# David E Ash

List of Publications by Year
in descending order

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|---|---|---|---|
| 27<br>papers | 2,114<br>citations | 331670<br>21<br>h-index | 526287<br>27<br>g-index |
| 27<br>all docs | 27<br>docs citations | 27<br>times ranked | 1605<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Slow and sustained nitric oxide releasing compounds inhibit multipotent vascular stem cell proliferation and differentiation without causing cell death. Biochemical and Biophysical Research Communications, 2014, 450, 208-212. | 2.1 | 12 |
| 2 | Secondary amines containing one aromatic nitro group: Preparation, nitrosation, sustained nitric oxide release, and the synergistic effects of released nitric oxide and an arginase inhibitor on vascular smooth muscle cell proliferation. Bioorganic and Medicinal Chemistry, 2013, 21, 1123-1135. | 3.0 | 12 |
| 3 | Probing the Specificity Determinants of Amino Acid Recognition by Arginase. Biochemistry, 2009, 48, 121-131. | 2.5 | 35 |
| 4 | Determination of Mammalian Arginase Activity. Methods in Enzymology, 2008, 440, 221-230. | 1.0 | 23 |
| 5 | Probing the role of the hyper-reactive histidine residue of arginase. Archives of Biochemistry and Biophysics, 2005, 444, 15-26. | 3.0 | 15 |
| 6 | Inhibitor Coordination Interactions in the Binuclear Manganese Cluster of Arginase,. Biochemistry, 2004, 43, 8987-8999. | 2.5 | 61 |
| 7 | Structure and Function of Arginases. Journal of Nutrition, 2004, 134, 2760S-2764S. | 2.9 | 166 |
| 8 | Human Arginase II:Â Crystal Structure and Physiological Role in Male and Female Sexual Arousalâ€,â€¡. Biochemistry, 2003, 42, 8445-8451. | 2.5 | 131 |
| 9 | Structural and Functional Importance of First-Shell Metal Ligands in the Binuclear Manganese Cluster of Arginase Iâ€,â€¡. Biochemistry, 2003, 42, 7748-7758. | 2.5 | 42 |
| 10 | Functional Consequences of the G235R Mutation in Liver Arginase Leading to Hyperargininemia. Archives of Biochemistry and Biophysics, 2002, 399, 49-55. | 3.0 | 11 |
| 11 | Mechanistic and Metabolic Inferences from the Binding of Substrate Analogues and Products to Arginaseâ€,â€¡. Biochemistry, 2001, 40, 2689-2701. | 2.5 | 77 |
| 12 | Expression, Purification, and Characterization of Human Type II Arginase. Archives of Biochemistry and Biophysics, 2001, 389, 135-143. | 3.0 | 52 |
| 13 | Classical and Slow-Binding Inhibitors of Human Type II Arginase. Biochemistry, 2001, 40, 9356-9362. | 2.5 | 101 |
| 14 | Probing Erectile Function:ÂS-(2-Boronoethyl)-l-Cysteine Binds to Arginase as a Transition State Analogue and Enhances Smooth Muscle Relaxation in Human Penile Corpus Cavernosumâ€,â€¡. Biochemistry, 2001, 40, 2678-2688. | 2.5 | 163 |
| 15 | Subunit-Subunit Interactions in Trimeric Arginase. Journal of Biological Chemistry, 2001, 276, 14242-14248. | 3.4 | 55 |
| 16 | l-Arginine Binding to Liver Arginase Requires Proton Transfer to Gateway Residue His141 and Coordination of the Guanidinium Group to the Dimanganese(II,II) Centerâ€. Biochemistry, 1998, 37, 8539-8550. | 2.5 | 62 |
| 17 | Molecular Basis of Hyperargininemia: Structure-Function Consequences of Mutations in Human Liver Arginase. Molecular Genetics and Metabolism, 1998, 64, 243-249. | 1.1 | 33 |
| 18 | Purification of a Multipotent Antideath Activity from Bovine Liver and Its Identification as Arginase: Nitric Oxide-Independent Inhibition of Neuronal Apoptosis. Journal of Neuroscience, 1998, 18, 4083-4095. | 3.6 | 73 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | EXAFS Comparison of the Dimanganese Core Structures of Manganese Catalase, Arginase, and Manganese-Substituted Ribonucleotide Reductase and Hemerythrinâ€. Biochemistry, 1997, 36, 9847-9858. | 2.5 | 87 |
| 20 | VO2+(IV) Complexes with Pyruvate Carboxylase:Â Activation of Oxaloacetate Decarboxylation and EPR Properties of Enzymeâ^'VO2+Complexesâ€. Biochemistry, 1997, 36, 14392-14402. | 2.5 | 10 |
| 21 | Inhibition of Mn2+2-Arginase by Borate Leads to the Design of a Transition State Analogue Inhibitor, 2(S)-Amino-6-boronohexanoic Acid. Journal of the American Chemical Society, 1997, 119, 8107-8108. | 13.7 | 123 |
| 22 | Altering the Binuclear Manganese Cluster of Arginase Diminishes Thermostability and Catalytic Function. Biochemistry, 1997, 36, 10558-10565. | 2.5 | 84 |
| 23 | Structure of a unique binuclear manganese cluster in arginase. Nature, 1996, 383, 554-557. | 27.8 | 425 |
| 24 | The irreversible inactivation of two copper-dependent monooxygenases by sulfite: peptidylglycine Î±-amidating enzyme and dopamine Î²-monooxygenase. FEBS Letters, 1995, 366, 165-169. | 2.8 | 19 |
| 25 | Mutagenesis of Rat Liver Arginase Expressed in Escherichia coli: Role of Conserved Histidines. Biochemistry, 1994, 33, 10652-10657. | 2.5 | 91 |
| 26 | EPR evidence for binuclear manganese(II) centers in rat liver arginase. Journal of the American Chemical Society, 1992, 114, 10992-10994. | 13.7 | 117 |
| 27 | Crystallization and oligomeric structure of rat liver arginase. Journal of Molecular Biology, 1992, 224, 1175-1177. | 4.2 | 34 |