

Tomoyoshi Soga

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2156175/publications.pdf>

Version: 2024-02-01

352
papers

26,443
citations

10351

72
h-index

8370

147
g-index

362
all docs

362
docs citations

362
times ranked

36156
citing authors

#	ARTICLE	IF	CITATIONS
1	MassBank: a public repository for sharing mass spectral data for life sciences. <i>Journal of Mass Spectrometry</i> , 2010, 45, 703-714.	0.7	1,831
2	Quantitative Metabolome Analysis Using Capillary Electrophoresis Mass Spectrometry. <i>Journal of Proteome Research</i> , 2003, 2, 488-494.	1.8	912
3	Quantitative Metabolome Profiling of Colon and Stomach Cancer Microenvironment by Capillary Electrophoresis Time-of-Flight Mass Spectrometry. <i>Cancer Research</i> , 2009, 69, 4918-4925.	0.4	822
4	Capillary electrophoresis mass spectrometry-based saliva metabolomics identified oral, breast and pancreatic cancer-specific profiles. <i>Metabolomics</i> , 2010, 6, 78-95.	1.4	783
5	Metagenomic and metabolomic analyses reveal distinct stage-specific phenotypes of the gut microbiota in colorectal cancer. <i>Nature Medicine</i> , 2019, 25, 968-976.	15.2	748
6	Multiple High-Throughput Analyses Monitor the Response of <i>E. coli</i> to Perturbations. <i>Science</i> , 2007, 316, 593-597.	6.0	694
7	Regulation of Glycolysis by Pdk Functions as a Metabolic Checkpoint for Cell Cycle Quiescence in Hematopoietic Stem Cells. <i>Cell Stem Cell</i> , 2013, 12, 49-61.	5.2	659
8	Differential Metabolomics Reveals Ophthalmic Acid as an Oxidative Stress Biomarker Indicating Hepatic Glutathione Consumption*. <i>Journal of Biological Chemistry</i> , 2006, 281, 16768-16776.	1.6	640
9	Amino Acid Analysis by Capillary Electrophoresis Electro spray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 1236-1241.	3.2	505
10	Renal Cyst Formation in Fh1-Deficient Mice Is Independent of the Hif/Phd Pathway: Roles for Fumarate in KEAP1 Succination and Nrf2 Signaling. <i>Cancer Cell</i> , 2011, 20, 524-537.	7.7	494
11	Simultaneous Determination of Anionic Intermediates for Bacillus subtilis Metabolic Pathways by Capillary Electrophoresis Electro spray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 2233-2239.	3.2	448
12	UCP1-independent signaling involving SERCA2b-mediated calcium cycling regulates beige fat thermogenesis and systemic glucose homeostasis. <i>Nature Medicine</i> , 2017, 23, 1454-1465.	15.2	429
13	Autophagy Protects the Proximal Tubule from Degeneration and Acute Ischemic Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 902-913.	3.0	388
14	Oncometabolites: linking altered metabolism with cancer. <i>Journal of Clinical Investigation</i> , 2013, 123, 3652-3658.	3.9	334
15	Mitochondrial dysfunction associated with increased oxidative stress and α -synuclein accumulation in PARK2 iPSC-derived neurons and postmortem brain tissue. <i>Molecular Brain</i> , 2012, 5, 35.	1.3	333
16	BCAA catabolism in brown fat controls energy homeostasis through SLC25A44. <i>Nature</i> , 2019, 572, 614-619.	18.7	332
17	Metabolomic Profiling of Anionic Metabolites by Capillary Electrophoresis Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 6165-6174.	3.2	291
18	Metabolome analysis by capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1168, 237-246.	1.8	278

#	ARTICLE	IF	CITATIONS
19	Bioinformatics Tools for Mass Spectroscopy-Based Metabolomic Data Processing and Analysis. <i>Current Bioinformatics</i> , 2012, 7, 96-108.	0.7	270
20	Global metabolic reprogramming of colorectal cancer occurs at adenoma stage and is induced by MYC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7697-E7706.	3.3	270
21	p62/Sqstm1 promotes malignancy of HCV-positive hepatocellular carcinoma through Nrf2-dependent metabolic reprogramming. <i>Nature Communications</i> , 2016, 7, 12030.	5.8	253
22	Simultaneous determination of the main metabolites in rice leaves using capillary electrophoresis mass spectrometry and capillary electrophoresis diode array detection. <i>Plant Journal</i> , 2004, 40, 151-163.	2.8	252
23	Analysis of Metabolic Remodeling in Compensated Left Ventricular Hypertrophy and Heart Failure. <i>Circulation: Heart Failure</i> , 2010, 3, 420-430.	1.6	248
24	Measurement of internal body time by blood metabolomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9890-9895.	3.3	246
25	Depiction of metabolome changes in histidine-starved <i>Escherichia coli</i> by CE-TOFMS. <i>Molecular BioSystems</i> , 2008, 4, 135-147.	2.9	243
26	Serum metabolomics reveals \hat{I}^3 -glutamyl dipeptides as biomarkers for discrimination among different forms of liver disease. <i>Journal of Hepatology</i> , 2011, 55, 896-905.	1.8	217
27	Cancer metabolism: Key players in metabolic reprogramming. <i>Cancer Science</i> , 2013, 104, 275-281.	1.7	210
28	Human blood metabolite timetable indicates internal body time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15036-15041.	3.3	188
29	Metabolomic anatomy of an animal model revealing homeostatic imbalances in dyslipidaemia. <i>Molecular BioSystems</i> , 2011, 7, 1217.	2.9	174
30	Evaluation of the impact of gut microbiota on uremic solute accumulation by a CE-TOFMS-based metabolomics approach. <i>Kidney International</i> , 2017, 92, 634-645.	2.6	173
31	Gut microbiome-derived phenyl sulfate contributes to albuminuria in diabetic kidney disease. <i>Nature Communications</i> , 2019, 10, 1835.	5.8	173
32	Cell competition with normal epithelial cells promotes apical extrusion of transformed cells through metabolic changes. <i>Nature Cell Biology</i> , 2017, 19, 530-541.	4.6	172
33	Gene Knockout and Metabolome Analysis of Carnitine/Organic Cation Transporter OCTN1. <i>Pharmaceutical Research</i> , 2010, 27, 832-840.	1.7	168
34	Metabolic profiling reveals new serum biomarkers for differentiating diabetic nephropathy. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 3101-3109.	1.9	163
35	Alteration of the Intestinal Environment by Lubiprostone Is Associated with Amelioration of Adenine-Induced CKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 1787-1794.	3.0	162
36	A systematic survey of in vivo obligate chaperonin-dependent substrates. <i>EMBO Journal</i> , 2010, 29, 1552-1564.	3.5	156

#	ARTICLE	IF	CITATIONS
37	Identification of salivary metabolomic biomarkers for oral cancer screening. <i>Scientific Reports</i> , 2016, 6, 31520.	1.6	147
38	Simultaneous determination of inorganic anions, organic acids, amino acids and carbohydrates by capillary electrophoresis. <i>Journal of Chromatography A</i> , 1999, 837, 231-239.	1.8	143
39	Systematic phenome analysis of <i>Escherichia coli</i> multiple knockout mutants reveals hidden reactions in central carbon metabolism. <i>Molecular Systems Biology</i> , 2009, 5, 306.	3.2	143
40	Autophagy regulates lipid metabolism through selective turnover of NCoR1. <i>Nature Communications</i> , 2019, 10, 1567.	5.8	143
41	MathDAMP: a package for differential analysis of metabolite profiles. <i>BMC Bioinformatics</i> , 2006, 7, 530.	1.2	142
42	Pressure-Assisted Capillary Electrophoresis Electro spray Ionization Mass Spectrometry for Analysis of Multivalent Anions. <i>Analytical Chemistry</i> , 2002, 74, 6224-6229.	3.2	141
43	Capillary electrophoresis method for the analysis of inorganic anions, organic acids, amino acids, nucleotides, carbohydrates and other anionic compounds. <i>Electrophoresis</i> , 2001, 22, 3418-3425.	1.3	140
44	The emerging role of fumarate as an oncometabolite. <i>Frontiers in Oncology</i> , 2012, 2, 85.	1.3	140
45	Inhibition of Mitochondrial Aconitase by Succination in Fumarate Hydratase Deficiency. <i>Cell Reports</i> , 2013, 3, 689-700.	2.9	137
46	Qualitative and quantitative analysis of amino acids by capillary electrophoresis-electrospray ionization-tandem mass spectrometry. <i>Electrophoresis</i> , 2004, 25, 1964-1972.	1.3	128
47	Metabolomic profiling of lung and prostate tumor tissues by capillary electrophoresis time-of-flight mass spectrometry. <i>Metabolomics</i> , 2013, 9, 444-453.	1.4	128
48	Metabolomic profiling of uremic solutes in CKD patients. <i>Hypertension Research</i> , 2010, 33, 944-952.	1.5	126
49	SLCO4C1 Transporter Eliminates Uremic Toxins and Attenuates Hypertension and Renal Inflammation. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 2546-2555.	3.0	124
50	Expression of Idh1R132H in the Murine Subventricular Zone Stem Cell Niche Recapitulates Features of Early Gliomagenesis. <i>Cancer Cell</i> , 2016, 30, 578-594.	7.7	122
51	PKM1 Confers Metabolic Advantages and Promotes Cell-Autonomous Tumor Cell Growth. <i>Cancer Cell</i> , 2018, 33, 355-367.e7.	7.7	121
52	mTORC1 is essential for leukemia propagation but not stem cell self-renewal. <i>Journal of Clinical Investigation</i> , 2012, 122, 2114-2129.	3.9	117
53	A Transient Rise in Free Mg ²⁺ Ions Released from ATP-Mg Hydrolysis Contributes to Mitotic Chromosome Condensation. <i>Current Biology</i> , 2018, 28, 444-451.e6.	1.8	116
54	Capillary electrophoretic determination of inorganic and organic anions using 2,6-pyridinedicarboxylic acid: effect of electrolyte's complexing ability. <i>Journal of Chromatography A</i> , 1997, 767, 223-230.	1.8	112

#	ARTICLE	IF	CITATIONS
55	Metabolomic alterations in human cancer cells by vitamin C-induced oxidative stress. <i>Scientific Reports</i> , 2015, 5, 13896.	1.6	109
56	Mitochondrial Mg ²⁺ homeostasis decides cellular energy metabolism and vulnerability to stress. <i>Scientific Reports</i> , 2016, 6, 30027.	1.6	107
57	IMP dehydrogenase-2 drives aberrant nucleolar activity and promotes tumorigenesis in glioblastoma. <i>Nature Cell Biology</i> , 2019, 21, 1003-1014.	4.6	107
58	Capillary electrophoresis-mass spectrometry-based metabolome analysis of serum and saliva from neurodegenerative dementia patients. <i>Electrophoresis</i> , 2013, 34, 2865-2872.	1.3	99
59	Index markers of chronic fatigue syndrome with dysfunction of TCA and urea cycles. <i>Scientific Reports</i> , 2016, 6, 34990.	1.6	97
60	Cystathionine β -synthase as a carbon monoxide-sensitive regulator of bile excretion. <i>Hepatology</i> , 2009, 49, 141-150.	3.6	96
61	Quantitative metabolome analysis profiles activation of glutaminolysis in glioma with IDH1 mutation. <i>Tumor Biology</i> , 2014, 35, 5911-5920.	0.8	95
62	¹³ C-metabolic flux analysis for batch culture of <i>Escherichia coli</i> and its <i>pyk</i> and <i>pgi</i> gene knockout mutants based on mass isotopomer distribution of intracellular metabolites. <i>Biotechnology Progress</i> , 2010, 26, 975-992.	1.3	92
63	p38 β Activates Purine Metabolism to Initiate Hematopoietic Stem/Progenitor Cell Cycling in Response to Stress. <i>Cell Stem Cell</i> , 2016, 19, 192-204.	5.2	92
64	Conformational Change in Transfer RNA Is an Early Indicator of Acute Cellular Damage. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 2316-2326.	3.0	88
65	Analysis of nucleotides by pressure-assisted capillary electrophoresis-mass spectrometry using silanol mask technique. <i>Journal of Chromatography A</i> , 2007, 1159, 125-133.	1.8	86
66	Simultaneous Determination of Monosaccharides in Glycoproteins by Capillary Electrophoresis. <i>Analytical Biochemistry</i> , 1998, 261, 73-78.	1.1	84
67	Hepatitis C Virus Infection Promotes Hepatic Gluconeogenesis through an NS5A-Mediated, FoxO1-Dependent Pathway. <i>Journal of Virology</i> , 2011, 85, 8556-8568.	1.5	84
68	Canagliflozin reduces plasma uremic toxins and alters the intestinal microbiota composition in a chronic kidney disease mouse model. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F824-F833.	1.3	84
69	Roles of Hemoglobin Allostery in Hypoxia-induced Metabolic Alterations in Erythrocytes. <i>Journal of Biological Chemistry</i> , 2007, 282, 10731-10741.	1.6	83
70	The selective control of glycolysis, gluconeogenesis and glycogenesis by temporal insulin patterns. <i>Molecular Systems Biology</i> , 2013, 9, 664.	3.2	83
71	Metabolomic profiling reveals novel biomarkers of alcohol intake and alcohol-induced liver injury in community-dwelling men. <i>Environmental Health and Preventive Medicine</i> , 2016, 21, 18-26.	1.4	83
72	Reconstruction of Insulin Signal Flow from Phosphoproteome and Metabolome Data. <i>Cell Reports</i> , 2014, 8, 1171-1183.	2.9	82

#	ARTICLE	IF	CITATIONS
73	Non-targeted metabolite profiling in activated macrophage secretion. <i>Metabolomics</i> , 2012, 8, 624-633.	1.4	80
74	Global metabolic network reorganization by adaptive mutations allows fast growth of <i>Escherichia coli</i> on glycerol. <i>Nature Communications</i> , 2014, 5, 3233.	5.8	80
75	A Role for Cytosolic Fumarate Hydratase in Urea Cycle Metabolism and Renal Neoplasia. <i>Cell Reports</i> , 2013, 3, 1440-1448.	2.9	78
76	Metabolome analysis based on capillary electrophoresis-mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 61, 215-222.	5.8	77
77	Self-Enhancement of Hepatitis C Virus Replication by Promotion of Specific Sphingolipid Biosynthesis. <i>PLoS Pathogens</i> , 2012, 8, e1002860.	2.1	76
78	Cancer stem-like properties and gefitinib resistance are dependent on purine synthetic metabolism mediated by the mitochondrial enzyme MTHFD2. <i>Oncogene</i> , 2019, 38, 2464-2481.	2.6	75
79	Simultaneous determination of inorganic anions, organic acids and metal cations by capillary electrophoresis. <i>Journal of Chromatography A</i> , 1999, 834, 65-71.	1.8	73
80	Metabolomics Approach for Enzyme Discovery. <i>Journal of Proteome Research</i> , 2006, 5, 1979-1987.	1.8	73
81	Metabolic and morphological changes of an oil accumulating trebouxiphycean alga in nitrogen-deficient conditions. <i>Metabolomics</i> , 2013, 9, 178-187.	1.4	72
82	SRSF3, a Splicer of the PKM Gene, Regulates Cell Growth and Maintenance of Cancer-Specific Energy Metabolism in Colon Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3012.	1.8	72
83	Hypoxia induces a lipogenic cancer cell phenotype via HIF1 α -dependent and -independent pathways. <i>Oncotarget</i> , 2015, 6, 1920-1941.	0.8	72
84	Physiological and environmental parameters associated with mass spectrometry-based salivary metabolomic profiles. <i>Metabolomics</i> , 2013, 9, 454-463.	1.4	70
85	Prediction of metabolite identity from accurate mass, migration time prediction and isotopic pattern information in CE- μ OFMS data. <i>Electrophoresis</i> , 2010, 31, 2311-2318.	1.3	69
86	Necrosis-Driven Systemic Immune Response Alters SAM Metabolism through the FOXO-GNMT Axis. <i>Cell Reports</i> , 2014, 7, 821-833.	2.9	69
87	Effects of processing and storage conditions on charged metabolomic profiles in blood. <i>Electrophoresis</i> , 2015, 36, 2148-2155.	1.3	68
88	Evaluation of Metabolic Alteration in Transgenic Rice Overexpressing Dihydroflavonol-4-reductase. <i>Annals of Botany</i> , 2006, 98, 819-825.	1.4	67
89	Sheathless capillary electrophoresis-mass spectrometry with a high-sensitivity porous sprayer for cationic metabolome analysis. <i>Analyst</i> , 2012, 137, 5026.	1.7	67
90	Metabolic Profiling of the Protozoan Parasite <i>Entamoeba invadens</i> Revealed Activation of Unpredicted Pathway during Encystation. <i>PLoS ONE</i> , 2012, 7, e37740.	1.1	67

#	ARTICLE	IF	CITATIONS
91	Direct measurement of isotopomer of intracellular metabolites using capillary electrophoresis time-of-flight mass spectrometry for efficient metabolic flux analysis. <i>Journal of Chromatography A</i> , 2007, 1159, 134-141.	1.8	66
92	Cystathionine Is a Novel Substrate of Cystine/Glutamate Transporter. <i>Journal of Biological Chemistry</i> , 2015, 290, 8778-8788.	1.6	65
93	Correlation between Sensory Evaluation Scores of Japanese <i>Sake</i> and Metabolome Profiles. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 374-383.	2.4	64
94	Capillary Electrophoresis-Mass Spectrometry for Metabolomics. <i>Methods in Molecular Biology</i> , 2007, 358, 129-137.	0.4	63
95	Metabolomic Profiles and Sensory Attributes of Edamame under Various Storage Duration and Temperature Conditions. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 8418-8425.	2.4	62
96	Degradation of ppGpp by Nudix Pyrophosphatase Modulates the Transition of Growth Phase in the Bacterium <i>Thermus thermophilus</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 15549-15556.	1.6	61
97	MMMDB: Mouse Multiple Tissue Metabolome Database. <i>Nucleic Acids Research</i> , 2012, 40, D809-D814.	6.5	60
98	Global metabolomic analysis of heart tissue in a hamster model for dilated cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 59, 76-85.	0.9	60
99	HIF-1 α is necessary to support gluconeogenesis during liver regeneration. <i>Biochemical and Biophysical Research Communications</i> , 2009, 387, 789-794.	1.0	59
100	Distinct requirements for energy metabolism in mouse primordial germ cells and their reprogramming to embryonic germ cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8289-8294.	3.3	59
101	Elevated Polyamines in Saliva of Pancreatic Cancer. <i>Cancers</i> , 2018, 10, 43.	1.7	59
102	Gut microbiota depletion by chronic antibiotic treatment alters the sleep/wake architecture and sleep EEG power spectra in mice. <i>Scientific Reports</i> , 2020, 10, 19554.	1.6	59
103	Development of Bottom-Fermenting <i>Saccharomyces</i> Strains That Produce High SO ₂ Levels, Using Integrated Metabolome and Transcriptome Analysis. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2787-2796.	1.4	58
104	Metabolite Profiling Reveals YihU as a Novel Hydroxybutyrate Dehydrogenase for Alternative Succinic Semialdehyde Metabolism in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 16442-16451.	1.6	58
105	Functional Expression of Carnitine/Organic Cation Transporter OCTN1/SLC22A4 in Mouse Small Intestine and Liver. <i>Drug Metabolism and Disposition</i> , 2010, 38, 1665-1672.	1.7	58
106	Changes in the Charged Metabolite and Sugar Profiles of Pasteurized and Unpasteurized Japanese Sake with Storage. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 2586-2593.	2.4	58
107	Alteration of metabolomic profiles by titanium dioxide nanoparticles in human gingivitis model. <i>Biomaterials</i> , 2015, 57, 33-40.	5.7	58
108	Reliability of plasma polar metabolite concentrations in a large-scale cohort study using capillary electrophoresis-mass spectrometry. <i>PLoS ONE</i> , 2018, 13, e0191230.	1.1	58

#	ARTICLE	IF	CITATIONS
109	Fumarate Hydratase Deletion in Pancreatic β^2 Cells Leads to Progressive Diabetes. <i>Cell Reports</i> , 2017, 20, 3135-3148.	2.9	57
110	Time-resolved metabolomics reveals metabolic modulation in rice foliage. <i>BMC Systems Biology</i> , 2008, 2, 51.	3.0	56
111	Large-Scale Prediction of Cationic Metabolite Identity and Migration Time in Capillary Electrophoresis Mass Spectrometry Using Artificial Neural Networks. <i>Analytical Chemistry</i> , 2005, 77, 78-84.	3.2	55
112	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. <i>Cell Reports</i> , 2017, 21, 3536-3547.	2.9	55
113	Prediction of Liquid Chromatographic Retention Times of Peptides Generated by Protease Digestion of the <i>Escherichia coli</i> Proteome Using Artificial Neural Networks. <i>Journal of Proteome Research</i> , 2006, 5, 3312-3317.	1.8	54
114	Conductivity detection in capillary zone electrophoresis: Inspection by PeakMaster. <i>Electrophoresis</i> , 2005, 26, 1948-1953.	1.3	53
115	Two Atypical l-Cysteine-regulated NADPH-dependent Oxidoreductases Involved in Redox Maintenance, l-Cystine and Iron Reduction, and Metronidazole Activation in the Enteric Protozoan <i>Entamoeba histolytica</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 26889-26899.	1.6	53
116	Inhibition of ATP citrate lyase induces triglyceride accumulation with altered fatty acid composition in cancer cells. <i>International Journal of Cancer</i> , 2014, 135, 37-47.	2.3	52
117	Microhomology-assisted scarless genome editing in human iPSCs. <i>Nature Communications</i> , 2018, 9, 939.	5.8	52
118	Differential metabolomics software for capillary electrophoresis-mass spectrometry data analysis. <i>Metabolomics</i> , 2010, 6, 27-41.	1.4	51
119	Dramatic Increase in Glycerol Biosynthesis upon Oxidative Stress in the Anaerobic Protozoan Parasite <i>Entamoeba histolytica</i> . <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1831.	1.3	51
120	Identification of biomarkers for development of end-stage kidney disease in chronic kidney disease by metabolomic profiling. <i>Scientific Reports</i> , 2016, 6, 26138.	1.6	50
121	<sc>ACSL</sc>3 promotes intratumoral steroidogenesis in prostate cancer cells. <i>Cancer Science</i> , 2017, 108, 2011-2021.	1.7	50
122	Metabolic Profiling of Total Physical Activity and Sedentary Behavior in Community-Dwelling Men. <i>PLoS ONE</i> , 2016, 11, e0164877.	1.1	50
123	L-Carnitine prevents the development of ventricular fibrosis and heart failure with preserved ejection fraction in hypertensive heart disease. <i>Journal of Hypertension</i> , 2012, 30, 1834-1844.	0.3	49
124	Antioxidant role of autophagy in maintaining the integrity of glomerular capillaries. <i>Autophagy</i> , 2018, 14, 53-65.	4.3	49
125	IDH2 and NPM1 Mutations Cooperate to Activate Hoxa9/Meis1 and Hypoxia Pathways in Acute Myeloid Leukemia. <i>Cancer Research</i> , 2015, 75, 2005-2016.	0.4	48
126	Selective inhibition of mutant IDH1 by DS-1001b ameliorates aberrant histone modifications and impairs tumor activity in chondrosarcoma. <i>Oncogene</i> , 2019, 38, 6835-6849.	2.6	48

#	ARTICLE	IF	CITATIONS
127	Direct chiral resolution of lactic acid in food products by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 875, 371-377.	1.8	47
128	Smad2/3 Proteins Are Required for Immobilization-induced Skeletal Muscle Atrophy. <i>Journal of Biological Chemistry</i> , 2016, 291, 12184-12194.	1.6	47
129	Remodelling of microRNAs in colorectal cancer by hypoxia alters metabolism profiles and 5-fluorouracil resistance. <i>Human Molecular Genetics</i> , 2017, 26, 1552-1564.	1.4	47
130	In silico modeling and metabolome analysis of long-stored erythrocytes to improve blood storage methods. <i>Journal of Biotechnology</i> , 2009, 144, 212-223.	1.9	46
131	Autophagy protects kidney proximal tubule epithelial cells from mitochondrial metabolic stress. <i>Autophagy</i> , 2013, 9, 1876-1886.	4.3	46
132	Metabolomics Platform with Capillary Electrophoresis Coupled with High-Resolution Mass Spectrometry for Plasma Analysis. <i>Analytical Chemistry</i> , 2019, 91, 1295-1301.	3.2	46
133	Inhibition of ATP Citrate Lyase Induces an Anticancer Effect via Reactive Oxygen Species. <i>American Journal of Pathology</i> , 2013, 182, 1800-1810.	1.9	44
134	Intensive DNA Replication and Metabolism during the Lag Phase in Cyanobacteria. <i>PLoS ONE</i> , 2015, 10, e0136800.	1.1	44
135	GLUT6 is a lysosomal transporter that is regulated by inflammatory stimuli and modulates glycolysis in macrophages. <i>FEBS Letters</i> , 2019, 593, 195-208.	1.3	44
136	Lactate production is a prioritized feature of adipocyte metabolism. <i>Journal of Biological Chemistry</i> , 2020, 295, 83-98.	1.6	44
137	Metabolome Analysis Revealed Increase in S-Methylcysteine and Phosphatidylisopropanolamine Synthesis upon l-Cysteine Deprivation in the Anaerobic Protozoan Parasite <i>Entamoeba histolytica</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 39160-39170.	1.6	43
138	Prolyl hydroxylase domain enzymes: important regulators of cancer metabolism. <i>Hypoxia (Auckland, N Z)</i> 2019, 7, 1-10.	1.9	43
139	Decreased miR122 in hepatocellular carcinoma leads to chemoresistance with increased arginine. <i>Oncotarget</i> , 2015, 6, 8339-8352.	0.8	43
140	Thymidine Catabolism as a Metabolic Strategy for Cancer Survival. <i>Cell Reports</i> , 2017, 19, 1313-1321.	2.9	43
141	The Consumption of Bicarbonate-Rich Mineral Water Improves Glycemic Control. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-10.	0.5	42
142	Urinary Polyamine Biomarker Panels with Machine-Learning Differentiated Colorectal Cancers, Benign Disease, and Healthy Controls. <i>International Journal of Molecular Sciences</i> , 2018, 19, 756.	1.8	42
143	A Metabologenomic Approach Reveals Changes in the Intestinal Environment of Mice Fed on American Diet. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4079.	1.8	41
144	MITF controls the TCA cycle to modulate the melanoma hypoxia response. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 792-808.	1.5	41

#	ARTICLE	IF	CITATIONS
145	Gamma-Aminobutyric Acid Signaling in Brown Adipose Tissue Promotes Systemic Metabolic Derangement in Obesity. <i>Cell Reports</i> , 2018, 24, 2827-2837.e5.	2.9	40
146	Metabolomic Identification of the Target of the Filopodia Protrusion Inhibitor Glucopiericidin A. <i>Chemistry and Biology</i> , 2010, 17, 989-998.	6.2	39
147	Metabolomic study of Chilean biomining bacteria <i>Acidithiobacillus ferrooxidans</i> strain Wenelen and <i>Acidithiobacillus thiooxidans</i> strain Licanantay. <i>Metabolomics</i> , 2013, 9, 247-257.	1.4	39
148	Potential Biomarkers of Fatigue Identified by Plasma Metabolome Analysis in Rats. <i>PLoS ONE</i> , 2015, 10, e0120106.	1.1	39
149	Carbonic anhydrase 2 (CAII) supports tumor blood endothelial cell survival under lactic acidosis in the tumor microenvironment. <i>Cell Communication and Signaling</i> , 2019, 17, 169.	2.7	39
150	Amino acid transporters as emerging therapeutic targets in cancer. <i>Cancer Science</i> , 2021, 112, 2958-2965.	1.7	39
151	Analysis of halides, oxyhalides and metal oxoacids by capillary electrophoresis with suppressed electroosmotic flow. <i>Journal of Chromatography A</i> , 1995, 718, 421-428.	1.8	38
152	Cytotoxic effect of amide derivatives of trifluoromethionine against the enteric protozoan parasite <i>Entamoeba histolytica</i> . <i>International Journal of Antimicrobial Agents</i> , 2010, 35, 56-61.	1.1	38
153	A serum metabolomics-based profile in low bone mineral density postmenopausal women. <i>Bone</i> , 2017, 95, 1-4.	1.4	38
154	Direct chiral resolution of malic acid in apple juice by ligand-exchange capillary electrophoresis using copper(II)-L-tartaric acid as a chiral selector. <i>Electrophoresis</i> , 2001, 22, 3286-3290.	1.3	37
155	Disruption of HIF-1 α in hepatocytes impairs glucose metabolism in diet-induced obesity mice. <i>Biochemical and Biophysical Research Communications</i> , 2011, 415, 445-449.	1.0	37
156	Ketone body 3-hydroxybutyrate mimics calorie restriction via the Nrf2 activator, fumarate, in the retina. <i>Aging Cell</i> , 2018, 17, e12699.	3.0	37
157	Rescue of anaemia and autoimmune responses in <i>SOD1</i> -deficient mice by transgenic expression of human <i>SOD1</i> in erythrocytes. <i>Biochemical Journal</i> , 2009, 422, 313-320.	1.7	36
158	Trans-omic Analysis Reveals Selective Responses to Induced and Basal Insulin across Signaling, Transcriptional, and Metabolic Networks. <i>IScience</i> , 2018, 7, 212-229.	1.9	36
159	Effect of masticatory stimulation on the quantity and quality of saliva and the salivary metabolomic profile. <i>PLoS ONE</i> , 2017, 12, e0183109.	1.1	36
160	Analysis of liver metabolism in a rat model of heart failure. <i>International Journal of Cardiology</i> , 2012, 161, 130-136.	0.8	35
161	Stimulating <i>S</i> -adenosyl- <i>methionine</i> synthesis extends lifespan via activation of AMPK. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11913-11918.	3.3	35
162	Sodium chloride promotes tissue inflammation via osmotic stimuli in subtotal-nephrectomized mice. <i>Laboratory Investigation</i> , 2017, 97, 432-446.	1.7	35

#	ARTICLE	IF	CITATIONS
163	The guanylate cyclase C agonist linaclotide ameliorates the gutâ€œcardioâ€œrenal axis in an adenine-induced mouse model of chronic kidney disease. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 250-264.	0.4	35
164	Transcriptional Regulation of Organic Anion Transporting Polypeptide SLCO4C1 as a New Therapeutic Modality to Prevent Chronic Kidney Disease. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 3696-3707.	1.6	34
165	In vivo role of aldehyde reductase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1787-1796.	1.1	34
166	Disturbed biopterin and folate metabolism in the <i>Qdpr</i> -deficient mouse. <i>FEBS Letters</i> , 2014, 588, 3924-3931.	1.3	34
167	Profiling of plasma metabolites in postmenopausal women with metabolic syndrome. <i>Menopause</i> , 2016, 23, 749-758.	0.8	34
168	Dynamic Simulation and Metabolome Analysis of Long-Term Erythrocyte Storage in Adenineâ€œGuanosine Solution. <i>PLoS ONE</i> , 2013, 8, e71060.	1.1	34
169	Hypotaurine is an Energy-Saving Hepatoprotective Compound against Ischemia-Reperfusion Injury of the Rat Liver. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2010, 46, 126-134.	0.6	34
170	Mass Spectrometric Analysis of <i>l</i> -Cysteine Metabolism: Physiological Role and Fate of <i>l</i> -Cysteine in the Enteric Protozoan Parasite <i>Entamoeba histolytica</i> . <i>MBio</i> , 2014, 5, e01995.	1.8	33
171	Effects of 3-styrylchromones on metabolic profiles and cell death in oral squamous cell carcinoma cells. <i>Toxicology Reports</i> , 2015, 2, 1281-1290.	1.6	33
172	Development of a sheathless CEâ€œESIâ€œMS interface. <i>Electrophoresis</i> , 2018, 39, 1382-1389.	1.3	33
173	Metabolomics-based profiles predictive of low bone mass in menopausal women. <i>Bone Reports</i> , 2018, 9, 11-18.	0.2	33
174	Low tumor glutathione level as a sensitivity marker for glutamateâ€œcysteine ligase inhibitors. <i>Oncology Letters</i> , 2018, 15, 8735-8743.	0.8	33
175	A Yeast Metabolite Extraction Protocol Optimised for Time-Series Analyses. <i>PLoS ONE</i> , 2012, 7, e44283.	1.1	33
176	A Metabolomic Approach to Clarifying the Effect of AST-120 on 5/6 Nephrectomized Rats by Capillary Electrophoresis with Mass Spectrometry (CE-MS). <i>Toxins</i> , 2012, 4, 1309-1322.	1.5	31
177	Glycogen is the primary source of glucose during the lag phase of <i>E. coli</i> proliferation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1442-1448.	1.1	31
178	Metabolomic profiling of the response of susceptible and resistant soybean strains to foxglove aphid, <i>Aulacorthum solani</i> Kaltentbach. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 925, 95-103.	1.2	31
179	Metabolic Profiling to Identify Potential Serum Biomarkers for Gastric Ulceration Induced by Nonsteroid Anti-Inflammatory Drugs. <i>Journal of Proteome Research</i> , 2013, 12, 1399-1407.	1.8	31
180	Therapeutic Strategy for Targeting Aggressive Malignant Gliomas by Disrupting Their Energy Balance. <i>Journal of Biological Chemistry</i> , 2016, 291, 21496-21509.	1.6	31

#	ARTICLE	IF	CITATIONS
181	Effect of storage conditions on salivary polyamines quantified via liquid chromatography-mass spectrometry. <i>Scientific Reports</i> , 2018, 8, 12075.	1.6	31
182	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. <i>Journal of Biological Chemistry</i> , 2020, 295, 13250-13266.	1.6	31
183	Differences in the fatty acid metabolism of visceral adipose tissue in postmenopausal women. <i>Menopause</i> , 2014, 21, 170-176.	0.8	30
184	Development of quantitative method for determination of $\hat{1}^3$ -glutamyl peptides by capillary electrophoresis tandem mass spectrometry: An efficient approach avoiding matrix effect. <i>Journal of Chromatography A</i> , 2014, 1369, 161-169.	1.8	30
185	Unveiling cellular biochemical reactions via metabolomics-driven approaches. <i>Current Opinion in Microbiology</i> , 2010, 13, 358-362.	2.3	29
186	Persistent Overexpression of Phosphoglycerate Mutase, a Glycolytic Enzyme, Modifies Energy Metabolism and Reduces Stress Resistance of Heart in Mice. <i>PLoS ONE</i> , 2013, 8, e72173.	1.1	29
187	Phosphoethanolamine Accumulation Protects Cancer Cells under Glutamine Starvation through Downregulation of PCYT2. <i>Cell Reports</i> , 2019, 29, 89-103.e7.	2.9	29
188	Metabolome profiling of various seaweed species discriminates between brown, red, and green algae. <i>Planta</i> , 2019, 249, 1921-1947.	1.6	29
189	TGF- $\hat{1}^2$ -dependent reprogramming of amino acid metabolism induces epithelial $\hat{1}^{\text{c}}$ mesenchymal transition in non-small cell lung cancers. <i>Communications Biology</i> , 2021, 4, 782.	2.0	29
190	Application of capillary electrophoresis-mass spectrometry to synthetic in vitro glycolysis studies. <i>Electrophoresis</i> , 2004, 25, 1996-2002.	1.3	28
191	Association between dyslipidemia and plasma levels of branched-chain amino acids in the Japanese population without diabetes mellitus. <i>Journal of Clinical Lipidology</i> , 2019, 13, 932-939.e2.	0.6	28
192	Effects of inter-day and intra-day variation on salivary metabolomic profiles. <i>Clinica Chimica Acta</i> , 2019, 489, 41-48.	0.5	28
193	Reprogramming of glutamine metabolism via glutamine synthetase silencing induces cisplatin resistance in A2780 ovarian cancer cells. <i>BMC Cancer</i> , 2021, 21, 174.	1.1	28
194	Concise Review: Genetic Dissection of Hypoxia Signaling Pathways in Normal and Leukemic Stem Cells. <i>Stem Cells</i> , 2014, 32, 1390-1397.	1.4	27
195	Metabolomic Profiling as a Possible Reverse Engineering Tool for Estimating Processing Conditions of Dry-Cured Hams. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 402-410.	2.4	27
196	L-type amino acid transporter 1 is associated with chemoresistance in breast cancer via the promotion of amino acid metabolism. <i>Scientific Reports</i> , 2021, 11, 589.	1.6	27
197	Acetaminophen-Induced Hepatotoxicity in a Liver Tissue Model Consisting of Primary Hepatocytes Assembling around an Endothelial Cell Network. <i>Drug Metabolism and Disposition</i> , 2012, 40, 169-177.	1.7	26
198	Role of smooth muscle cell p53 in pulmonary arterial hypertension. <i>PLoS ONE</i> , 2019, 14, e0212889.	1.1	26

#	ARTICLE	IF	CITATIONS
199	Sensory properties and metabolomic profiles of dry-cured ham during the ripening process. <i>Food Research International</i> , 2020, 129, 108850.	2.9	26
200	Determination of carbohydrates by hydrophilic interaction chromatography with pulsed amperometric detection using postcolumn pH adjustment. <i>Journal of Chromatography A</i> , 1992, 625, 151-155.	1.8	25
201	Profiling of the charged metabolites of traditional herbal medicines using capillary electrophoresis time-of-flight mass spectrometry. <i>Metabolomics</i> , 2012, 8, 99-108.	1.4	25
202	Genetic, metabolomic and transcriptomic analyses of the de novo L-cysteine biosynthetic pathway in the enteric protozoan parasite <i>Entamoeba histolytica</i> . <i>Scientific Reports</i> , 2017, 7, 15649.	1.6	25
203	Comparative analysis of cerebrospinal fluid metabolites in Alzheimer's disease and idiopathic normal pressure hydrocephalus in a Japanese cohort. <i>Biomarker Research</i> , 2018, 6, 5.	2.8	25
204	Stemness and immune evasion conferred by the TDOA-AHR pathway are associated with liver metastasis of colon cancer. <i>Cancer Science</i> , 2022, 113, 170-181.	1.7	25
205	Determination of catecholamines in urine and plasma by on-line sample pretreatment using an internal surface boronic acid gel. <i>Biomedical Applications</i> , 1993, 620, 175-181.	1.7	24
206	Polymer Entrapment in Polymerized Silicate for Preparing Highly Stable Capillary Coatings for CE and CE-MS. <i>Analytical Chemistry</i> , 2007, 79, 7838-7844.	3.2	24
207	Metabolomic profiling of the autosomal dominant polycystic kidney disease rat model. <i>Clinical and Experimental Nephrology</i> , 2011, 15, 676-687.	0.7	24
208	Sex-dependent hepatic transcripts and metabolites in the development of glucose intolerance and insulin resistance in Zucker diabetic fatty rats. <i>Journal of Molecular Endocrinology</i> , 2011, 47, 129-143.	1.1	24
209	A Metabolomic-Based Evaluation of the Role of Commensal Microbiota throughout the Gastrointestinal Tract in Mice. <i>Microorganisms</i> , 2018, 6, 101.	1.6	24
210	Adenosine leakage from perforin-burst extracellular vesicles inhibits perforin secretion by cytotoxic T-lymphocytes. <i>PLoS ONE</i> , 2020, 15, e0231430.	1.1	24
211	Group IIA secreted phospholipase A2 controls skin carcinogenesis and psoriasis by shaping the gut microbiota. <i>JCI Insight</i> , 2022, 7, .	2.3	24
212	Serum Metabolomic Profiles for Human Pancreatic Cancer Discrimination. <i>International Journal of Molecular Sciences</i> , 2017, 18, 767.	1.8	23
213	Purine nucleotide metabolism regulates expression of the human immune ligand MICA. <i>Journal of Biological Chemistry</i> , 2018, 293, 3913-3924.	1.6	23
214	T cell-specific deletion of <i>Pgam1</i> reveals a critical role for glycolysis in T cell responses. <i>Communications Biology</i> , 2020, 3, 394.	2.0	23
215	Modelling urea-cycle disorder citrullinemia type 1 with disease-specific iPSCs. <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 613-619.	1.0	22
216	Adaptation to HIF1 α Deletion in Hypoxic Cancer Cells by Upregulation of GLUT14 and Creatine Metabolism. <i>Molecular Cancer Research</i> , 2019, 17, 1531-1544.	1.5	22

#	ARTICLE	IF	CITATIONS
217	Succinate dehydrogenase B-deficient cancer cells are highly sensitive to bromodomain and extra-terminal inhibitors. <i>Oncotarget</i> , 2017, 8, 28922-28938.	0.8	22
218	A medium-chain fatty acid as an alternative energy source in mouse preimplantation development. <i>Scientific Reports</i> , 2012, 2, 930.	1.6	21
219	Thymidine phosphorylase activates NF κ B and stimulates the expression of angiogenic and metastatic factors in human cancer cells. <i>Oncotarget</i> , 2014, 5, 10473-10485.	0.8	21
220	Folliculin Regulates Osteoclastogenesis Through Metabolic Regulation. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1785-1798.	3.1	21
221	Transomics analysis reveals allosteric and gene regulation axes for altered hepatic glucose-responsive metabolism in obesity. <i>Science Signaling</i> , 2020, 13, .	1.6	21
222	Trans-omic analysis reveals obesity-associated dysregulation of inter-organ metabolic cycles between the liver and skeletal muscle. <i>IScience</i> , 2021, 24, 102217.	1.9	21
223	High-throughput screening of salivary polyamine markers for discrimination of colorectal cancer by multisegment injection capillary electrophoresis tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1652, 462355.	1.8	21
224	Capillary Electrophoresis-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2015, 1277, 113-122.	0.4	21
225	A novel mechanism regulates H ₂ S and SO ₂ production in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2011, 28, 109-121.	0.8	20
226	Dynamics of serum metabolites in patients with chronic hepatitis C receiving pegylated interferon plus ribavirin: A metabolomics analysis. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 1577-1586.	1.5	20
227	Metabolomic profiling reveals salivary hypotaurine as a potential early detection marker for medication-related osteonecrosis of the jaw. <i>PLoS ONE</i> , 2019, 14, e0220712.	1.1	20
228	Local Necrotic Cells Trigger Systemic Immune Activation via Gut Microbiome Dysbiosis in <i>Drosophila</i> . <i>Cell Reports</i> , 2020, 32, 107938.	2.9	20
229	Mono-(2-ethylhexyl) phthalate Targets Glycogen Debranching Enzyme and Affects Glycogen Metabolism in Rat Testis. <i>Toxicological Sciences</i> , 2009, 109, 143-151.	1.4	19
230	Lacking ketohexokinase-A exacerbates renal injury in streptozotocin-induced diabetic mice. <i>Metabolism: Clinical and Experimental</i> , 2018, 85, 161-170.	1.5	19
231	Petasin potently inhibits mitochondrial complex I α -based metabolism that supports tumor growth and metastasis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	19
232	Metabolic profiling of prostate cancer in skeletal microenvironments identifies G6PD as a key mediator of growth and survival. <i>Science Advances</i> , 2022, 8, eabf9096.	4.7	19
233	Model-based Definition of Population Heterogeneity and Its Effects on Metabolism in Sporulating <i>Bacillus subtilis</i> . <i>Journal of Biochemistry</i> , 2007, 142, 183-191.	0.9	18
234	Biochemical and functional characterization of novel NADH kinase in the enteric protozoan parasite <i>Entamoeba histolytica</i> . <i>Biochimie</i> , 2013, 95, 309-319.	1.3	18

#	ARTICLE	IF	CITATIONS
235	Metabolomic profiling analysis reveals chamber-dependent metabolite patterns in the mouse heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H494-H505.	1.5	18
236	Acquisition of chemoresistance to gemcitabine is induced by a loss-of-function missense mutation of DCK. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 1084-1089.	1.0	18
237	Cancer-Specific Energy Metabolism in Rhabdomyosarcoma Cells Is Regulated by MicroRNA. <i>Nucleic Acid Therapeutics</i> , 2017, 27, 365-377.	2.0	18
238	Mutant IDH1 confers resistance to energy stress in normal biliary cells through PFKP-induced aerobic glycolysis and AMPK activation. <i>Scientific Reports</i> , 2019, 9, 18859.	1.6	18
239	Effects of feed crops and boiling on chicken egg yolk and white determined by a metabolome analysis. <i>Food Chemistry</i> , 2020, 327, 127077.	4.2	18
240	The CD44/COL17A1 pathway promotes the formation of multilayered, transformed epithelia. <i>Current Biology</i> , 2021, 31, 3086-3097.e7.	1.8	18
241	Empagliflozin maintains capillarization and improves cardiac function in a murine model of left ventricular pressure overload. <i>Scientific Reports</i> , 2021, 11, 18384.	1.6	18
242	The metabolic profile of a rat model of chronic kidney disease. <i>PeerJ</i> , 2017, 5, e3352.	0.9	18
243	Metabolomic profiling rationalized pyruvate efficacy in cybrid cells harboring MELAS mitochondrial DNA mutations. <i>Mitochondrion</i> , 2012, 12, 644-653.	1.6	17
244	Cancer with low cathepsin D levels is susceptible to vacuolar (H ⁺) _v -ATPase inhibition. <i>Cancer Science</i> , 2017, 108, 1185-1193.	1.7	17
245	Drying and extraction effects on three edible brown seaweeds for metabolomics. <i>Journal of Applied Phycology</i> , 2018, 30, 3335-3350.	1.5	17
246	Kinetic Trans-omic Analysis Reveals Key Regulatory Mechanisms for Insulin-Regulated Glucose Metabolism in Adipocytes. <i>IScience</i> , 2020, 23, 101479.	1.9	17
247	EV11 triggers metabolic reprogramming associated with leukemogenesis and increases sensitivity to L-asparaginase. <i>Haematologica</i> , 2020, 105, 2118-2129.	1.7	17
248	Artificial hibernation/life-protective state induced by thiazoline-related innate fear odors. <i>Communications Biology</i> , 2021, 4, 101.	2.0	17
249	Inhibition of dipeptidyl peptidase-4 ameliorates cardiac ischemia and systolic dysfunction by up-regulating the FGF-2/EGR-1 pathway. <i>PLoS ONE</i> , 2017, 12, e0182422.	1.1	17
250	Identification of the first highly selective inhibitor of human lactate dehydrogenase B. <i>Scientific Reports</i> , 2021, 11, 21353.	1.6	17
251	Changes of metabolic profiles in an oral squamous cell carcinoma cell line induced by eugenol. <i>In Vivo</i> , 2013, 27, 233-43.	0.6	17
252	Determination of Inorganic and Organic Anions in Beer and Wort by Capillary Electrophoresis. <i>Journal of the American Society of Brewing Chemists</i> , 1997, 55, 44-46.	0.8	16

#	ARTICLE	IF	CITATIONS
253	Metabolomic profiling of sodium fluoride-induced cytotoxicity in an oral squamous cell carcinoma cell line. <i>Metabolomics</i> , 2014, 10, 270-279.	1.4	16
254	Trans-omic Analysis Reveals ROS-Dependent Pentose Phosphate Pathway Activation after High-Frequency Electrical Stimulation in C2C12 Myotubes. <i>IScience</i> , 2020, 23, 101558.	1.9	16
255	Paternal restraint stress affects offspring metabolism via ATF-2 dependent mechanisms in <i>Drosophila melanogaster</i> germ cells. <i>Communications Biology</i> , 2020, 3, 208.	2.0	16
256	Comprehensive Dipeptide Profiling and Quantitation by Capillary Electrophoresis and Liquid Chromatography Coupled with Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 9799-9806.	3.2	16
257	Effect of blanching on the concentration of metabolites in two parts of <i>Undaria pinnatifida</i> , Wakame (leaf) and Mekabu (sporophyll). <i>Algal Research</i> , 2020, 47, 101829.	2.4	16
258	Cardiac mitofusin-1 is reduced in non-responding patients with idiopathic dilated cardiomyopathy. <i>Scientific Reports</i> , 2021, 11, 6722.	1.6	16
259	Metabolomic Analysis of Small Extracellular Vesicles Derived from Pancreatic Cancer Cells Cultured under Normoxia and Hypoxia. <i>Metabolites</i> , 2021, 11, 215.	1.3	16
260	Hydroxyproline, a Serum Biomarker Candidate for Gastric Ulcer in Rats: A Comparison Study of Metabolic Analysis of Gastric Ulcer Models Induced by Ethanol, Stress, and Aspirin. <i>Biomarker Insights</i> , 2014, 9, BMI.S15918.	1.0	15
261	Human AK2 links intracellular bioenergetic redistribution to the fate of hematopoietic progenitors. <i>Biochemical and Biophysical Research Communications</i> , 2018, 497, 719-725.	1.0	15
262	Comprehensive Dipeptide Analysis Revealed Cancer-Specific Profile in the Liver of Patients with Hepatocellular Carcinoma and Hepatitis. <i>Metabolites</i> , 2020, 10, 442.	1.3	15
263	The use of a double coaxial electrospray ionization sprayer improves the peak resolutions of anionic metabolites in capillary ion chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1619, 460914.	1.8	15
264	Fetal Growth Retardation and Lack of Hypotaurine in Ezrin Knockout Mice. <i>PLoS ONE</i> , 2014, 9, e105423.	1.1	15
265	Metabolome analysis and metabolic simulation. <i>Metabolomics</i> , 2005, 1, 29-37.	1.4	14
266	Amino Acid Analysis by Capillary Electrophoresis-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2012, 828, 77-82.	0.4	14
267	Thymidine catabolism promotes NADPH oxidase-derived reactive oxygen species (ROS) signalling in KB and ymuto cells. <i>Scientific Reports</i> , 2018, 8, 6760.	1.6	14
268	Targeting Amino Acid Metabolic Reprogramming via L-Type Amino Acid Transporter 1 (LAT1) for Endocrine-Resistant Breast Cancer. <i>Cancers</i> , 2021, 13, 4375.	1.7	14
269	Microelectrospray interface with coaxial sheath flow for high-resolution capillary electrophoresis/mass spectrometry separation. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3579-3584.	0.7	13
270	Characterization of cancer omics and drug perturbations in panels of lung cancer cells. <i>Scientific Reports</i> , 2019, 9, 19529.	1.6	13

#	ARTICLE	IF	CITATIONS
271	Inosine pranobex enhances human NK cell cytotoxicity by inducing metabolic activation and NKG2D ligand expression. <i>European Journal of Immunology</i> , 2020, 50, 130-137.	1.6	13
272	Charged metabolite biomarkers of food intake assessed via plasma metabolomics in a population-based observational study in Japan. <i>PLoS ONE</i> , 2021, 16, e0246456.	1.1	13
273	Phylogenetic position of a rare loricated green alga, <i>Cephalomonas granulata</i> N. L. Higinb. (Volvocales, Chlorophyceae). <i>Phycological Research</i> , 2010, 58, 62-68.	0.8	12
274	Metabolome profiling of floral scent production in <i>Petunia axillaris</i> . <i>Phytochemistry</i> , 2013, 90, 37-42.	1.4	12
275	Metabolome Analysis Reveals Dermal Histamine Accumulation in Murine Dermatitis Provoked by Genetic Deletion of P-Glycoprotein and Breast Cancer Resistance Protein. <i>Pharmaceutical Research</i> , 2019, 36, 158.	1.7	12
276	Serum metabolome profiles characterized by patients with hepatocellular carcinoma associated with hepatitis B and C. <i>World Journal of Gastroenterology</i> , 2016, 22, 6224.	1.4	12
277	<i>S</i> -adenosylhomocysteine extends lifespan through methionine restriction effects. <i>Aging Cell</i> , 2022, 21, e13604.	3.0	12
278	Visualization of three-way comparisons of omics data. <i>BMC Bioinformatics</i> , 2007, 8, 72.	1.2	11
279	Time-resolved metabolomics of a novel trebouxiophycean alga using ¹³ CO ₂ feeding. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 408-415.	1.1	11
280	Metabolomic analysis of the effects of omeprazole and famotidine on aspirin-induced gastric injury. <i>Metabolomics</i> , 2014, 10, 995-1004.	1.4	11
281	Changes of liver metabolites following hepatectomy with ischemia reperfusion towards liver regeneration. <i>Annals of Gastroenterological Surgery</i> , 2018, 2, 204-211.	1.2	11
282	Relationship between Standard Uptake Values of Positron Emission Tomography/Computed Tomography and Salivary Metabolites in Oral Cancer: A Pilot Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 3958.	1.0	11
283	Multi-omics-based label-free metabolic flux inference reveals obesity-associated dysregulatory mechanisms in liver glucose metabolism. <i>IScience</i> , 2022, 25, 103787.	1.9	11
284	Salivary metabolomics with machine learning for colorectal cancer detection. <i>Cancer Science</i> , 2022, 113, 3234-3243.	1.7	11
285	Positive Autoregulation Delays the Expression Phase of Mammalian Clock Gene <i>Per2</i> . <i>PLoS ONE</i> , 2011, 6, e18663.	1.1	10
286	Differences in peritoneal solute transport rates in peritoneal dialysis. <i>Clinical and Experimental Nephrology</i> , 2019, 23, 122-134.	0.7	10
287	A metabolic profile of routine needle biopsies identified tumor type specific metabolic signatures for breast cancer stratification: a pilot study. <i>Metabolomics</i> , 2019, 15, 147.	1.4	10
288	A Metabolomic Profile Predictive of New Osteoporosis or Sarcopenia Development. <i>Metabolites</i> , 2021, 11, 278.	1.3	10

#	ARTICLE	IF	CITATIONS
289	Glutamine deficiency in solid tumor cells confers resistance to ribosomal RNA synthesis inhibitors. <i>Nature Communications</i> , 2022, 13, .	5.8	10
290	The dynamics of cellular energetics during continuous yeast culture. , 2013, 2013, 2708-11.		9
291	Metabolome Analysis of Erythrocytes from Patients with Chronic Hepatitis C Reveals the Etiology of Ribavirin-Induced Hemolysis. <i>International Journal of Medical Sciences</i> , 2013, 10, 1575-1577.	1.1	9
292	Beta-galactosidase-responsive synthetic biomarker for targeted tumor detection. <i>Chemical Communications</i> , 2018, 54, 11745-11748.	2.2	9
293	Methionine restriction breaks obligatory coupling of cell proliferation and death by an oncogene Src in <i>Drosophila</i> . <i>ELife</i> , 2021, 10, .	2.8	9
294	Time resolved DNA occupancy dynamics during the respiratory oscillation uncover a global reset point in the yeast growth program. <i>Microbial Cell</i> , 2014, 1, 279-288.	1.4	9
295	Plant hvu-MIR168-3p enhances expression of glucose transporter 1 (SLC2A1) in human cells by silencing genes related to mitochondrial electron transport chain complex I. <i>Journal of Nutritional Biochemistry</i> , 2022, 101, 108922.	1.9	9
296	Glucocorticoid imprints a low glucose metabolism onto CD8 T cells and induces the persistent suppression of the immune response. <i>Biochemical and Biophysical Research Communications</i> , 2022, 588, 34-40.	1.0	9
297	Chapter 14 Analysis of carbohydrates in food and beverages by HPLC and CE. <i>Journal of Chromatography Library</i> , 2002, 66, 483-502.	0.1	8
298	P-BOSS: A new filtering method for treasure hunting in metabolomics. <i>Journal of Chromatography A</i> , 2007, 1159, 142-148.	1.8	8
299	Serum Glycerophosphate Levels are Increased in Japanese Men with Type 2 Diabetes. <i>Internal Medicine</i> , 2012, 51, 545-551.	0.3	8
300	Comparative metabolite profiling of foxglove aphids (<i>Aulacorthum solani</i> Kaltentbach) on leaves of resistant and susceptible soybean strains. <i>Molecular BioSystems</i> , 2014, 10, 909.	2.9	8
301	Upregulation of Thymidylate Synthase Induces Pemetrexed Resistance in Malignant Pleural Mesothelioma. <i>Frontiers in Pharmacology</i> , 2021, 12, 718675.	1.6	8
302	Quantification of Salivary Charged Metabolites using Capillary Electrophoresis Time-of-flight-mass Spectrometry. <i>Bio-protocol</i> , 2020, 10, e3797.	0.2	8
303	Polarity protein SCRIB interacts with SLC3A2 to regulate proliferation and tamoxifen resistance in ER+ breast cancer. <i>Communications Biology</i> , 2022, 5, 403.	2.0	8
304	Abundant Nucleostemin Expression Supports the Undifferentiated Properties of Germ Cell Tumors. <i>American Journal of Pathology</i> , 2013, 183, 592-603.	1.9	7
305	Metabolomics of an <i>in vitro&/i> liver model containing primary hepatocytes assembling around an endothelial cell network: comparative study on the metabolic stability and the effect of acetaminophen treatment. <i>Journal of Toxicological Sciences</i> , 2017, 42, 445-454.	0.7	7
306	Metabolic Characterization of Antifolate Responsiveness and Non-responsiveness in Malignant Pleural Mesothelioma Cells. <i>Frontiers in Pharmacology</i> , 2018, 9, 1129.	1.6	7

#	ARTICLE	IF	CITATIONS
307	Pharmacologically targetable vulnerability in prostate cancer carrying RB1-SUCLA2 deletion. <i>Oncogene</i> , 2020, 39, 5690-5707.	2.6	7
308	Proteomic and metabolomic analyses uncover sex-specific regulatory pathways in mouse fetal germline differentiation. <i>Biology of Reproduction</i> , 2020, 103, 717-735.	1.2	7
309	An extensive and dynamic trans-omic network illustrating prominent regulatory mechanisms in response to insulin in the liver. <i>Cell Reports</i> , 2021, 36, 109569.	2.9	7
310	Metabolic profiling of charged metabolites in association with menopausal status in Japanese community-dwelling midlife women: Tsuruoka Metabolomic Cohort Study. <i>Maturitas</i> , 2022, 155, 54-62.	1.0	7
311	Reliability of urinary charged metabolite concentrations in a large-scale cohort study using capillary electrophoresis-mass spectrometry. <i>Scientific Reports</i> , 2021, 11, 7407.	1.6	6
312	Quality Assessment of Untargeted Analytical Data in a Large-Scale Metabolomic Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 1826.	1.0	6
313	Urinary Metabolome Analyses of Patients with Acute Kidney Injury Using Capillary Electrophoresis-Mass Spectrometry. <i>Metabolites</i> , 2021, 11, 671.	1.3	6
314	Comparative Metabolomics of Small Molecules Specifically Expressed in the Dorsal or Ventral Marginal Zones in Vertebrate Gastrula. <i>Metabolites</i> , 2022, 12, 566.	1.3	6
315	<i>Chlorogonium complexum</i> sp. nov. (Volvocales, Chlorophyceae), and morphological evolution of <i>Chlorogonium</i> . <i>European Journal of Phycology</i> , 2010, 45, 97-106.	0.9	5
316	Perioperative serum and urine metabolome analyses in patients with hepatocellular carcinoma undergoing partial hepatectomy. <i>Nutrition</i> , 2019, 58, 110-119.	1.1	5
317	Pyruvate dehydrogenase activation precedes the down-regulation of fatty acid oxidation in monocrotaline-induced myocardial toxicity in mice. <i>Heart and Vessels</i> , 2019, 34, 545-555.	0.5	5
318	Quantitative and Molecular Similarity Analyses of the Metabolites of Cold- and Hot-Natured Chinese Herbs. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-10.	0.5	5
319	MEK inhibition preferentially suppresses anchorage-independent growth in osteosarcoma cells and decreases tumors in vivo. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2732-2743.	1.2	5
320	Four features of temporal patterns characterize similarity among individuals and molecules by glucose ingestion in humans. <i>Npj Systems Biology and Applications</i> , 2022, 8, 6.	1.4	5
321	AGE/RAGE axis regulates reversible transition to quiescent states of ALK-rearranged NSCLC and pancreatic cancer cells in monolayer cultures. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
322	GTP-dependent RNA 3'-terminal phosphate cyclase from the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . <i>Genes To Cells</i> , 2011, 16, 1190-1199.	0.5	4
323	Extracellular metabolite dynamics and temporal organization of metabolic function in <i>E. coli</i> . , 2012, , .		4
324	De novo deoxyribonucleotide biosynthesis regulates cell growth and tumor progression in small-cell lung carcinoma. <i>Scientific Reports</i> , 2021, 11, 13474.	1.6	4

#	ARTICLE	IF	CITATIONS
325	Amino Acid Analysis by Capillary Electrophoresis-Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2019, 2030, 307-313.	0.4	4
326	Tumor metabolic alterations after neoadjuvant chemoradiotherapy predict postoperative recurrence in patients with pancreatic cancer. <i>Japanese Journal of Clinical Oncology</i> , 2022, 52, 887-895.	0.6	4
327	<i>E. coli</i> metabolomics: capturing the complexity of a "simple" model. <i>Topics in Current Genetics</i> , 2007, , 189-234.	0.7	3
328	Axis elongation during <i>Xenopus</i> tail-bud stage is regulated by GABA expressed in the anterior-to-mid neural tube. <i>International Journal of Developmental Biology</i> , 2019, 63, 37-43.	0.3	3
329	Comparison of the ischemic and non-ischemic lung cancer metabolome reveals hyper activity of the TCA cycle and autophagy. <i>Biochemical and Biophysical Research Communications</i> , 2020, 530, 285-291.	1.0	3
330	Basigin deficiency prevents anaplerosis and ameliorates insulin resistance and hepatosteatosis. <i>JCI Insight</i> , 2021, 6, .	2.3	3
331	Surgical Treatment for Colorectal Cancer Partially Restores Gut Microbiome and Metabolome Traits. <i>MSystems</i> , 2022, 7, e0001822.	1.7	3
332	Synthetic Biomarker Design by Using Analyte-Responsive Acetaminophen. <i>ChemBioChem</i> , 2017, 18, 910-913.	1.3	2
333	CE-MS-Based Identification of Uremic Solutes Specific to Hemodialysis Patients. <i>Toxins</i> , 2021, 13, 324.	1.5	2
334	Development of CE-MS for Meabolomics.. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2003, 51, 407-411.	0.0	2
335	Differing impact of phosphoglycerate mutase 1-deficiency on brown and white adipose tissue. <i>IScience</i> , 2022, 25, 104268.	1.9	2
336	Study on simultaneous determination methods for anions by capillary electrophoresis.. <i>Bunseki Kagaku</i> , 2000, 49, 645-646.	0.1	1
337	HybGFS: a hybrid method for genome-fingerprint scanning. <i>BMC Bioinformatics</i> , 2006, 7, 479.	1.2	1
338	Metabolome Analysis Based on Capillary Electrophoresis-Mass Spectrometry and Its Application. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2016, 64, 61-64.	0.0	1
339	Metabolome Profiling of Growth Hormone Transgenic Coho Salmon by Capillary Electrophoresis Time-of-Flight Mass Spectrometry. , 2019, , 223-234.		1
340	Metabolome Analysis of Colon Tumor Tissues by Capillary Electrophoresis Time-of-Flight Mass Spectrometer. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2009, 57, 183-186.	0.0	1
341	Hao1 Is Not a Pathogenic Factor for Ectopic Ossifications but Functions to Regulate the TCA Cycle In Vivo. <i>Metabolites</i> , 2022, 12, 82.	1.3	1
342	Comprehensive metabolome analysis of intracellular metabolites in cultured cells. <i>STAR Protocols</i> , 2022, 3, 101531.	0.5	1

#	ARTICLE	IF	CITATIONS
343	S1d2-5 Carbon monoxide as a guardian for liver injury : novel mechanisms mined out by metabolome analyses(S1-d2: "Dynamical Structures and Signaling Mechanism of Sensor) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td (Meta S116.	10.0	50
344	Metabolic Basis of the Transition from Cardiac Hypertrophy to Failure. Journal of Molecular and Cellular Cardiology, 2008, 45, S18.	0.9	0
345	Metabolic Profile of Liver from Rats with Hypertension and Heart Failure. Journal of Molecular and Cellular Cardiology, 2008, 45, S24.	0.9	0
346	Metabolomic Analysis of the Transition from Cardiac Hypertrophy to Failure. Journal of Cardiac Failure, 2008, 14, S153.	0.7	0
347	Title is missing!. Kagaku To Seibutsu, 2008, 46, 228-229.	0.0	0
348	Establishment of Basic Lipidomics Platforms for Discovery of Lipid Biomarkers. Bunseki Kagaku, 2012, 61, 501-512.	0.1	0
349	CE-MS in Metabolomics. , 0, , 293-314.		0
350	CE-MS metabolomics to study cancer metabolism. Denki Eido, 2015, 59, 67-69.	0.0	0
351	Development of Fluorophosphoramidate as a Biocompatibly Transformable Functional Group and its Application as a Phosphate Prodrug for Nucleoside Analogs. ChemMedChem, 2022, 17, .	1.6	0
352	Different types of reactions to E7386 among colorectal cancer patient-derived organoids and corresponding CAFs. Oncology Letters, 2022, 24, .	0.8	0