Mark P Hodson

List of Publications by Year
in descending order

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64	2,344	236612	233125
papers	citations	25 h-index	45 g-index

68	68	68	4014
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8372-E8381.	3.3	361
2	Low carbon fuels and commodity chemicals from waste gases â€“ systematic approach to understand energy metabolism in a model acetogen. Green Chemistry, 2016, 18, 3020-3028.	4.6	143
3	Flux balance analysis of CHO cells before and after a metabolic switch from lactate production to consumption. Biotechnology and Bioengineering, 2013, 110, 660-666.	1.7	106
4	A Multi-Omics Analysis of Recombinant Protein Production in Hek293 Cells. PLoS ONE, 2012, 7, e43394.	1.1	99
5	Metabolite profiling of CHO cells with different growth characteristics. Biotechnology and Bioengineering, 2012, 109, 1404-1414.	1.7	98
6	Arginine deiminase pathway provides ATP and boosts growth of the gas-fermenting acetogen Clostridium autoethanogenum. Metabolic Engineering, 2017, 41, 202-211.	3.6	96
7	A squalene synthase protein degradation method for improved sesquiterpene production in Saccharomyces cerevisiae. Metabolic Engineering, 2017, 39, 209-219.	3.6	91
8	Potential urinary and plasma biomarkers of peroxisome proliferation in the rat: identification ofN-methylnicotinamide andN-methyl-4-pyridone-3-carboxamide by1H nuclear magnetic resonance and high performance liquid chromatography. Biomarkers, 2003, 8, 240-271.	0.9	71
9	The enhanced value of combining conventional and â€œomicsâ€•analyses in early assessment of drug-induced hepatobiliary injury. Toxicology and Applied Pharmacology, 2011, 252, 97-111.	1.3	58
10	Systems-level engineering and characterisation of Clostridium autoethanogenum through heterologous production of poly-3-hydroxybutyrate (PHB). Metabolic Engineering, 2019, 53, 14-23.	3.6	57
11	A novel anticonvulsant mechanism via inhibition of complement receptor C5ar1 in murine epilepsy models. Neurobiology of Disease, 2015, 76, 87-97.	2.1	55
12	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. Cell Reports, 2017, 21, 3536-3547.	2.9	55
13	Class IIa Histone Deacetylases Drive Toll-like Receptor-Inducible Glycolysis and Macrophage Inflammatory Responses via Pyruvate Kinase M2. Cell Reports, 2020, 30, 2712-2728.e8.	2.9	51
14	A gender-specific discriminator in Sprague â€“ Dawley rat urine: The deployment of a metabolic profiling strategy for biomarker discovery and identification. Analytical Biochemistry, 2007, 362, 182-192.	1.1	46
15	LC-MS-Based Metabolomics Study of Marine Bacterial Secondary Metabolite and Antibiotic Production in Salinispora arenicola. Marine Drugs, 2015, 13, 249-266.	2.2	45
16	Tryptophan?NAD+ pathway metabolites as putative biomarkers and predictors of peroxisome proliferation. Archives of Toxicology, 2005, 79, 208-223.	1.9	44
17	Alterations in Cytosolic and Mitochondrial [U-¹³C]Glucose Metabolism in a Chronic Epilepsy Mouse Model. ENeuro, 2017, 4, ENEURO.0341-16.2017.	0.9	39
18	Development of a multivariate statistical model to predict peroxisome proliferation in the rat, based on urinary1H-NMR spectral patterns. Biomarkers, 2004, 9, 364-385.	0.9	37

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19	Chemical Characterization and in Vitro Cytotoxicity on Squamous Cell Carcinoma Cells of Carica Papaya Leaf Extracts. Toxins, 2016, 8, 7.	1.5	37
20	Improved performance of Pseudomonas putida in a bioelectrochemical system through overexpression of periplasmic glucose dehydrogenase. Biotechnology and Bioengineering, 2018, 115, 145-155.	1.7	37
21	Targeted mitochondrial therapy using MitoQ shows equivalent renoprotection to angiotensin converting enzyme inhibition but no combined synergy in diabetes. Scientific Reports, 2017, 7, 15190.	1.6	34
22	Discovering the Recondite Secondary Metabolome Spectrum of Salinispora Species: A Study of Inter-Species Diversity. PLoS ONE, 2014, 9, e91488.	1.1	33
23	KrÃ¼ppel-like factor 1 is a core cardiomyogenic trigger in zebrafish. Science, 2021, 372, 201-205.	6.0	32
24	Traditional Aboriginal Preparation Alters the Chemical Profile of Carica papaya Leaves and Impacts on Cytotoxicity towards Human Squamous Cell Carcinoma. PLoS ONE, 2016, 11, e0147956.	1.1	31
25	Alterations of Hippocampal Glucose Metabolism by Even versus Uneven Medium Chain Triglycerides. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 153-160.	2.4	27
26	An approach for the development and selection of chromatographic methods for high-throughput metabolomic screening of urine by ultra pressure LC-ESI-ToF-MS. Metabolomics, 2009, 5, 166-182.	1.4	26
27	Systems analysis of methylerythritol-phosphate pathway flux in E. coli: insights into the role of oxidative stress and the validity of lycopene as an isoprenoid reporter metabolite. Microbial Cell Factories, 2015, 14, 193.	1.9	24
28	Metabolic Reconstruction of Setaria italica: A Systems Biology Approach for Integrating Tissue-Specific Omics and Pathway Analysis of Bioenergy Grasses. Frontiers in Plant Science, 2016, 7, 1138.	1.7	24
29	Multi-platform investigation of the metabolome in a leptin receptor defective murine model of type 2 diabetes. Molecular BioSystems, 2008, 4, 1015.	2.9	22
30	The effect of weightbearing and limb load cycling on equine lamellar perfusion and energy metabolism measured using tissue microdialysis. Equine Veterinary Journal, 2016, 48, 114-119.	0.9	22
31	Increased liver AGEs induce hepatic injury mediated through an OST48 pathway. Scientific Reports, 2017, 7, 12292.	1.6	22
32	Impaired Pentose Phosphate Pathway in the Spinal Cord of the hSOD1G93A Mouse Model of Amyotrophic Lateral Sclerosis. Molecular Neurobiology, 2019, 56, 5844-5855.	1.9	22
33	The use of an acetoacetylâ€Co<scp>A</scp> synthase in place of a Î²â€ketothiolase enhances polyâ€3â€hydroxybutyrate production in sugarcane mesophyll cells. Plant Biotechnology Journal, 2015, 13, 700-707.	4.1	21
34	Microbial biotransformation of polyphenols during in vitro colonic fermentation of masticated mango and banana. Food Chemistry, 2016, 207, 214-222.	4.2	21
35	Production of N -acyl homoserine lactones by the sponge-associated marine actinobacteria Salinispora arenicola and Salinispora pacifica. FEMS Microbiology Letters, 2017, 364, fnx002.	0.7	21
36	Effects of salinity on antibiotic production in sponge-derived Salinispora actinobacteria. Journal of Applied Microbiology, 2014, 117, 109-125.	1.4	19

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37	Persistently Altered Metabolic Phenotype following Perinatal Excitotoxic Brain Injury. Developmental Neuroscience, 2017, 39, 182-191.	1.0	19
38	Adaptation of hydroxymethylbutenyl diphosphate reductase enables volatile isoprenoid production. ELife, 2020, 9, .	2.8	19
39	Simultaneous Determination of Sugars, Carboxylates, Alcohols and Aldehydes from Fermentations by High Performance Liquid Chromatography. Fermentation, 2016, 2, 6.	1.4	17
40	Systems biology and metabolic modelling unveils limitations to polyhydroxybutyrate accumulation in sugarcane leaves; lessons for <scp>C</scp>₄ engineering. Plant Biotechnology Journal, 2016, 14, 567-580.	4.1	17
41	Systems-based approaches enable identification of gene targets which improve the flavour profile of low-ethanol wine yeast strains. Metabolic Engineering, 2018, 49, 178-191.	3.6	16
42	Triheptanoin alters [U-¹³C₆]-glucose incorporation into glycolytic intermediates and increases TCA cycling by normalizing the activities of pyruvate dehydrogenase and oxoglutarate dehydrogenase in a chronic epilepsy mouse model. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 678-691.	2.4	16
43	Inflammatory-Induced Hibernation in the Fetus: Priming of Fetal Sheep Metabolism Correlates with Developmental Brain Injury. PLoS ONE, 2011, 6, e29503.	1.1	16
44	Increased sensitivity to tryptophan bioavailability is a positive adaptation by the human strains of <scp>C</scp>hlamydia pneumoniae. Molecular Microbiology, 2014, 93, 797-813.	1.2	15
45	Tetanus toxin production is triggered by the transition from amino acid consumption to peptides. Anaerobe, 2016, 41, 113-124.	1.0	13
46	Microdialysis measurements of lamellar perfusion and energy metabolism during the development of laminitis in the oligofructose model. Equine Veterinary Journal, 2016, 48, 246-252.	0.9	13
47	Quantitative analysis of aromatics for synthetic biology using liquid chromatography. Biotechnology Journal, 2017, 12, 1600269.	1.8	13
48	Biomolecular changes that occur in the antennal gland of the giant freshwater prawn (Machrobrachium rosenbergii). PLoS ONE, 2017, 12, e0177064.	1.1	13
49	Physico-chemical and biochemical properties of low fat Cheddar cheese made from micron to nano sized milk fat emulsions. Journal of Food Engineering, 2019, 242, 94-105.	2.7	13
50	A liquid chromatographyâ€“tandem mass spectrometry-based investigation of the lamellar interstitial metabolome in healthy horses and during experimental laminitis induction. Veterinary Journal, 2015, 206, 161-169.	0.6	12
51	Metabolites Identified during Varied Doses of Aspergillus Species in Zea mays Grains, and Their Correlation with Aflatoxin Levels. Toxins, 2018, 10, 187.	1.5	11
52	Two Peptides, Cycloaspeptide A and Nazumamide A from a Sponge Associated Marine Actinobacterium Salinispora sp. Natural Product Communications, 2014, 9, 1934578X1400900.	0.2	10
53	Chronic High-Fat Diet Induces Early Barrettâ€™s Esophagus in Mice through Lipidome Remodeling. Biomolecules, 2020, 10, 776.	1.8	10
54	An NMR-based metabolic profiling study of inflammatory pain using the rat FCA model. Metabolomics, 2007, 3, 29-39.	1.4	9

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55	Bisphosphonate drugs have actions in the lung and inhibit the mevalonate pathway in alveolar macrophages. ELife, 2021, 10, .	2.8	9
56	Bacterial production of the fungusâ€derived cholesterolâ€lowering agent mevinolin. Biomedical Chromatography, 2014, 28, 1163-1166.	0.8	8
57	Protocols for the Production and Analysis of Isoprenoids in Bacteria and Yeast. Springer Protocols, 2015, , 23-52.	0.1	8
58	Characterization and validation of a preventative therapy for hypertrophic cardiomyopathy in a murine model of the disease. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23113-23124.	3.3	7
59	Simultaneous quantification of 26 NAD-related metabolites in plasma, blood, and liver tissue using UHPLC-MS/MS. Analytical Biochemistry, 2021, 633, 114409.	1.1	7
60	Two peptides, cycloaspeptide A and nazumamide A from a sponge associated marine actinobacterium Salinispora sp. Natural Product Communications, 2014, 9, 545-6.	0.2	7
61	Elevation of fatty acid desaturaseÂ2 in esophageal adenocarcinoma increases polyunsaturated lipids and may exacerbate bile acidâ€induced DNA damage. Clinical and Translational Medicine, 2022, 12, e810.	1.7	6
62	Quantitative analysis of tetrahydrofolate metabolites from clostridium autoethanogenum. Metabolomics, 2018, 14, 35.	1.4	5
63	Analysing intracellular isoprenoid metabolites in diverse prokaryotic and eukaryotic microbes. Methods in Enzymology, 2022, , .	0.4	1
64	The Developmental Stages of Sugarcane Stalk are Equivalent between Plants of Different Chronological Ages. Tropical Plant Biology, 2020, 13, 136-149.	1.0	0