

Oliver H Lowry

List of Publications by Year in descending order

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88
papers

18,029
citations

41258

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60497

81
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91
all docs

91
docs citations

91
times ranked

4667
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A METHOD FOR THE RAPID DETERMINATION OF ALKALINE PHOSPHATASE WITH FIVE CUBIC MILLIMETERS OF SERUM. <i>Journal of Biological Chemistry</i> , 1946, 164, 321-329. | 1.6 | 2,653 |
| 2 | Effect of Ischemia on Known Substrates and Cofactors of the Glycolytic Pathway in Brain. <i>Journal of Biological Chemistry</i> , 1964, 239, 18-30. | 1.6 | 2,085 |
| 3 | THE DETERMINATION OF INORGANIC PHOSPHATE IN THE PRESENCE OF LABILE PHOSPHATE ESTERS. <i>Journal of Biological Chemistry</i> , 1946, 162, 421-428. | 1.6 | 1,474 |
| 4 | THE QUANTITATIVE HISTOCHEMISTRY OF BRAIN. <i>Journal of Biological Chemistry</i> , 1954, 207, 1-17. | 1.6 | 971 |
| 5 | THE QUANTITATIVE HISTOCHEMISTRY OF BRAIN. <i>Journal of Biological Chemistry</i> , 1954, 207, 19-37. | 1.6 | 758 |
| 6 | Phosphofructokinase and the Pasteur effect. <i>Biochemical and Biophysical Research Communications</i> , 1962, 7, 10-15. | 1.0 | 522 |
| 7 | The Relationships between Substrates and Enzymes of Glycolysis in Brain. <i>Journal of Biological Chemistry</i> , 1964, 239, 31-42. | 1.6 | 513 |
| 8 | Enzymic Assay of 10^{7} to 10^{14} Moles of Sucrose in Plant Tissues. <i>Plant Physiology</i> , 1977, 60, 379-383. | 2.3 | 508 |
| 9 | THE FLUOROMETRIC MEASUREMENT OF PYRIDINE NUCLEOTIDES. <i>Journal of Biological Chemistry</i> , 1957, 224, 1047-1064. | 1.6 | 504 |
| 10 | THE QUANTITATIVE HISTOCHEMISTRY OF THE BRAIN. <i>Journal of Histochemistry and Cytochemistry</i> , 1953, 1, 420-428. | 1.3 | 464 |
| 11 | The Measurement of Pyridine Nucleotides by Enzymatic Cycling. <i>Journal of Biological Chemistry</i> , 1961, 236, 2746-2755. | 1.6 | 452 |
| 12 | THE QUANTITATIVE HISTOCHEMISTRY OF THE RETINA. <i>Journal of Biological Chemistry</i> , 1956, 220, 879-892. | 1.6 | 378 |
| 13 | Effects of Changes in Brain Metabolism on the Levels of Citric Acid Cycle Intermediates. <i>Journal of Biological Chemistry</i> , 1966, 241, 3997-4003. | 1.6 | 376 |
| 14 | The Stability of Pyridine Nucleotides. <i>Journal of Biological Chemistry</i> , 1961, 236, 2756-2759. | 1.6 | 329 |
| 15 | Kinetic Evidence for Multiple Binding Sites on Phosphofructokinase. <i>Journal of Biological Chemistry</i> , 1966, 241, 2268-2279. | 1.6 | 316 |
| 16 | Enzymatic Analysis. , 1993, , . | | 315 |
| 17 | An enzymatic cycling method for nicotinamide-adenine dinucleotide with malic and alcohol dehydrogenases. <i>Analytical Biochemistry</i> , 1973, 53, 86-97. | 1.1 | 314 |
| 18 | The Distribution of Glutaminase Isoenzymes in the Various Structures of the Nephron in Normal, Acidotic, and Alkalotic Rat Kidney. <i>Journal of Biological Chemistry</i> , 1973, 248, 162-168. | 1.6 | 298 |

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|----|--|-----|-----------|
| 19 | THE DETERMINATION OF VITAMIN A AND CAROTENE IN SMALL QUANTITIES OF BLOOD SERUM. <i>Journal of Biological Chemistry</i> , 1946, 166, 177-188. | 1.6 | 289 |
| 20 | P-Fructokinase and the control of the citric acid cycle. <i>Biochemical and Biophysical Research Communications</i> , 1963, 13, 372-379. | 1.0 | 272 |
| 21 | REGIONAL ENERGY RESERVES IN MOUSE BRAIN AND CHANGES WITH ISCHAEMIA AND ANAESTHESIA. <i>Journal of Neurochemistry</i> , 1966, 13, 185-195. | 2.1 | 238 |
| 22 | THE DETERMINATION OF COLLAGEN AND ELASTIN IN TISSUES, WITH RESULTS OBTAINED IN VARIOUS NORMAL TISSUES FROM DIFFERENT SPECIES. <i>Journal of Biological Chemistry</i> , 1941, 139, 795-804. | 1.6 | 234 |
| 23 | Changes in Patterns of Enzymes of Carbohydrate Metabolism in the Developing Rat Liver. <i>Journal of Biological Chemistry</i> , 1963, 238, 2267-2273. | 1.6 | 194 |
| 24 | The role of phosphofructokinase in metabolic regulation. <i>Advances in Enzyme Regulation</i> , 1964, 2, 265-274. | 2.9 | 172 |
| 25 | THE QUANTITATIVE HISTOCHEMISTRY OF BRAIN. <i>Journal of Biological Chemistry</i> , 1954, 207, 39-49. | 1.6 | 167 |
| 26 | Quantitative Histochemistry of Retina. <i>Journal of Biological Chemistry</i> , 1961, 236, 2813-2820. | 1.6 | 166 |
| 27 | THE QUANTITATIVE HISTOCHEMISTRY OF THE BRAIN. <i>Journal of Biological Chemistry</i> , 1958, 232, 979-993. | 1.6 | 166 |
| 28 | THE DETERMINATION OF ASCORBIC ACID IN SMALL AMOUNTS OF BLOOD SERUM. <i>Journal of Biological Chemistry</i> , 1945, 160, 609-615. | 1.6 | 160 |
| 29 | THE ANALYSIS OF SINGLE CELLS. <i>Journal of Biological Chemistry</i> , 1956, 222, 97-107. | 1.6 | 150 |
| 30 | THE ADAPTATION OF THE BECKMAN SPECTROPHOTOMETER TO MEASUREMENTS ON MINUTE QUANTITIES OF BIOLOGICAL MATERIALS. <i>Journal of Biological Chemistry</i> , 1946, 163, 633-639. | 1.6 | 144 |
| 31 | THE DETERMINATION OF SERUM PROTEIN CONCENTRATION WITH A GRADIENT TUBE. <i>Journal of Biological Chemistry</i> , 1945, 159, 465-474. | 1.6 | 133 |
| 32 | [17] Micromethods for the assay of enzymes. <i>Methods in Enzymology</i> , 1957, 4, 366-381. | 0.4 | 124 |
| 33 | HISTOCHEMICAL CHANGES ASSOCIATED WITH AGING. <i>Journal of Biological Chemistry</i> , 1942, 143, 257-269. | 1.6 | 122 |
| 34 | QUANTITATIVE HISTOCHEMICAL CHANGES DURING THE DEVELOPMENT OF THE RAT CEREBRAL CORTEX. <i>Journal of Neurochemistry</i> , 1956, 1, 173-180. | 2.1 | 116 |
| 35 | Effects of Adenylic Acid on the Kinetics of Muscle Phosphorylase a. <i>Journal of Biological Chemistry</i> , 1964, 239, 1947-1953. | 1.6 | 108 |
| 36 | THE QUANTITATIVE HISTOCHEMISTRY OF BRAIN. <i>Journal of Biological Chemistry</i> , 1955, 213, 635-646. | 1.6 | 98 |

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|----|--|-----|-----------|
| 37 | Measurement of nanogram quantities of protein by hydrolysis followed by reaction with orthophthalaldehyde or determination of glutamate. <i>Analytical Biochemistry</i> , 1976, 76, 502-523. | 1.1 | 94 |
| 38 | Diversity of Metabolic Patterns in Human Brain Tumors: Enzymes of Energy Metabolism and Related Metabolites and Cofactors. <i>Journal of Neurochemistry</i> , 1983, 41, 994-1010. | 2.1 | 90 |
| 39 | SUBSTRATE CHANGES IN PERIPHERAL NERVE DURING ISCHAEMIA and WALLERIAN DEGENERATION. <i>Journal of Neurochemistry</i> , 1965, 12, 719-727. | 2.1 | 88 |
| 40 | PTERINE OXIDASE. <i>Journal of Biological Chemistry</i> , 1949, 180, 399-410. | 1.6 | 85 |
| 41 | A comparison of the kinetic properties of phosphofructokinase from bacterial, plant and animal sources. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1964, 248, 185-194. | 1.4 | 83 |
| 42 | MAST CELLS AS SOURCES OF TISSUE HISTAMINE. <i>Journal of Experimental Medicine</i> , 1955, 102, 307-318. | 4.2 | 75 |
| 43 | Uptake of Exogenous Glutamate and Aspartate by Circumventricular Organs but Not Other Regions of Brain. <i>Journal of Neurochemistry</i> , 1981, 36, 1774-1780. | 2.1 | 69 |
| 44 | MICRODETERMINATION OF $\hat{\pm}$ -KETO ACIDS WITH SPECIAL REFERENCE TO MALIC, LACTIC, AND GLUTAMIC DEHYDROGENASES IN BRAIN. <i>Journal of Biological Chemistry</i> , 1956, 218, 897-909. | 1.6 | 68 |
| 45 | An improved enzymatic cycle for nicotinamide-adenine dinucleotide phosphate. <i>Analytical Biochemistry</i> , 1978, 89, 119-129. | 1.1 | 66 |
| 46 | Distribution of Enzymes between Nucleus and Cytoplasm of Single Nerve Cell Bodies. <i>Journal of Biological Chemistry</i> , 1973, 248, 2044-2048. | 1.6 | 64 |
| 47 | The location of glutamine synthetase within the rat and rabbit nephron. <i>Biochemical and Biophysical Research Communications</i> , 1978, 82, 498-505. | 1.0 | 59 |
| 48 | Change in energy reserves in different segments of the nephron during brief ischemia. <i>Kidney International</i> , 1987, 31, 1239-1247. | 2.6 | 58 |
| 49 | QUANTITATIVE METHODS FOR MEASURING THE HISTOCHEMICAL DISTRIBUTION OF ALANINE, GLUTAMATE AND GLUTAMINE IN BRAIN. <i>Journal of Neurochemistry</i> , 1966, 13, 785-793. | 2.1 | 55 |
| 50 | THE MEASUREMENT OF FREE AND N-ACETYLATED ASPARTIC ACIDS IN THE NERVOUS SYSTEM. <i>Journal of Neurochemistry</i> , 1966, 13, 779-783. | 2.1 | 51 |
| 51 | How to Succeed in Research Without Being a Genius. <i>Annual Review of Biochemistry</i> , 1990, 59, 1-28. | 5.0 | 44 |
| 52 | Effect of Duchenne muscular dystrophy on enzymes of energy metabolism in individual muscle fibers. <i>Metabolism: Clinical and Experimental</i> , 1987, 36, 761-767. | 1.5 | 43 |
| 53 | The turnover of protein in discrete areas of rat brain. <i>Biochemical Journal</i> , 1972, 126, 351-359. | 3.2 | 42 |
| 54 | MICRODETERMINATION OF PHOSPHOLIPIDES AND SPHINGOLIPIDES IN BRAIN. <i>Journal of Biological Chemistry</i> , 1956, 220, 661-675. | 1.6 | 41 |

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|----|---|-----|-----------|
| 55 | Effect of microgravity on metabolic enzymes of individual muscle fibers. <i>FASEB Journal</i> , 1990, 4, 55-63. | 0.2 | 39 |
| 56 | Measurement of metabolites in single preimplantation embryos; a new means to study metabolic control in early embryos. <i>Development (Cambridge)</i> , 1978, 43, 29-46. | 1.2 | 34 |
| 57 | A MICRO PHOTOFLUOROMETER. <i>Journal of Biological Chemistry</i> , 1948, 173, 677-682. | 1.6 | 33 |
| 58 | Stabilizing the alkali-generated fluorescent derivatives of NAD and NADP. <i>Analytical Biochemistry</i> , 1974, 59, 639-642. | 1.1 | 32 |
| 59 | ENZYME CONCENTRATIONS IN INDIVIDUAL NERVE CELL BODIES. , 1957, , 323-328. | | 32 |
| 60 | Enzymatic fluorometric assay for myo-inositol trisphosphate. <i>Analytical Biochemistry</i> , 1987, 162, 562-568. | 1.1 | 31 |
| 61 | A Collection of Metabolite Assays. , 1993, , 111-228. | | 24 |
| 62 | Flavin enzymes in liver and kidney of rats from birth to weaning. <i>Journal of Cellular and Comparative Physiology</i> , 1958, 52, 503-510. | 1.8 | 23 |
| 63 | Measurement of 10^{-7} to 10^{-12} mol of potassium by stimulation of pyruvate kinase. <i>Analytical Biochemistry</i> , 1979, 92, 370-374. | 1.1 | 23 |
| 64 | Enzyme levels in cultured astrocytes, oligodendrocytes and Schwann cells, and neurons from the cerebral cortex and superior cervical ganglia of the rat. <i>Neurochemical Research</i> , 1991, 16, 991-999. | 1.6 | 23 |
| 65 | Uptake of Exogenous Aspartate into Circumventricular Organs but Not Other Regions of Adult Mouse Brain. <i>Journal of Neurochemistry</i> , 1984, 42, 740-744. | 2.1 | 22 |
| 66 | Distribution of Guanine Deaminase in Mouse Brain. <i>Journal of Neurochemistry</i> , 1985, 44, 1736-1740. | 2.1 | 22 |
| 67 | An enzymatic method for glycine. <i>Analytical Biochemistry</i> , 1975, 65, 232-240. | 1.1 | 17 |
| 68 | Localization of glutamine accumulation and tubular reabsorption in rat nephron. <i>Kidney International</i> , 1978, 14, 406-413. | 2.6 | 17 |
| 69 | THE DETERMINATION OF IRON IN SMALL VOLUMES OF BLOOD SERUM. <i>Journal of Biological Chemistry</i> , 1948, 174, 791-802. | 1.6 | 17 |
| 70 | Enzymes of glycogen metabolism and related metabolites in preimplantation mouse embryos. <i>Developmental Biology</i> , 1979, 72, 342-349. | 0.9 | 16 |
| 71 | Role of nicotinamide adenine dinucleotide in ethanol-induced depressions in testicular steroidogenesis. <i>Biochemical Pharmacology</i> , 1983, 32, 107-113. | 2.0 | 16 |
| 72 | Distribution of Glycine, γ -Aminobutyric Acid, Glutamate Decarboxylase, and γ -Aminobutyric Acid Transaminase in Rabbit and Mudpuppy Retinas. <i>Journal of Neurochemistry</i> , 1984, 42, 1274-1280. | 2.1 | 16 |

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|----|---|-----|-----------|
| 73 | Distribution of Three Enzymes of γ -Aminobutyric Acid Metabolism in Monkey Retina. Journal of Neurochemistry, 1984, 42, 1269-1273. | 2.1 | 15 |
| 74 | Branched-chain amino acid aminotransferase along the rabbit and rat nephron. Kidney International, 1985, 28, 114-117. | 2.6 | 13 |
| 75 | Distribution of the Glucose-1,6-Bisphosphate System in Brain and Retina. Journal of Neurochemistry, 1988, 50, 594-602. | 2.1 | 12 |
| 76 | Distribution in brain and retina of four enzymes of acetyl CoA synthesis in relation to choline acetyl transferase and acetylcholine esterase. Neurochemical Research, 1991, 16, 629-635. | 1.6 | 11 |
| 77 | The application of quantitative histochemistry to the pharmacology of the nervous system. Biochemical Pharmacology, 1962, 9, 173-180. | 2.0 | 9 |
| 78 | [111] Measurement of pyridine nucleotides by enzymatic cycling. Methods in Enzymology, 1963, 6, 792-800. | 0.4 | 9 |
| 79 | Distribution of Glucose- 1,6-Bisphosphate and IMP-Activated Glucose Bisphosphatase in Brain and Retina. Journal of Neurochemistry, 1985, 44, 1741-1746. | 2.1 | 9 |
| 80 | ENZYMOLOGICAL HETEROGENEITY OF HUMAN MUSCLE FIBERS. , 1980, , 3-18. | | 8 |
| 81 | A method for branched-chain amino acid aminotransferase activity in microgram and nanogram tissue samples. Analytical Biochemistry, 1985, 146, 418-422. | 1.1 | 8 |
| 82 | THE EFFECTS OF ALTERED BRAIN METABOLISM ON THE LEVELS OF KREBS CYCLE INTERMEDIATES**The work reported here was supported by Grants from the American Cancer Society (P-38) and the National Institutes of Health 5 T1 NB 5221 and 1F2-GM-19, 735.. , 1965, , 321-329. | | 8 |
| 83 | Glucose Metabolism Assessed with 2-Deoxyglucose and the Effect of Glutamate in Subdivisions of Rat Hippocampal Slices. Journal of Neurochemistry, 1992, 59, 1915-1924. | 2.1 | 7 |
| 84 | Distribution of Cyclic Nucleotide Phosphodiesterase in Mouse Brain. Journal of Neurochemistry, 1981, 36, 1272-1278. | 2.1 | 6 |
| 85 | PHOSPHOFRUCTOKINASE**Hess: Since this meeting was held, we have realized that in 1936, E. Negelein (Biochem. Z., 287, 329 (1936)), published a method for the preparation of highly active and stable yeast PFK.. , 1965, , 63-64. | | 3 |
| 86 | A Collection of Enzyme Assays. , 1993, , 229-305. | | 3 |
| 87 | The heterogeneity of muscle. Carlsberg Research Communications, 1984, 49, 307-314. | 1.7 | 2 |
| 88 | Solving Problems That May Arise in Devising Highâ€ Sensitivity Pyridine Nucleotide Analytical Systems^a. Transactions of the New York Academy of Sciences, 1983, 41, 97-102. | 0.2 | 0 |