

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	Reply: Niacin therapy improves outcome and normalizes metabolic abnormalities in an NAXD-deficient patient. <i>Brain</i> , 2022, 145, e41-e42.	3.7	1
2	The Role of DJ-1 in Cellular Metabolism and Pathophysiological Implications for Parkinson's Disease. <i>Cells</i> , 2021, 10, 347.	1.8	31
3	Approaches for completing metabolic networks through metabolite damage and repair discovery. <i>Current Opinion in Systems Biology</i> , 2021, 28, 100379.	1.3	4
4	The metalloprotein YhcH is an anomerase providing N-acetylneuraminic aldolase with the open form of its substrate. <i>Journal of Biological Chemistry</i> , 2021, 296, 100699.	1.6	5
5	Molecular ruler mechanism and interfacial catalysis of the integral membrane acyltransferase PatA. <i>Science Advances</i> , 2021, 7, eabj4565.	4.7	9
6	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
7	I-Isoaspartyl Methyltransferase Deficiency in Zebrafish Leads to Impaired Calcium Signaling in the Brain. <i>Frontiers in Genetics</i> , 2020, 11, 612343.	1.1	2
8	Connecting environmental exposure and neurodegeneration using cheminformatics and high resolution mass spectrometry: potential and challenges. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1426-1445.	1.7	13
9	Phenotypic assays in yeast and zebrafish reveal drugs that rescue ATP13A2 deficiency. <i>Brain Communications</i> , 2019, 1, fcz019.	1.5	10
10	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
11	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
12	BSA4Yeast: Web-based quantitative trait locus linkage analysis and bulk segregant analysis of yeast sequencing data. <i>GigaScience</i> , 2019, 8, .	3.3	3
13	NAD(P)HX dehydratase (NAXD) deficiency: a novel neurodegenerative disorder exacerbated by febrile illnesses. <i>Brain</i> , 2019, 142, 50-58.	3.7	51
14	Microfluidic culture improves human midbrain organoid vitality and differentiation. <i>Lab on A Chip</i> , 2018, 18, 3172-3183.	3.1	108
15	Natural variation of chronological aging in the <i>Saccharomyces cerevisiae</i> species reveals diet-dependent mechanisms of life span control. <i>Npj Aging and Mechanisms of Disease</i> , 2018, 4, 3.	4.5	23
16	<sc>NAD</sc>(P)<sc>HX</sc> repair deficiency causes central metabolic perturbations in yeast and human cells. <i>FEBS Journal</i> , 2018, 285, 3376-3401.	2.2	28
17	Nit1 is a metabolite repair enzyme that hydrolyzes deaminated glutathione. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3233-E3242.	3.3	32
18	Molecular Identification of d-Ribulokinase in Budding Yeast and Mammals. <i>Journal of Biological Chemistry</i> , 2017, 292, 1005-1028.	1.6	17

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19	Confronting the catalytic dark matter encoded by sequenced genomes. <i>Nucleic Acids Research</i> , 2017, 45, 11495-11514.	6.5	59
20	A conserved phosphatase destroys toxic glycolytic side products in mammals and yeast. <i>Nature Chemical Biology</i> , 2016, 12, 601-607.	3.9	88
21	<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
22	Enzyme complexity in intermediary metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2015, 38, 721-727.	1.7	18
23	Protocols and Programs for High-Throughput Growth and Aging Phenotyping in Yeast. <i>PLoS ONE</i> , 2015, 10, e0119807.	1.1	57
24	Occurrence and subcellular distribution of the NAD(P)HX repair system in mammals. <i>Biochemical Journal</i> , 2014, 460, 49-60.	1.7	43
25	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
26	Metabolite proofreading, a neglected aspect of intermediary metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2013, 36, 427-434.	1.7	69
27	Metabolite damage and its repair or pre-emption. <i>Nature Chemical Biology</i> , 2013, 9, 72-80.	3.9	248
28	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
29	The Interplay between Protein L-Isoaspartyl Methyltransferase Activity and Insulin-Like Signaling to Extend Lifespan in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2011, 6, e20850.	1.1	17
30	Ethylmalonyl-CoA Decarboxylase, a New Enzyme Involved in Metabolite Proofreading. <i>Journal of Biological Chemistry</i> , 2011, 286, 42992-43003.	1.6	46
31	A Novel GDP-d-glucose Phosphorylase Involved in Quality Control of the Nucleoside Diphosphate Sugar Pool in <i>Caenorhabditis elegans</i> and Mammals. <i>Journal of Biological Chemistry</i> , 2011, 286, 21511-21523.	1.6	27
32	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
33	Defective responses to oxidative stress in protein l-isoaspartyl repair-deficient <i>Caenorhabditis elegans</i> . <i>Mechanisms of Ageing and Development</i> , 2009, 130, 670-680.	2.2	22
34	l-Ascorbate biosynthesis in higher plants: the role of VTC2. <i>Trends in Plant Science</i> , 2008, 13, 567-573.	4.3	178
35	A Second GDP-l-galactose Phosphorylase in <i>Arabidopsis</i> en Route to Vitamin C. <i>Journal of Biological Chemistry</i> , 2008, 283, 18483-18492.	1.6	49
36	<i>Arabidopsis</i> 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

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37	Vitaminâ€fC. FEBS Journal, 2007, 274, 1-22.	2.2	604
38	Glucuronate, the precursor of vitamin C, is directly formed from UDP-glucuronate in liver. FEBS Journal, 2006, 273, 1516-1527.	2.2	22
39	A spectrophotometric assay of d-glucuronate based on Escherichia coli uronate isomerase and mannonate dehydrogenase. Protein Expression and Purification, 2004, 37, 352-360.	0.6	8
40	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