

# Joseph Bonaventura

## List of Publications by Year in descending order

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37  
papers

5,039  
citations

236833

25  
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395590

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g-index

37  
all docs

37  
docs citations

37  
times ranked

3207  
citing authors

#	ARTICLE	IF	CITATIONS
1	S-nitrosohaemoglobin: a dynamic activity of blood involved in vascular control. <i>Nature</i> , 1996, 380, 221-226.	13.7	1,584
2	Blood Flow Regulation by S-Nitrosohemoglobin in the Physiological Oxygen Gradient. <i>Science</i> , 1997, 276, 2034-2037.	6.0	1,030
3	Crystallographic analysis of oxygenated and deoxygenated states of arthropod hemocyanin shows unusual differences. <i>Proteins: Structure, Function and Bioinformatics</i> , 1994, 19, 302-309.	1.5	379
4	Crystal structure of deoxygenated <i>Limulus polyphemus</i> subunit II hemocyanin at 2.18 Å... resolution: Clues for a mechanism for allosteric regulation. <i>Protein Science</i> , 1993, 2, 597-619.	3.1	301
5	<i>Ascaris</i> haemoglobin is a nitric oxide-activated heme-deoxygenase. <i>Nature</i> , 1999, 401, 497-502.	13.7	215
6	Human erythrocyte catalase: An improved method of isolation and a reevaluation of reported properties. <i>Archives of Biochemistry and Biophysics</i> , 1972, 150, 606-617.	1.4	172
7	NO is necessary and sufficient for egg activation at fertilization. <i>Nature</i> , 2000, 406, 633-636.	13.7	156
8	Barnacle cement: a polymerization model based on evolutionary concepts. <i>Journal of Experimental Biology</i> , 2009, 212, 3499-3510.	0.8	131
9	Functional Coupling of Oxygen Binding and Vasoactivity in S-Nitrosohemoglobin. <i>Journal of Biological Chemistry</i> , 2000, 275, 16738-16745.	1.6	128
10	The complete amino acid sequence of bovine liver catalase and the partial sequence of bovine erythrocyte catalase. <i>Archives of Biochemistry and Biophysics</i> , 1982, 214, 397-421.	1.4	120
11	Identification of Chloride-Binding Sites in Hemoglobin by Nuclear-Magnetic-Resonance Quadrupole-Relaxation Studies of Hemoglobin Digests. <i>FEBS Journal</i> , 1975, 55, 385-390.	0.2	91
12	Carbon monoxide binding by hemocyanins of <i>Limulus polyphemus</i> , <i>Busycon carica</i> , and <i>Callinectes sapidus</i> . <i>Biochemistry</i> , 1974, 13, 4784-4789.	1.2	82
13	S-Nitrosylation-induced Conformational Change in Blackfin Tuna Myoglobin. <i>Journal of Biological Chemistry</i> , 2007, 282, 19773-19780.	1.6	53
14	Quaternary structure of <i>Limulus polyphemus</i> hemocyanin. <i>Biochemistry</i> , 1983, 22, 5573-5583.	1.2	52
15	Oxygen binding by <i>Limulus polyphemus</i> hemocyanin: allosteric modulation by chloride ions. <i>Biochemistry</i> , 1977, 16, 3897-3902.	1.2	51
16	Subunit composition of a high molecular weight oligomer: <i>Limulus polyphemus</i> hemocyanin. <i>Archives of Biochemistry and Biophysics</i> , 1981, 210, 748-761.	1.4	49
17	Functional properties of carboxypeptidase-digested hemoglobins. <i>Journal of Molecular Biology</i> , 1974, 82, 499-511.	2.0	46
18	Oxygen Regulation of Tumor Perfusion by S-Nitrosohemoglobin Reveals a Pressor Activity of Nitric Oxide. <i>Circulation Research</i> , 2005, 96, 1119-1126.	2.0	42

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19	Metal ion interactions with <i>Limulus polyphemus</i> and <i>Callinectes sapidus</i> hemocyanin: stoichiometry and structural and functional consequences of calcium(II), cadmium(II), zinc(II), and mercury(II) binding. <i>Biochemistry</i> , 1983, 22, 4713-4723.	1.2	39
20	Clinical implications of the loss of vasoactive nitric oxide during red blood cell storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19165-19166.	3.3	36
21	Nitric-oxide Synthase Forms N-NO-pterin and S-NO-Cys. <i>Journal of Biological Chemistry</i> , 2010, 285, 31581-31589.	1.6	36
22	Self-association and oxygen-binding characteristics of the isolated subunits of <i>Limulus polyphemus</i> hemocyanin. <i>Archives of Biochemistry and Biophysics</i> , 1984, 230, 238-249.	1.4	33
23	Effect of Heme and Non-Heme Ligands on Subunit Dissociation of Normal and Carboxypeptidase-digested Hemoglobin. <i>Journal of Biological Chemistry</i> , 1974, 249, 5689-5694.	1.6	33
24	Internal Electron Transfer between Hemes and Cu(II) Bound at Cysteine 293 Promotes Methemoglobin Reduction by Carbon Monoxide. <i>Journal of Biological Chemistry</i> , 1999, 274, 5499-5507.	1.6	26
25	S-Nitrosohemoglobin: an allosteric mediator of NO group function in mammalian vasculature. <i>Free Radical Biology and Medicine</i> , 2004, 37, 442-453.	1.3	26
26	ANIONIC CONTROL OF HEMOGLOBIN FUNCTION. , 1978, , 647-663.		21
27	NO and superoxide: Opposite ends of the seesaw in cardiac contractility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16403-16404.	3.3	20
28	The partial amino acid sequence of human erythrocyte catalase. <i>Archives of Biochemistry and Biophysics</i> , 1982, 214, 422-424.	1.4	19
29	Invertebrate hemoglobins and nitric oxide: How heme pocket structure controls reactivity. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 903-911.	1.5	18
30	Nuclear magnetic resonance quadrupole relaxation study of chloride binding to hemoglobin abruzzo (H143 His → Arg). <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1974, 336, 403-406.	1.7	16
31	Parallel assay of oxygen equilibria of hemoglobin. <i>Analytical Biochemistry</i> , 2013, 441, 63-68.	1.1	16
32	Competition in Oxygen-Linked Anion Binding to Normal and Variant Human Hemoglobins. <i>Hemoglobin</i> , 1980, 4, 275-289.	0.4	9
33	Nitric Oxide, Invertebrates and Hemoglobin1. <i>American Zoologist</i> , 2001, 41, 346-359.	0.7	5
34	Nitric Oxide, Invertebrates and Hemoglobin. <i>American Zoologist</i> , 2001, 41, 346-359.	0.7	2
35	The Main Players: Hemoglobin and Myoglobin; Nitric Oxide and Oxygen. , 0, , 47-62.		2
36	HEMOGLOBIN ENGINEERING: CONSEQUENCES OF ALTERATIONS AT FUNCTIONALLY SENSITIVE SITES PARTICULARLY SUSCEPTIBLE TO CHEMICAL OR ENZYMATI1This work was supported in part by National Institutes of Health Research Grant HL-15460 and National Science Foundation Grant BMS 73-01695 and NATO Grant Number 866. Joseph Bonaventura is an Established Investigator of the American Heart Association. George Lapennas is supported by Training Grant HL 07057-03.. , 1978, , 109-122.		0

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37	Effects of Anions and CO2 on the Dissociation of Liganded-Human Hemoglobin and Human Hemoglobin Variants. , 1982, , 257-261.		0