David E Ash

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Structure of a unique binuclear manganese cluster in arginase. Nature, 1996, 383, 554-557.	27.8	425
2	Structure and Function of Arginases. Journal of Nutrition, 2004, 134, 2760S-2764S.	2.9	166
3	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
4	Human Arginase II:Â Crystal Structure and Physiological Role in Male and Female Sexual Arousalâ€,â€¡. Biochemistry, 2003, 42, 8445-8451.	2.5	131
5	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
6	EPR evidence for binuclear manganese(II) centers in rat liver arginase. Journal of the American Chemical Society, 1992, 114, 10992-10994.	13.7	117
7	Classical and Slow-Binding Inhibitors of Human Type II Arginase. Biochemistry, 2001, 40, 9356-9362.	2.5	101
8	Mutagenesis of Rat Liver Arginase Expressed in Escherichia coli: Role of Conserved Histidines. Biochemistry, 1994, 33, 10652-10657.	2.5	91
9	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
10	Altering the Binuclear Manganese Cluster of Arginase Diminishes Thermostability and Catalytic Function. Biochemistry, 1997, 36, 10558-10565.	2.5	84
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	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
13	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
14	Inhibitor Coordination Interactions in the Binuclear Manganese Cluster of Arginase,. Biochemistry, 2004, 43, 8987-8999.	2.5	61
15	Subunit-Subunit Interactions in Trimeric Arginase. Journal of Biological Chemistry, 2001, 276, 14242-14248.	3.4	55
16	Expression, Purification, and Characterization of Human Type II Arginase. Archives of Biochemistry and Biophysics, 2001, 389, 135-143.	3.0	52
17	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
18	Probing the Specificity Determinants of Amino Acid Recognition by Arginase. Biochemistry, 2009, 48, 121-131.	2.5	35

#	Article	IF	Citations
19	Crystallization and oligomeric structure of rat liver arginase. Journal of Molecular Biology, 1992, 224, 1175-1177.	4.2	34
20	Molecular Basis of Hyperargininemia: Structure-Function Consequences of Mutations in Human Liver Arginase. Molecular Genetics and Metabolism, 1998, 64, 243-249.	1.1	33
21	Determination of Mammalian Arginase Activity. Methods in Enzymology, 2008, 440, 221-230.	1.0	23
22	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
23	Probing the role of the hyper-reactive histidine residue of arginase. Archives of Biochemistry and Biophysics, 2005, 444, 15-26.	3.0	15
24	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
25	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
26	Functional Consequences of the G235R Mutation in Liver Arginase Leading to Hyperargininemia. Archives of Biochemistry and Biophysics, 2002, 399, 49-55.	3.0	11
27	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