Roy E Weber

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Predictable convergence in hemoglobin function has unpredictable molecular underpinnings. Science, 2016, 354, 336-339.	6.0	206
2	Epistasis Among Adaptive Mutations in Deer Mouse Hemoglobin. Science, 2013, 340, 1324-1327.	6.0	174
3	Repeated elevational transitions in hemoglobin function during the evolution of Andean hummingbirds. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20669-20674.	3.3	149
4	High-altitude adaptations in vertebrate hemoglobins. Respiratory Physiology and Neurobiology, 2007, 158, 132-142.	0.7	136
5	Cationic control of O2 affinity in lugworm erythrocruorin. Nature, 1981, 292, 386-387.	13.7	121
6	Functional adaptation and its molecular basis in vertebrate hemoglobins, neuroglobins and cytoglobins. Respiratory Physiology and Neurobiology, 2004, 144, 141-159.	0.7	117
7	Convergent Evolution of Hemoglobin Function in High-Altitude Andean Waterfowl Involves Limited Parallelism at the Molecular Sequence Level. PLoS Genetics, 2015, 11, e1005681.	1.5	103
8	Epistasis Constrains Mutational Pathways of Hemoglobin Adaptation in High-Altitude Pikas. Molecular Biology and Evolution, 2015, 32, 287-298.	3.5	95
9	Intraspecific Polymorphism, Interspecific Divergence, and the Origins of Function-Altering Mutations in Deer Mouse Hemoglobin. Molecular Biology and Evolution, 2015, 32, 978-997.	3.5	88
10	Contribution of a mutational hot spot to hemoglobin adaptation in high-altitude Andean house wrens. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13958-13963.	3.3	86
11	Molecular basis of hemoglobin adaptation in the high-flying bar-headed goose. PLoS Genetics, 2018, 14, e1007331.	1.5	58
12	Gene Duplication and the Evolution of Hemoglobin Isoform Differentiation in Birds. Journal of Biological Chemistry, 2012, 287, 37647-37658.	1.6	54
13	The Cathodic Hemoglobin of Anguilla anguilla. Journal of Biological Chemistry, 1995, 270, 18897-18902.	1.6	53
14	Stability-Mediated Epistasis Restricts Accessible Mutational Pathways in the Functional Evolution of Avian Hemoglobin. Molecular Biology and Evolution, 2017, 34, 1240-1251.	3.5	49
15	The Anodic Hemoglobin of Anguilla anguilla. Journal of Biological Chemistry, 1997, 272, 15628-15635.	1.6	46
16	Hemoglobin function and allosteric regulation in semi-fossorial rodents (family Sciuridae) with different altitudinal ranges. Journal of Experimental Biology, 2013, 216, 4264-4271.	0.8	40
17	Genetically based low oxygen affinities of felid hemoglobins: lack of biochemical adaptation to high-altitude hypoxia in the snow leopard. Journal of Experimental Biology, 2015, 218, 2402-2409.	0.8	40
18	Lack of conventional oxygen-linked proton and anion binding sites does not impair allosteric regulation of oxygen binding in dwarf caiman hemoglobin. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R300-R312.	0.9	33

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19	Oxygenation properties and isoform diversity of snake hemoglobins. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R1178-R1191.	0.9	29
20	Allosteric mechanisms underlying the adaptive increase in hemoglobin-oxygen affinity of the bar-headed goose. Journal of Experimental Biology, 2018, 221, .	0.8	29
21	The hemoglobin system of the hagfish Myxine glutinosa: aggregation state and functional properties. BBA - Proteins and Proteomics, 1995, 1249, 109-115.	2.1	27
22	Structure and function of crocodilian hemoglobins and allosteric regulation by chloride, ATP, and CO ₂ . American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R657-R667.	0.9	12
23	Evolutionary History of the Globin Gene Family in Annelids. Genome Biology and Evolution, 2020, 12, 1719-1733.	1.1	8
24	Effect of NH2-terminal acetylation on the oxygenation properties of vertebrate haemoglobin. Biochemical Journal, 2020, 477, 3839-3850.	1.7	6
25	Ontogeny of hemoglobin‑oxygen binding and multiplicity in the obligate air-breathing fish Arapaima gigas. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 268, 111190.	0.8	1