

# Roy E Weber

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,760  
citations

331538

21  
h-index

580701

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ontogeny of hemoglobin's oxygen binding and multiplicity in the obligate air-breathing fish <i>Arapaima gigas</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2022, 268, 111190.	0.8	1
2	Evolutionary History of the Globin Gene Family in Annelids. <i>Genome Biology and Evolution</i> , 2020, 12, 1719-1733.	1.1	8
3	Structure and function of crocodylian hemoglobins and allosteric regulation by chloride, ATP, and CO <sub>2</sub> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R657-R667.	0.9	12
4	Effect of NH <sub>2</sub> -terminal acetylation on the oxygenation properties of vertebrate haemoglobin. <i>Biochemical Journal</i> , 2020, 477, 3839-3850.	1.7	6
5	Molecular basis of hemoglobin adaptation in the high-flying bar-headed goose. <i>PLoS Genetics</i> , 2018, 14, e1007331.	1.5	58
6	Allosteric mechanisms underlying the adaptive increase in hemoglobin-oxygen affinity of the bar-headed goose. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	29
7	Stability-Mediated Epistasis Restricts Accessible Mutational Pathways in the Functional Evolution of Avian Hemoglobin. <i>Molecular Biology and Evolution</i> , 2017, 34, 1240-1251.	3.5	49
8	Predictable convergence in hemoglobin function has unpredictable molecular underpinnings. <i>Science</i> , 2016, 354, 336-339.	6.0	206
9	Oxygenation properties and isoform diversity of snake hemoglobins. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1178-R1191.	0.9	29
10	Intraspecific Polymorphism, Interspecific Divergence, and the Origins of Function-Altering Mutations in Deer Mouse Hemoglobin. <i>Molecular Biology and Evolution</i> , 2015, 32, 978-997.	3.5	88
11	Epistasis Constrains Mutational Pathways of Hemoglobin Adaptation in High-Altitude Pikas. <i>Molecular Biology and Evolution</i> , 2015, 32, 287-298.	3.5	95
12	Genetically based low oxygen affinities of felid hemoglobins: lack of biochemical adaptation to high-altitude hypoxia in the snow leopard. <i>Journal of Experimental Biology</i> , 2015, 218, 2402-2409.	0.8	40
13	Contribution of a mutational hot spot to hemoglobin adaptation in high-altitude Andean house wrens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13958-13963.	3.3	86
14	Convergent Evolution of Hemoglobin Function in High-Altitude Andean Waterfowl Involves Limited Parallelism at the Molecular Sequence Level. <i>PLoS Genetics</i> , 2015, 11, e1005681.	1.5	103
15	Lack of conventional oxygen-linked proton and anion binding sites does not impair allosteric regulation of oxygen binding in dwarf caiman hemoglobin. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R300-R312.	0.9	33
16	Hemoglobin function and allosteric regulation in semi-fossorial rodents (family Sciuridae) with different altitudinal ranges. <i>Journal of Experimental Biology</i> , 2013, 216, 4264-4271.	0.8	40
17	Repeated elevational transitions in hemoglobin function during the evolution of Andean hummingbirds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20669-20674.	3.3	149
18	Epistasis Among Adaptive Mutations in Deer Mouse Hemoglobin. <i>Science</i> , 2013, 340, 1324-1327.	6.0	174

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19	Gene Duplication and the Evolution of Hemoglobin Isoform Differentiation in Birds. Journal of Biological Chemistry, 2012, 287, 37647-37658.	1.6	54
20	High-altitude adaptations in vertebrate hemoglobins. Respiratory Physiology and Neurobiology, 2007, 158, 132-142.	0.7	136
21	Functional adaptation and its molecular basis in vertebrate hemoglobins, neuroglobins and cytoglobins. Respiratory Physiology and Neurobiology, 2004, 144, 141-159.	0.7	117
22	The Anodic Hemoglobin of <i>Anguilla anguilla</i> . Journal of Biological Chemistry, 1997, 272, 15628-15635.	1.6	46
23	The hemoglobin system of the hagfish <i>Myxine glutinosa</i> : aggregation state and functional properties. BBA - Proteins and Proteomics, 1995, 1249, 109-115.	2.1	27
24	The Cathodic Hemoglobin of <i>Anguilla anguilla</i> . Journal of Biological Chemistry, 1995, 270, 18897-18902.	1.6	53
25	Cationic control of O <sub>2</sub> affinity in lugworm erythrocrucorin. Nature, 1981, 292, 386-387.	13.7	121