

David E Ash

List of Publications by Year in descending order

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27
papers

2,114
citations

377584

21
h-index

591227

27
g-index

27
all docs

27
docs citations

27
times ranked

1778
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. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 208-212.	1.0	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. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 1123-1135.	1.4	12
3	Probing the Specificity Determinants of Amino Acid Recognition by Arginase. <i>Biochemistry</i> , 2009, 48, 121-131.	1.2	35
4	Determination of Mammalian Arginase Activity. <i>Methods in Enzymology</i> , 2008, 440, 221-230.	0.4	23
5	Probing the role of the hyper-reactive histidine residue of arginase. <i>Archives of Biochemistry and Biophysics</i> , 2005, 444, 15-26.	1.4	15
6	Inhibitor Coordination Interactions in the Binuclear Manganese Cluster of Arginase. <i>Biochemistry</i> , 2004, 43, 8987-8999.	1.2	61
7	Structure and Function of Arginases. <i>Journal of Nutrition</i> , 2004, 134, 2760S-2764S.	1.3	166
8	Human Arginase II: Crystal Structure and Physiological Role in Male and Female Sexual Arousal. <i>Biochemistry</i> , 2003, 42, 8445-8451.	1.2	131
9	Structural and Functional Importance of First-Shell Metal Ligands in the Binuclear Manganese Cluster of Arginase. <i>Biochemistry</i> , 2003, 42, 7748-7758.	1.2	42
10	Functional Consequences of the G235R Mutation in Liver Arginase Leading to Hyperargininemia. <i>Archives of Biochemistry and Biophysics</i> , 2002, 399, 49-55.	1.4	11
11	Mechanistic and Metabolic Inferences from the Binding of Substrate Analogues and Products to Arginase. <i>Biochemistry</i> , 2001, 40, 2689-2701.	1.2	77
12	Expression, Purification, and Characterization of Human Type II Arginase. <i>Archives of Biochemistry and Biophysics</i> , 2001, 389, 135-143.	1.4	52
13	Classical and Slow-Binding Inhibitors of Human Type II Arginase. <i>Biochemistry</i> , 2001, 40, 9356-9362.	1.2	101
14	Probing Erectile Function: S-(2-Boronoethyl)-L-Cysteine Binds to Arginase as a Transition State Analogue and Enhances Smooth Muscle Relaxation in Human Penile Corpus Cavernosum. <i>Biochemistry</i> , 2001, 40, 2678-2688.	1.2	163
15	Subunit-Subunit Interactions in Trimeric Arginase. <i>Journal of Biological Chemistry</i> , 2001, 276, 14242-14248.	1.6	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) Center. <i>Biochemistry</i> , 1998, 37, 8539-8550.	1.2	62
17	Molecular Basis of Hyperargininemia: Structure-Function Consequences of Mutations in Human Liver Arginase. <i>Molecular Genetics and Metabolism</i> , 1998, 64, 243-249.	0.5	33
18	Purification of a Multipotent Antideath Activity from Bovine Liver and Its Identification as Arginase: Nitric Oxide-Independent Inhibition of Neuronal Apoptosis. <i>Journal of Neuroscience</i> , 1998, 18, 4083-4095.	1.7	73

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19	EXAFS Comparison of the Dimanganese Core Structures of Manganese Catalase, Arginase, and Manganese-Substituted Ribonucleotide Reductase and Hemerythrin. <i>Biochemistry</i> , 1997, 36, 9847-9858.	1.2	87
20	VO ₂ ⁺ (IV) Complexes with Pyruvate Carboxylase: Activation of Oxaloacetate Decarboxylation and EPR Properties of Enzyme-VO ₂ ⁺ Complexes. <i>Biochemistry</i> , 1997, 36, 14392-14402.	1.2	10
21	Inhibition of Mn ²⁺ -Arginase by Borate Leads to the Design of a Transition State Analogue Inhibitor, 2(S)-Amino-6-borono-hexanoic Acid. <i>Journal of the American Chemical Society</i> , 1997, 119, 8107-8108.	6.6	123
22	Altering the Binuclear Manganese Cluster of Arginase Diminishes Thermostability and Catalytic Function. <i>Biochemistry</i> , 1997, 36, 10558-10565.	1.2	84
23	Structure of a unique binuclear manganese cluster in arginase. <i>Nature</i> , 1996, 383, 554-557.	13.7	425
24	The irreversible inactivation of two copper-dependent monooxygenases by sulfite: peptidylglycine β -amidating enzyme and dopamine β -monooxygenase. <i>FEBS Letters</i> , 1995, 366, 165-169.	1.3	19
25	Mutagenesis of Rat Liver Arginase Expressed in <i>Escherichia coli</i> : Role of Conserved Histidines. <i>Biochemistry</i> , 1994, 33, 10652-10657.	1.2	91
26	EPR evidence for binuclear manganese(II) centers in rat liver arginase. <i>Journal of the American Chemical Society</i> , 1992, 114, 10992-10994.	6.6	117
27	Crystallization and oligomeric structure of rat liver arginase. <i>Journal of Molecular Biology</i> , 1992, 224, 1175-1177.	2.0	34