

Carole L Linster

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,201
citations

304368

22
h-index

288905

40
g-index

42
all docs

42
docs citations

42
times ranked

5499
citing authors

#	ARTICLE	IF	CITATIONS
1	Immune-responsive gene 1 protein links metabolism to immunity by catalyzing itaconic acid production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7820-7825.	3.3	765
2	Vitaminâ€fC. <i>FEBS Journal</i> , 2007, 274, 1-22.	2.2	604
3	Metabolite damage and its repair or pre-emption. <i>Nature Chemical Biology</i> , 2013, 9, 72-80.	3.9	248
4	l-Ascorbate biosynthesis in higher plants: the role of VTC2. <i>Trends in Plant Science</i> , 2008, 13, 567-573.	4.3	178
5	Arabidopsis VTC2 Encodes a GDP-l-Galactose Phosphorylase, the Last Unknown Enzyme in the Smirnoff-Wheeler Pathway to Ascorbic Acid in Plants. <i>Journal of Biological Chemistry</i> , 2007, 282, 18879-18885.	1.6	164
6	Millifluidic culture improves human midbrain organoid vitality and differentiation. <i>Lab on A Chip</i> , 2018, 18, 3172-3183.	3.1	108
7	Extremely Conserved ATP- or ADP-dependent Enzymatic System for Nicotinamide Nucleotide Repair. <i>Journal of Biological Chemistry</i> , 2011, 286, 41246-41252.	1.6	100
8	Failure to eliminate a phosphorylated glucose analog leads to neutropenia in patients with G6PT and G6PC3 deficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1241-1250.	3.3	98
9	Impact of Oxidative Stress on Ascorbate Biosynthesis in <i>Chlamydomonas</i> via Regulation of the VTC2 Gene Encoding a GDP-l-galactose Phosphorylase. <i>Journal of Biological Chemistry</i> , 2012, 287, 14234-14245.	1.6	93
10	A conserved phosphatase destroys toxic glycolytic side products in mammals and yeast. <i>Nature Chemical Biology</i> , 2016, 12, 601-607.	3.9	88
11	Metabolite proofreading, a neglected aspect of intermediary metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2013, 36, 427-434.	1.7	69
12	Confronting the catalytic dark matter encoded by sequenced genomes. <i>Nucleic Acids Research</i> , 2017, 45, 11495-11514.	6.5	59
13	Protocols and Programs for High-Throughput Growth and Aging Phenotyping in Yeast. <i>PLoS ONE</i> , 2015, 10, e0119807.	1.1	57
14	<i>Saccharomyces cerevisiae</i> Forms d-2-Hydroxyglutarate and Couples Its Degradation to d-Lactate Formation via a Cytosolic Transhydrogenase. <i>Journal of Biological Chemistry</i> , 2016, 291, 6036-6058.	1.6	56
15	NAD(P)HX dehydratase (NAXD) deficiency: a novel neurodegenerative disorder exacerbated by febrile illnesses. <i>Brain</i> , 2019, 142, 50-58.	3.7	51
16	A Second GDP-l-galactose Phosphorylase in Arabidopsis en Route to Vitamin C. <i>Journal of Biological Chemistry</i> , 2008, 283, 18483-18492.	1.6	49
17	Ethylmalonyl-CoA Decarboxylase, a New Enzyme Involved in Metabolite Proofreading. <i>Journal of Biological Chemistry</i> , 2011, 286, 42992-43003.	1.6	46
18	Occurrence and subcellular distribution of the NAD(P)HX repair system in mammals. <i>Biochemical Journal</i> , 2014, 460, 49-60.	1.7	43

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19	Nit1 is a metabolite repair enzyme that hydrolyzes deaminated glutathione. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3233-E3242.	3.3	32
20	The Role of DJ-1 in Cellular Metabolism and Pathophysiological Implications for Parkinson's Disease. Cells, 2021, 10, 347.	1.8	31
21	<scp>NAD</scp>(P)<scp>HX</scp> repair deficiency causes central metabolic perturbations in yeast and human cells. FEBS Journal, 2018, 285, 3376-3401.	2.2	28
22	A Novel GDP-d-glucose Phosphorylase Involved in Quality Control of the Nucleoside Diphosphate Sugar Pool in <i>Caenorhabditis elegans</i> and Mammals. Journal of Biological Chemistry, 2011, 286, 21511-21523.	1.6	27
23	Natural variation of chronological aging in the <i>Saccharomyces cerevisiae</i> species reveals diet-dependent mechanisms of life span control. Npj Aging and Mechanisms of Disease, 2018, 4, 3.	4.5	23
24	Rapid Stimulation of Free Glucuronate Formation by Non-glucuronidable Xenobiotics in Isolated Rat Hepatocytes. Journal of Biological Chemistry, 2003, 278, 36328-36333.	1.6	22
25	Glucuronate, the precursor of vitamin C, is directly formed from UDP-glucuronate in liver. FEBS Journal, 2006, 273, 1516-1527.	2.2	22
26	Defective responses to oxidative stress in protein l-isoaspartyl repair-deficient <i>Caenorhabditis elegans</i> . Mechanisms of Ageing and Development, 2009, 130, 670-680.	2.2	22
27	Enzyme complexity in intermediary metabolism. Journal of Inherited Metabolic Disease, 2015, 38, 721-727.	1.7	18
28	The Interplay between Protein L-Isoaspartyl Methyltransferase Activity and Insulin-Like Signaling to Extend Lifespan in <i>Caenorhabditis elegans</i> . PLoS ONE, 2011, 6, e20850.	1.1	17
29	Molecular Identification of d-Ribulokinase in Budding Yeast and Mammals. Journal of Biological Chemistry, 2017, 292, 1005-1028.	1.6	17
30	Connecting environmental exposure and neurodegeneration using cheminformatics and high resolution mass spectrometry: potential and challenges. Environmental Sciences: Processes and Impacts, 2019, 21, 1426-1445.	1.7	13
31	Phenotypic assays in yeast and zebrafish reveal drugs that rescue ATP13A2 deficiency. Brain Communications, 2019, 1, fcz019.	1.5	10
32	Molecular ruler mechanism and interfacial catalysis of the integral membrane acyltransferase PatA. Science Advances, 2021, 7, eabj4565.	4.7	9
33	A spectrophotometric assay of d-glucuronate based on <i>Escherichia coli</i> uronate isomerase and mannonate dehydrogenase. Protein Expression and Purification, 2004, 37, 352-360.	0.6	8
34	The metalloprotein YhcH is an anomerase providing N-acetylneuraminic acid aldolase with the open form of its substrate. Journal of Biological Chemistry, 2021, 296, 100699.	1.6	5
35	Approaches for completing metabolic networks through metabolite damage and repair discovery. Current Opinion in Systems Biology, 2021, 28, 100379.	1.3	4
36	BSA4Yeast: Web-based quantitative trait locus linkage analysis and bulk segregant analysis of yeast sequencing data. GigaScience, 2019, 8, .	3.3	3

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37	3-Phosphoglycerate Transhydrogenation Instead of Dehydrogenation Alleviates the Redox State Dependency of Yeast de Novo-Serine Synthesis. <i>Biochemistry</i> , 2019, 58, 259-275.	1.2	2
38	l-Isoaspartyl Methyltransferase Deficiency in Zebrafish Leads to Impaired Calcium Signaling in the Brain. <i>Frontiers in Genetics</i> , 2020, 11, 612343.	1.1	2
39	Reply: NAD(P)HX dehydratase protein-truncating mutations are associated with neurodevelopmental disorder exacerbated by acute illness. <i>Brain</i> , 2020, 143, e55-e55.	3.7	1
40	Reply: Niacin therapy improves outcome and normalizes metabolic abnormalities in an NAXD-deficient patient. <i>Brain</i> , 2022, 145, e41-e42.	3.7	1