Tomoyoshi Soga

List of Publications by Year
in descending order

352	26,443	10389 72	8396 147
papers	citations	h-index	g-index

362	362	362	36156
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MassBank: a public repository for sharing mass spectral data for life sciences. Journal of Mass Spectrometry, 2010, 45, 703-714.	1.6	1,831
2	Quantitative Metabolome Analysis Using Capillary Electrophoresis Mass Spectrometry. Journal of Proteome Research, 2003, 2, 488-494.	3.7	912
3	Quantitative Metabolome Profiling of Colon and Stomach Cancer Microenvironment by Capillary Electrophoresis Time-of-Flight Mass Spectrometry. Cancer Research, 2009, 69, 4918-4925.	0.9	822
4	Capillary electrophoresis mass spectrometry-based saliva metabolomics identified oral, breast and pancreatic cancer-specific profiles. Metabolomics, 2010, 6, 78-95.	3.0	783
5	Metagenomic and metabolomic analyses reveal distinct stage-specific phenotypes of the gut microbiota in colorectal cancer. Nature Medicine, 2019, 25, 968-976.	30.7	748
6	Multiple High-Throughput Analyses Monitor the Response of E. coli to Perturbations. Science, 2007, 316, 593-597.	12.6	694
7	Regulation of Glycolysis by Pdk Functions as a Metabolic Checkpoint for Cell Cycle Quiescence in Hematopoietic Stem Cells. Cell Stem Cell, 2013, 12, 49-61.	11.1	659
8	Differential Metabolomics Reveals Ophthalmic Acid as an Oxidative Stress Biomarker Indicating Hepatic Glutathione Consumption*. Journal of Biological Chemistry, 2006, 281, 16768-16776.	3.4	640
9	Amino Acid Analysis by Capillary Electrophoresis Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2000, 72, 1236-1241.	6.5	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. Cancer Cell, 2011, 20, 524-537.	16.8	494
11	Simultaneous Determination of Anionic Intermediates for Bacillus subtilis Metabolic Pathways by Capillary Electrophoresis Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2002, 74, 2233-2239.	6.5	448
12	UCP1-independent signaling involving SERCA2b-mediated calcium cycling regulates beige fat thermogenesis and systemic glucose homeostasis. Nature Medicine, 2017, 23, 1454-1465.	30.7	429
13	Autophagy Protects the Proximal Tubule from Degeneration and Acute Ischemic Injury. Journal of the American Society of Nephrology: JASN, 2011, 22, 902-913.	6.1	388
14	Oncometabolites: linking altered metabolism with cancer. Journal of Clinical Investigation, 2013, 123, 3652-3658.	8.2	334
15	Mitochondrial dysfunction associated with increased oxidative stress and Î±-synuclein accumulation in PARK2 iPSC-derived neurons and postmortem brain tissue. Molecular Brain, 2012, 5, 35.	2.6	333
16	BCAA catabolism in brown fat controls energy homeostasis through SLC25A44. Nature, 2019, 572, 614-619.	27.8	332
17	Metabolomic Profiling of Anionic Metabolites by Capillary Electrophoresis Mass Spectrometry. Analytical Chemistry, 2009, 81, 6165-6174.	6.5	291
18	Metabolome analysis by capillary electrophoresisâ€“mass spectrometry. Journal of Chromatography A, 2007, 1168, 237-246.	3.7	278

#	Article	IF	Citations
19	Bioinformatics Tools for Mass Spectroscopy-Based Metabolomic Data Processing and Analysis. Current Bioinformatics, 2012, 7, 96-108.	1.5	270
20	Global metabolic reprogramming of colorectal cancer occurs at adenoma stage and is induced by MYC. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7697-E7706.	7.1	270
21	p62/Sqstm1 promotes malignancy of HCV-positive hepatocellular carcinoma through Nrf2-dependent metabolic reprogramming. Nature Communications, 2016, 7, 12030.	12.8	253
22	Simultaneous determination of the main metabolites in rice leaves using capillary electrophoresis mass spectrometry and capillary electrophoresis diode array detection. Plant Journal, 2004, 40, 151-163.	5.7	252
23	Analysis of Metabolic Remodeling in Compensated Left Ventricular Hypertrophy and Heart Failure. Circulation: Heart Failure, 2010, 3, 420-430.	3.9	248
24	Measurement of internal body time by blood metabolomics. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9890-9895.	7.1	246
25	Depiction of metabolome changes in histidine-starvedEscherichia coliby CE-TOFMS. Molecular BioSystems, 2008, 4, 135-147.	2.9	243
26	Serum metabolomics reveals Î³-glutamyl dipeptides as biomarkers for discrimination among different forms of liver disease. Journal of Hepatology, 2011, 55, 896-905.	3.7	217
27	Cancer metabolism: Key players in metabolic reprogramming. Cancer Science, 2013, 104, 275-281.	3.9	210
28	Human blood metabolite timetable indicates internal body time. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15036-15041.	7.1	188
29	Metabolomic anatomy of an animal model revealing homeostatic imbalances in dyslipidaemia. Molecular BioSystems, 2011, 7, 1217.	2.9	174
30	Evaluation of the impact of gut microbiota on uremic solute accumulation by a CE-TOFMSâ€“based metabolomics approach. Kidney International, 2017, 92, 634-645.	5.2	173
31	Gut microbiome-derived phenyl sulfate contributes to albuminuria in diabetic kidney disease. Nature Communications, 2019, 10, 1835.	12.8	173
32	Cell competition with normal epithelial cells promotes apical extrusion of transformed cells through metabolicÂchanges. Nature Cell Biology, 2017, 19, 530-541.	10.3	172
33	Gene Knockout and Metabolome Analysis of Carnitine/Organic Cation Transporter OCTN1. Pharmaceutical Research, 2010, 27, 832-840.	3.5	168
34	Metabolic profiling reveals new serum biomarkers for differentiating diabetic nephropathy. Analytical and Bioanalytical Chemistry, 2012, 404, 3101-3109.	3.7	163
35	Alteration of the Intestinal Environment by Lubiprostone Is Associated with Amelioration of Adenine-Induced CKD. Journal of the American Society of Nephrology: JASN, 2015, 26, 1787-1794.	6.1	162
36	A systematic survey of in vivo obligate chaperonin-dependent substrates. EMBO Journal, 2010, 29, 1552-1564.	7.8	156

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37	Identification of salivary metabolomic biomarkers for oral cancer screening. Scientific Reports, 2016, 6, 31520.	3.3	147
38	Simultaneous determination of inorganic anions, organic acids, amino acids and carbohydrates by capillary electrophoresis. Journal of Chromatography A, 1999, 837, 231-239.	3.7	143
39	Systematic phenome analysis of Escherichia coli multipleâ€knockout mutants reveals hidden reactions in central carbon metabolism. Molecular Systems Biology, 2009, 5, 306.	7.2	143
40	Autophagy regulates lipid metabolism through selective turnover of NCoR1. Nature Communications, 2019, 10, 1567.	12.8	143
41	MathDAMP: a package for differential analysis of metabolite profiles. BMC Bioinformatics, 2006, 7, 530.	2.6	142
42	Pressure-Assisted Capillary Electrophoresis Electrospray Ionization Mass Spectrometry for Analysis of Multivalent Anions. Analytical Chemistry, 2002, 74, 6224-6229.	6.5	141
43	Capillary electrophoresis method for the analysis of inorganic anions, organic acids, amino acids, nucleotides, carbohydrates and other anionic compounds. Electrophoresis, 2001, 22, 3418-3425.	2.4	140
44	The emerging role of fumarate as an oncometabolite. Frontiers in Oncology, 2012, 2, 85.	2.8	140
45	Inhibition of Mitochondrial Aconitase by Succination in Fumarate Hydratase Deficiency. Cell Reports, 2013, 3, 689-700.	6.4	137
46	Qualitative and quantitative analysis of amino acids by capillary electrophoresis-electrospray ionization-tandem mass spectrometry. Electrophoresis, 2004, 25, 1964-1972.	2.4	128
47	Metabolomic profiling of lung and prostate tumor tissues by capillary electrophoresis time-of-flight mass spectrometry. Metabolomics, 2013, 9, 444-453.	3.0	128
48	Metabolomic profiling of uremic solutes in CKD patients. Hypertension Research, 2010, 33, 944-952.	2.7	126
49	SLCO4C1 Transporter Eliminates Uremic Toxins and Attenuates Hypertension and Renal Inflammation. Journal of the American Society of Nephrology: JASN, 2009, 20, 2546-2555.	6.1	124
50	Expression of Idh1R132H in the Murine Subventricular Zone Stem Cell Niche Recapitulates Features of Early Gliomagenesis. Cancer Cell, 2016, 30, 578-594.	16.8	122
51	PKM1 Confers Metabolic Advantages and Promotes Cell-Autonomous Tumor Cell Growth. Cancer Cell, 2018, 33, 355-367.e7.	16.8	121
52	mTORC1 is essential for leukemia propagation but not stem cell self-renewal. Journal of Clinical Investigation, 2012, 122, 2114-2129.	8.2	117
53	A Transient Rise in Free Mg2+ Ions Released from ATP-Mg Hydrolysis Contributes to Mitotic Chromosome Condensation. Current Biology, 2018, 28, 444-451.e6.	3.9	116
54	Capillary electrophoretic determination of inorganic and organic anions using 2,6-pyridinedicarboxylic acid: effect of electrolyte's complexing ability. Journal of Chromatography A, 1997, 767, 223-230.	3.7	112

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55	Metabolomic alterations in human cancer cells by vitamin C-induced oxidative stress. Scientific Reports, 2015, 5, 13896.	3.3	109
56	Mitochondrial Mg2+ homeostasis decides cellular energy metabolism and vulnerability to stress. Scientific Reports, 2016, 6, 30027.	3.3	107
57	IMP dehydrogenase-2 drives aberrant nucleolar activity and promotes tumorigenesis in glioblastoma. Nature Cell Biology, 2019, 21, 1003-1014.	10.3	107
58	Capillary electrophoresisâ€mass spectrometryâ€based metabolome analysis of serum and saliva from neurodegenerative dementia patients. Electrophoresis, 2013, 34, 2865-2872.	2.4	99
59	Index markers of chronic fatigue syndrome with dysfunction of TCA and urea cycles. Scientific Reports, 2016, 6, 34990.	3.3	97
60	Cystathionine Î²-synthase as a carbon monoxide-sensitive regulator of bile excretion. Hepatology, 2009, 49, 141-150.	7.3	96
61	Quantitative metabolome analysis profiles activation of glutaminolysis in glioma with IDH1 mutation. Tumor Biology, 2014, 35, 5911-5920.	1.8	95
62	¹³Câ€metabolic flux analysis for batch culture of Escherichia coli and its pyk and pgi gene knockout mutants based on mass isotopomer distribution of intracellular metabolites. Biotechnology Progress, 2010, 26, 975-992.	2.6	92
63	p38Î± Activates Purine Metabolism to Initiate Hematopoietic Stem/Progenitor Cell Cycling in Response to Stress. Cell Stem Cell, 2016, 19, 192-204.	11.1	92
64	Conformational Change in Transfer RNA Is an Early Indicator of Acute Cellular Damage. Journal of the American Society of Nephrology: JASN, 2014, 25, 2316-2326.	6.1	88
65	Analysis of nucleotides by pressure-assisted capillary electrophoresisâ€“mass spectrometry using silanol mask technique. Journal of Chromatography A, 2007, 1159, 125-133.	3.7	86
66	Simultaneous Determination of Monosaccharides in Glycoproteins by Capillary Electrophoresis. Analytical Biochemistry, 1998, 261, 73-78.	2.4	84
67	Hepatitis C Virus Infection Promotes Hepatic Gluconeogenesis through an NS5A-Mediated, FoxO1-Dependent Pathway. Journal of Virology, 2011, 85, 8556-8568.	3.4	84
68	Canagliflozin reduces plasma uremic toxins and alters the intestinal microbiota composition in a chronic kidney disease mouse model. American Journal of Physiology - Renal Physiology, 2018, 315, F824-F833.	2.7	84
69	Roles of Hemoglobin Allostery in Hypoxia-induced Metabolic Alterations in Erythrocytes. Journal of Biological Chemistry, 2007, 282, 10731-10741.	3.4	83
70	The selective control of glycolysis, gluconeogenesis and glycogenesis by temporal insulin patterns. Molecular Systems Biology, 2013, 9, 664.	7.2	83
71	Metabolomic profiling reveals novel biomarkers of alcohol intake and alcohol-induced liver injury in community-dwelling men. Environmental Health and Preventive Medicine, 2016, 21, 18-26.	3.4	83
72	Reconstruction of Insulin Signal Flow from Phosphoproteome and Metabolome Data. Cell Reports, 2014, 8, 1171-1183.	6.4	82

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73	Non-targeted metabolite profiling in activated macrophage secretion. Metabolomics, 2012, 8, 624-633.	3.0	80
74	Global metabolic network reorganization by adaptive mutations allows fast growth of Escherichia coli on glycerol. Nature Communications, 2014, 5, 3233.	12.8	80
75	A Role for Cytosolic Fumarate Hydratase in Urea Cycle Metabolism and Renal Neoplasia. Cell Reports, 2013, 3, 1440-1448.	6.4	78
76	Metabolome analysis based on capillary electrophoresis-mass spectrometry. TrAC - Trends in Analytical Chemistry, 2014, 61, 215-222.	11.4	77
77	Self-Enhancement of Hepatitis C Virus Replication by Promotion of Specific Sphingolipid Biosynthesis. PLoS Pathogens, 2012, 8, e1002860.	4.7	76
78	Cancer stem-like properties and gefitinib resistance are dependent on purine synthetic metabolism mediated by the mitochondrial enzyme MTHFD2. Oncogene, 2019, 38, 2464-2481.	5.9	75
79	Simultaneous determination of inorganic anions, organic acids and metal cations by capillary electrophoresis. Journal of Chromatography A, 1999, 834, 65-71.	3.7	73
80	Metabolomics Approach for Enzyme Discovery. Journal of Proteome Research, 2006, 5, 1979-1987.	3.7	73
81	Metabolic and morphological changes of an oil accumulating trebouxiophycean alga in nitrogen-deficient conditions. Metabolomics, 2013, 9, 178-187.	3.0	72
82	SRSF3, a Splicer of the PKM Gene, Regulates Cell Growth and Maintenance of Cancer-Specific Energy Metabolism in Colon Cancer Cells. International Journal of Molecular Sciences, 2018, 19, 3012.	4.1	72
83	Hypoxia induces a lipogenic cancer cell phenotype via HIF1Î±-dependent and -independent pathways. Oncotarget, 2015, 6, 1920-1941.	1.8	72
84	Physiological and environmental parameters associated with mass spectrometry-based salivary metabolomic profiles. Metabolomics, 2013, 9, 454-463.	3.0	70
85	Prediction of metabolite identity from accurate mass, migration time prediction and isotopic pattern information in CEâ€TOFMS data. Electrophoresis, 2010, 31, 2311-2318.	2.4	69
86	Necrosis-Driven Systemic Immune Response Alters SAM Metabolism through the FOXO-GNMT Axis. Cell Reports, 2014, 7, 821-833.	6.4	69
87	Effects of processing and storage conditions on charged metabolomic profiles in blood. Electrophoresis, 2015, 36, 2148-2155.	2.4	68
88	Evaluation of Metabolic Alteration in Transgenic Rice Overexpressing Dihydroflavonol-4-reductase. Annals of Botany, 2006, 98, 819-825.	2.9	67
89	Sheathless capillary electrophoresis-mass spectrometry with a high-sensitivity porous sprayer for cationic metabolome analysis. Analyst, The, 2012, 137, 5026.	3.5	67
90	Metabolic Profiling of the Protozoan Parasite Entamoeba invadens Revealed Activation of Unpredicted Pathway during Encystation. PLoS ONE, 2012, 7, e37740.	2.5	67

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91	Direct measurement of isotopomer of intracellular metabolites using capillary electrophoresis time-of-flight mass spectrometry for efficient metabolic flux analysis. Journal of Chromatography A, 2007, 1159, 134-141.	3.7	66
92	Cystathionine Is a Novel Substrate of Cystine/Glutamate Transporter. Journal of Biological Chemistry, 2015, 290, 8778-8788.	3.4	65
93	Correlation between Sensory Evaluation Scores of Japanese Sake and Metabolome Profiles. Journal of Agricultural and Food Chemistry, 2010, 58, 374-383.	5.2	64
94	Capillary Electrophoresis-Mass Spectrometry for Metabolomics. Methods in Molecular Biology, 2007, 358, 129-137.	0.9	63
95	Metabolomic Profiles and Sensory Attributes of Edamame under Various Storage Duration and Temperature Conditions. Journal of Agricultural and Food Chemistry, 2010, 58, 8418-8425.	5.2	62
96	Degradation of ppGpp by Nudix Pyrophosphatase Modulates the Transition of Growth Phase in the Bacterium Thermus thermophilus. Journal of Biological Chemistry, 2009, 284, 15549-15556.	3.4	61
97	MMMDB: Mouse Multiple Tissue Metabolome Database. Nucleic Acids Research, 2012, 40, D809-D814.	14.5	60
98	Global metabolomic analysis of heart tissue in a hamster model for dilated cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2013, 59, 76-85.	1.9	60
99	HIF-1Î± is necessary to support gluconeogenesis during liver regeneration. Biochemical and Biophysical Research Communications, 2009, 387, 789-794.	2.1	59
100	Distinct requirements for energy metabolism in mouse primordial germ cells and their reprogramming to embryonic germ cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8289-8294.	7.1	59
101	Elevated Polyamines in Saliva of Pancreatic Cancer. Cancers, 2018, 10, 43.	3.7	59
102	Gut microbiota depletion by chronic antibiotic treatment alters the sleep/wake architecture and sleep EEG power spectra in mice. Scientific Reports, 2020, 10, 19554.	3.3	59
103	Development of Bottom-Fermenting Saccharomyces Strains That Produce High SO ₂ Levels, Using Integrated Metabolome and Transcriptome Analysis. Applied and Environmental Microbiology, 2008, 74, 2787-2796.	3.1	58
104	Metabolite Profiling Reveals YihU as a Novel Hydroxybutyrate Dehydrogenase for Alternative Succinic Semialdehyde Metabolism in Escherichia coli. Journal of Biological Chemistry, 2009, 284, 16442-16451.	3.4	58
105	Functional Expression of Carnitine/Organic Cation Transporter OCTN1/SLC22A4 in Mouse Small Intestine and Liver. Drug Metabolism and Disposition, 2010, 38, 1665-1672.	3.3	58
106	Changes in the Charged Metabolite and Sugar Profiles of Pasteurized and Unpasteurized Japanese Sake with Storage. Journal of Agricultural and Food Chemistry, 2012, 60, 2586-2593.	5.2	58
107	Alteration of metabolomic profiles by titanium dioxide nanoparticles in human gingivitis model. Biomaterials, 2015, 57, 33-40.	11.4	58
108	Reliability of plasma polar metabolite concentrations in a large-scale cohort study using capillary electrophoresis-mass spectrometry. PLoS ONE, 2018, 13, e0191230.	2.5	58

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109	Fumarate Hydratase Deletion in Pancreatic Î² Cells Leads to Progressive Diabetes. Cell Reports, 2017, 20, 3135-3148.	6.4	57
110	Time-resolved metabolomics reveals metabolic modulation in rice foliage. BMC Systems Biology, 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. Analytical Chemistry, 2005, 77, 78-84.	6.5	55
112	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. Cell Reports, 2017, 21, 3536-3547.	6.4	55
113	Prediction of Liquid Chromatographic Retention Times of Peptides Generated by Protease Digestion of theEscherichia coliProteome Using Artificial Neural Networks. Journal of Proteome Research, 2006, 5, 3312-3317.	3.7	54
114	Conductivity detection in capillary zone electrophoresis: Inspection by PeakMaster. Electrophoresis, 2005, 26, 1948-1953.	2.4	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 Entamoeba histolytica. Journal of Biological Chemistry, 2010, 285, 26889-26899.	3.4	53
116	Inhibition of ATP citrate lyase induces triglyceride accumulation with altered fatty acid composition in cancer cells. International Journal of Cancer, 2014, 135, 37-47.	5.1	52
117	Microhomology-assisted scarless genome editing in human iPSCs. Nature Communications, 2018, 9, 939.	12.8	52
118	Differential metabolomics software for capillary electrophoresis-mass spectrometry data analysis. Metabolomics, 2010, 6, 27-41.	3.0	51
119	Dramatic Increase in Glycerol Biosynthesis upon Oxidative Stress in the Anaerobic Protozoan Parasite Entamoeba histolytica. PLoS Neglected Tropical Diseases, 2012, 6, e1831.	3.0	51
120	Identification of biomarkers for development of end-stage kidney disease in chronic kidney disease by metabolomic profiling. Scientific Reports, 2016, 6, 26138.	3.3	50
121	<scp>ACSL</scp>3 promotes intratumoral steroidogenesis in prostate cancer cells. Cancer Science, 2017, 108, 2011-2021.	3.9	50
122	Metabolic Profiling of Total Physical Activity and Sedentary Behavior in Community-Dwelling Men. PLoS ONE, 2016, 11, e0164877.	2.5	50
123	L-Carnitine prevents the development of ventricular fibrosis and heart failure with preserved ejection fraction in hypertensive heart disease. Journal of Hypertension, 2012, 30, 1834-1844.	0.5	49
124	Antioxidant role of autophagy in maintaining the integrity of glomerular capillaries. Autophagy, 2018, 14, 53-65.	9.1	49
125	IDH2 and NPM1 Mutations Cooperate to Activate Hoxa9/Meis1 and Hypoxia Pathways in Acute Myeloid Leukemia. Cancer Research, 2015, 75, 2005-2016.	0.9	48
126	Selective inhibition of mutant IDH1 by DS-1001b ameliorates aberrant histone modifications and impairs tumor activity in chondrosarcoma. Oncogene, 2019, 38, 6835-6849.	5.9	48

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127	Direct chiral resolution of lactic acid in food products by capillary electrophoresis. Journal of Chromatography A, 2000, 875, 371-377.	3.7	47
128	Smad2/3 Proteins Are Required for Immobilization-induced Skeletal Muscle Atrophy. Journal of Biological Chemistry, 2016, 291, 12184-12194.	3.4	47
129	Remodelling of microRNAs in colorectal cancer by hypoxia alters metabolism profiles and 5-fluorouracil resistance. Human Molecular Genetics, 2017, 26, 1552-1564.	2.9	47
130	In silico modeling and metabolome analysis of long-stored erythrocytes to improve blood storage methods. Journal of Biotechnology, 2009, 144, 212-223.	3.8	46
131	Autophagy protects kidney proximal tubule epithelial cells from mitochondrial metabolic stress. Autophagy, 2013, 9, 1876-1886.	9.1	46
132	Metabolomics Platform with Capillary Electrophoresis Coupled with High-Resolution Mass Spectrometry for Plasma Analysis. Analytical Chemistry, 2019, 91, 1295-1301.	6.5	46
133	Inhibition of ATP Citrate Lyase Induces an Anticancer Effect via Reactive Oxygen Species. American Journal of Pathology, 2013, 182, 1800-1810.	3.8	44
134	Intensive DNA Replication and Metabolism during the Lag Phase in Cyanobacteria. PLoS ONE, 2015, 10, e0136800.	2.5	44
135	GLUT6 is a lysosomal transporter that is regulated by inflammatory stimuli and modulates glycolysis in macrophages. FEBS Letters, 2019, 593, 195-208.	2.8	44
136	Lactate production is a prioritized feature of adipocyte metabolism. Journal of Biological Chemistry, 2020, 295, 83-98.	3.4	44
137	Metabolome Analysis Revealed Increase in S-Methylcysteine and Phosphatidylisopropanolamine Synthesis upon l-Cysteine Deprivation in the Anaerobic Protozoan Parasite Entamoeba histolytica. Journal of Biological Chemistry, 2010, 285, 39160-39170.	3.4	43
138	Prolyl hydroxylase domain enzymes: important regulators of cancer metabolism. Hypoxia (Auckland, N) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.9	43
139	Decreased miR122 in hepatocellular carcinoma leads to chemoresistance with increased arginine. Oncotarget, 2015, 6, 8339-8352.	1.8	43
140	Thymidine Catabolism as a Metabolic Strategy for Cancer Survival. Cell Reports, 2017, 19, 1313-1321.	6.4	43
141	The Consumption of Bicarbonate-Rich Mineral Water Improves Glycemic Control. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-10.	1.2	42
142	Urinary Polyamine Biomarker Panels with Machine-Learning Differentiated Colorectal Cancers, Benign Disease, and Healthy Controls. International Journal of Molecular Sciences, 2018, 19, 756.	4.1	42
143	A Metabologenomic Approach Reveals Changes in the Intestinal Environment of Mice Fed on American Diet. International Journal of Molecular Sciences, 2018, 19, 4079.	4.1	41
144	MITF controls the TCA cycle to modulate the melanoma hypoxia response. Pigment Cell and Melanoma Research, 2019, 32, 792-808.	3.3	41

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145	Gamma-Aminobutyric Acid Signaling in Brown Adipose Tissue Promotes Systemic Metabolic Derangement in Obesity. Cell Reports, 2018, 24, 2827-2837.e5.	6.4	40
146	Metabolomic Identification of the Target of the Filopodia Protrusion Inhibitor Glucopiericidin A. Chemistry and Biology, 2010, 17, 989-998.	6.0	39
147	Metabolomic study of Chilean biomining bacteria Acidithiobacillus ferrooxidans strain Wenelen and Acidithiobacillus thiooxidans strain Licanantay. Metabolomics, 2013, 9, 247-257.	3.0	39
148	Potential Biomarkers of Fatigue Identified by Plasma Metabolome Analysis in Rats. PLoS ONE, 2015, 10, e0120106.	2.5	39
149	Carbonic anhydrase 2 (CAII) supports tumor blood endothelial cell survival under lactic acidosis in the tumor microenvironment. Cell Communication and Signaling, 2019, 17, 169.	6.5	39
150	Amino acid transporters as emerging therapeutic targets in cancer. Cancer Science, 2021, 112, 2958-2965.	3.9	39
151	Analysis of halides, oxyhalides and metal oxoacids by capillary electrophoresis with suppressed electroosmotic flow. Journal of Chromatography A, 1995, 718, 421-428.	3.7	38
152	Cytotoxic effect of amide derivatives of trifluoromethionine against the enteric protozoan parasite Entamoeba histolytica. International Journal of Antimicrobial Agents, 2010, 35, 56-61.	2.5	38
153	A serum metabolomics-based profile in low bone mineral density postmenopausal women. Bone, 2017, 95, 1-4.	2.9	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. Electrophoresis, 2001, 22, 3286-3290.	2.4	37
155	Disruption of HIF-1Î± in hepatocytes impairs glucose metabolism in diet-induced obesity mice. Biochemical and Biophysical Research Communications, 2011, 415, 445-449.	2.1	37
156	Ketone body 3â€hydroxybutyrate mimics calorie restriction via the Nrf2 activator, fumarate, in the retina. Aging Cell, 2018, 17, e12699.	6.7	37
157	Rescue of anaemia and autoimmune responses in SOD1-deficient mice by transgenic expression of human SOD1 in erythrocytes. Biochemical Journal, 2009, 422, 313-320.	3.7	36
158	Trans-omic Analysis Reveals Selective Responses to Induced and Basal Insulin across Signaling, Transcriptional, and Metabolic Networks. IScience, 2018, 7, 212-229.	4.1	36
159	Effect of masticatory stimulation on the quantity and quality of saliva and the salivary metabolomic profile. PLoS ONE, 2017, 12, e0183109.	2.5	36
160	Analysis of liver metabolism in a rat model of heart failure. International Journal of Cardiology, 2012, 161, 130-136.	1.7	35
161	Stimulating S -adenosyl- <scp>l</scp> -methionine synthesis extends lifespan via activation of AMPK. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11913-11918.	7.1	35
162	Sodium chloride promotes tissue inflammation via osmotic stimuli in subtotal-nephrectomized mice. Laboratory Investigation, 2017, 97, 432-446.	3.7	35

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163	The guanylate cyclase C agonist linaclotide ameliorates the gutâ€“cardioâ€“renal axis in an adenine-induced mouse model of chronic kidney disease. Nephrology Dialysis Transplantation, 2020, 35, 250-264.	0.7	35
164	Transcriptional Regulation of Organic Anion Transporting Polypeptide SLCO4C1 as a New Therapeutic Modality to Prevent Chronic Kidney Disease. Journal of Pharmaceutical Sciences, 2011, 100, 3696-3707.	3.3	34
165	In vivo role of aldehyde reductase. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1787-1796.	2.4	34
166	Disturbed biopterin and folate metabolism in the Qdprâ€deficient mouse. FEBS Letters, 2014, 588, 3924-3931.	2.8	34
167	Profiling of plasma metabolites in postmenopausal women with metabolic syndrome. Menopause, 2016, 23, 749-758.	2.0	34
168	Dynamic Simulation and Metabolome Analysis of Long-Term Erythrocyte Storage in Adenineâ€“Guanosine Solution. PLoS ONE, 2013, 8, e71060.	2.5	34
169	Hypotaurine is an Energy-Saving Hepatoprotective Compound against Ischemia-Reperfusion Injury of the Rat Liver. Journal of Clinical Biochemistry and Nutrition, 2010, 46, 126-134.	1.4	34
170	Mass Spectrometric Analysis of<scp>l</scp>-Cysteine Metabolism: Physiological Role and Fate of<scp>l</scp>-Cysteine in the Enteric Protozoan Parasite Entamoeba histolytica. MBio, 2014, 5, e01995.	4.1	33
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