	Metabolic profiling and identification of the genetic varieties and agricultural origin of Cnidium officinale and Ligusticum chuanxiong. *Journal of Bioscience and Bioengineering*, **2012**, 114, 86-91	3.3	14
138	Lipase-catalyzed kinetic resolution of 2,3-epoxy-8-methyl-1-nonanol, the key intermediate in the synthesis of the gypsy moth pheromone. *Journal of Bioscience and Bioengineering*, **1992**, 73, 280-283		14
137	Metabolic repair through emergence of new pathways in Escherichia coli. *Nature Chemical Biology*, **2018**, 14, 1005-1009	11.7	14
136	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	7.8	13
135	Metabolic distance estimation based on principle component analysis of metabolic turnover. *Journal of Bioscience and Bioengineering*, **2014**, 118, 350-5	3.3	13
134	Acquisition of thermotolerant yeast Saccharomyces cerevisiae by breeding via stepwise adaptation. *Biotechnology Progress*, **2013**, 29, 1116-23	2.8	13
133	Quality evaluation of green tea leaf cultured under artificial light condition using gas chromatography/mass spectrometry. *Journal of Bioscience and Bioengineering*, **2017**, 123, 197-202	3.3	13
132	Gas chromatography-mass spectrometry based metabolic profiling for the identification of discrimination markers of Angelicae Radix and its application to gas chromatography-flame ionization detector system. *Journal of Bioscience and Bioengineering*, **2012**, 114, 232-6	3.3	13
131	Application of lipase-catalyzed transformations for the synthesis of insect pheromones and related compounds. *Journal of Molecular Catalysis B: Enzymatic*, **1997**, 2, 257-269		13
130	Metabolic fingerprinting and profiling of Arabidopsis thaliana leaf and its cultured cells T87 by GC/MS. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **2006**, 61, 267-72	1.7	13

129	Identification and characterization of a very long-chain fatty acid elongase gene in the methylotrophic yeast, Hansenula polymorpha. *Gene*, **2007**, 391, 16-25	3.8	13
128	Fast enantiomeric separation of amino acids using liquid chromatography/mass spectrometry on a chiral crown ether stationary phase. *Journal of Bioscience and Bioengineering*, **2020**, 130, 437-442	3.3	12
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