

Carole L Linster

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,201
citations

304743

22
h-index

289244

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. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7820-7825. | 7.1 | 765 |
| 2 | Vitaminâ€fC. FEBS Journal, 2007, 274, 1-22. | 4.7 | 604 |
| 3 | Metabolite damage and its repair or pre-emption. Nature Chemical Biology, 2013, 9, 72-80. | 8.0 | 248 |
| 4 | l-Ascorbate biosynthesis in higher plants: the role of VTC2. Trends in Plant Science, 2008, 13, 567-573. | 8.8 | 178 |
| 5 | Arabidopsis VTC2 Encodes a GDP-l-Galactose Phosphorylase, the Last Unknown Enzyme in the Smirnoff-Wheeler Pathway to Ascorbic Acid in Plants. Journal of Biological Chemistry, 2007, 282, 18879-18885. | 3.4 | 164 |
| 6 | Millifluidic culture improves human midbrain organoid vitality and differentiation. Lab on A Chip, 2018, 18, 3172-3183. | 6.0 | 108 |
| 7 | Extremely Conserved ATP- or ADP-dependent Enzymatic System for Nicotinamide Nucleotide Repair. Journal of Biological Chemistry, 2011, 286, 41246-41252. | 3.4 | 100 |
| 8 | Failure to eliminate a phosphorylated glucose analog leads to neutropenia in patients with G6PT and G6PC3 deficiency. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1241-1250. | 7.1 | 98 |
| 9 | Impact of Oxidative Stress on Ascorbate Biosynthesis in Chlamydomonas via Regulation of the VTC2 Gene Encoding a GDP-l-galactose Phosphorylase. Journal of Biological Chemistry, 2012, 287, 14234-14245. | 3.4 | 93 |
| 10 | A conserved phosphatase destroys toxic glycolytic side products in mammals and yeast. Nature Chemical Biology, 2016, 12, 601-607. | 8.0 | 88 |
| 11 | Metabolite proofreading, a neglected aspect of intermediary metabolism. Journal of Inherited Metabolic Disease, 2013, 36, 427-434. | 3.6 | 69 |
| 12 | Confronting the catalytic dark matter encoded by sequenced genomes. Nucleic Acids Research, 2017, 45, 11495-11514. | 14.5 | 59 |
| 13 | Protocols and Programs for High-Throughput Growth and Aging Phenotyping in Yeast. PLoS ONE, 2015, 10, e0119807. | 2.5 | 57 |
| 14 | Saccharomyces cerevisiae Forms d-2-Hydroxyglutarate and Couples Its Degradation to d-Lactate Formation via a Cytosolic Transhydrogenase. Journal of Biological Chemistry, 2016, 291, 6036-6058. | 3.4 | 56 |
| 15 | NAD(P)HX dehydratase (NAXD) deficiency: a novel neurodegenerative disorder exacerbated by febrile illnesses. Brain, 2019, 142, 50-58. | 7.6 | 51 |
| 16 | A Second GDP-l-galactose Phosphorylase in Arabidopsis en Route to Vitamin C. Journal of Biological Chemistry, 2008, 283, 18483-18492. | 3.4 | 49 |
| 17 | Ethylmalonyl-CoA Decarboxylase, a New Enzyme Involved in Metabolite Proofreading. Journal of Biological Chemistry, 2011, 286, 42992-43003. | 3.4 | 46 |
| 18 | Occurrence and subcellular distribution of the NAD(P)HX repair system in mammals. Biochemical Journal, 2014, 460, 49-60. | 3.7 | 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. | 7.1 | 32 |
| 20 | The Role of DJ-1 in Cellular Metabolism and Pathophysiological Implications for Parkinson's Disease. Cells, 2021, 10, 347. | 4.1 | 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. | 4.7 | 28 |
| 22 | A Novel GDP-d-glucose Phosphorylase Involved in Quality Control of the Nucleoside Diphosphate Sugar Pool in Caenorhabditis elegans and Mammals. Journal of Biological Chemistry, 2011, 286, 21511-21523. | 3.4 | 27 |
| 23 | Natural variation of chronological aging in the Saccharomyces cerevisiae 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. | 3.4 | 22 |
| 25 | Glucuronate, the precursor of vitamin C, is directly formed from UDP-glucuronate in liver. FEBS Journal, 2006, 273, 1516-1527. | 4.7 | 22 |
| 26 | Defective responses to oxidative stress in protein l-isoaspartyl repair-deficient Caenorhabditis elegans. Mechanisms of Ageing and Development, 2009, 130, 670-680. | 4.6 | 22 |
| 27 | Enzyme complexity in intermediary metabolism. Journal of Inherited Metabolic Disease, 2015, 38, 721-727. | 3.6 | 18 |
| 28 | The Interplay between Protein L-Isoaspartyl Methyltransferase Activity and Insulin-Like Signaling to Extend Lifespan in Caenorhabditis elegans. PLoS ONE, 2011, 6, e20850. | 2.5 | 17 |
| 29 | Molecular Identification of d-Ribulokinase in Budding Yeast and Mammals. Journal of Biological Chemistry, 2017, 292, 1005-1028. | 3.4 | 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. | 3.5 | 13 |
| 31 | Phenotypic assays in yeast and zebrafish reveal drugs that rescue ATP13A2 deficiency. Brain Communications, 2019, 1, fcz019. | 3.3 | 10 |
| 32 | Molecular ruler mechanism and interfacial catalysis of the integral membrane acyltransferase PatA. Science Advances, 2021, 7, eabj4565. | 10.3 | 9 |
| 33 | A spectrophotometric assay of d-glucuronate based on Escherichia coli uronate isomerase and mannonate dehydrogenase. Protein Expression and Purification, 2004, 37, 352-360. | 1.3 | 8 |
| 34 | The metalloprotein YhcH is an anomerase providing N-acetylneuraminate aldolase with the open form of its substrate. Journal of Biological Chemistry, 2021, 296, 100699. | 3.4 | 5 |
| 35 | Approaches for completing metabolic networks through metabolite damage and repair discovery. Current Opinion in Systems Biology, 2021, 28, 100379. | 2.6 | 4 |
| 36 | BSA4Yeast: Web-based quantitative trait locus linkage analysis and bulk segregant analysis of yeast sequencing data. GigaScience, 2019, 8, . | 6.4 | 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. | 2.5 | 2 |
| 38 | l-Isoaspartyl Methyltransferase Deficiency in Zebrafish Leads to Impaired Calcium Signaling in the Brain. <i>Frontiers in Genetics</i> , 2020, 11, 612343. | 2.3 | 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. | 7.6 | 1 |
| 40 | Reply: Niacin therapy improves outcome and normalizes metabolic abnormalities in an NAXD-deficient patient. <i>Brain</i> , 2022, 145, e41-e42. | 7.6 | 1 |