

Anna Y Bogdanova

List of Publications by Year in descending order

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107
papers

3,663
citations

147801

31
h-index

149698

56
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115
all docs

115
docs citations

115
times ranked

4894
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vitro Erythropoiesis at Different pO ₂ Induces Adaptations That Are Independent of Prior Systemic Exposure to Hypoxia. <i>Cells</i> , 2022, 11, 1082.	4.1	3
2	Continuous Percoll Gradient Centrifugation of Erythrocytes—Explanation of Cellular Bands and Compromised Age Separation. <i>Cells</i> , 2022, 11, 1296.	4.1	6
3	Ionotropic glutamate receptors in platelets: opposing effects and a unifying hypothesis. <i>Platelets</i> , 2021, 32, 998-1008.	2.3	6
4	Lysophosphatidic Acid-Activated Calcium Signaling Is Elevated in Red Cells from Sickle Cell Disease Patients. <i>Cells</i> , 2021, 10, 456.	4.1	12
5	Donor Age and Red Cell Age Contribute to the Variance in Lorrca Indices in Healthy Donors for Next Generation Ektacytometry: A Pilot Study. <i>Frontiers in Physiology</i> , 2021, 12, 639722.	2.8	12
6	Absence of neocytolysis in humans returning from a 3-week high-altitude sojourn. <i>Acta Physiologica</i> , 2021, 232, e13647.	3.8	26
7	Fourier Transform of Percoll Gradients Boosts CNN Classification of Hereditary Hemolytic Anemias. , 2021, , .		1
8	Of mice and men¹: How to achieve a better life with lower total Hb mass after returning from hypoxia to normoxia. (response to Song and colleagues). <i>Acta Physiologica</i> , 2021, 233, e13720.	3.8	3
9	Hydration of methemoglobin studied by in silico modeling and dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 155, 015101.	3.0	4
10	Microwave Dielectric Response of Water in Solutions of Hemoglobin in Different States. , 2021, , .		1
11	“So is science ¹ : No evidence for<i>neocytolysis</i>on descending the mountains (Response to Rice and Gunga). <i>Acta Physiologica</i> , 2021, 233, e13709.	3.8	3
12	Potential Factors for Poor Reproducibility of In Vitro Hemolysis Testing. <i>ASAIO Journal</i> , 2021, Publish Ahead of Print, .	1.6	1
13	Density, heterogeneity and deformability of red cells as markers of clinical severity in hereditary spherocytosis. <i>Haematologica</i> , 2020, 105, 338-347.	3.5	27
14	A pilot clinical phase II trial MemSID: Acute and durable changes of red blood cells of sickle cell disease patients on memantine treatment. <i>EJHaem</i> , 2020, 1, 23-34.	1.0	9
15	Na ⁺ controls hypoxic signalling by the mitochondrial respiratory chain. <i>Nature</i> , 2020, 586, 287-291.	27.8	139
16	Early Career Scientists™ Guide to the Red Blood Cell “ Don™t Panic!. <i>Frontiers in Physiology</i> , 2020, 11, 588.	2.8	8
17	MEMSID: Results From a Phase 2 Pilot Study on Memantine Treatment for Sickle Cell Disease. <i>HemaSphere</i> , 2020, 4, e452.	2.7	5
18	Oxygenation state of hemoglobin defines dynamics of water molecules in its vicinity. <i>Journal of Chemical Physics</i> , 2020, 153, 135101.	3.0	10

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19	Heterogeneity of Red Blood Cells: Causes and Consequences. <i>Frontiers in Physiology</i> , 2020, 11, 392.	2.8	29
20	N-Methyl-D-Aspartate Receptors in Hematopoietic Cells: What Have We Learned?. <i>Frontiers in Physiology</i> , 2020, 11, 577.	2.8	10
21	Calcium Channels and Calcium-Regulated Channels in Human Red Blood Cells. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1131, 625-648.	1.6	43
22	Attention Based Multiple Instance Learning for Classification of Blood Cell Disorders. <i>Lecture Notes in Computer Science</i> , 2020, , 246-256.	1.3	13
23	Cardos channelopathy: functional analysis of a novel <i>KCNN4</i> variant. <i>Blood Advances</i> , 2020, 4, 6336-6341.	5.2	17
24	Editorial: Red Blood Cells at the Mount of Truth: Highlights of the 22nd Meeting of the European Red Cell Research Society. <i>Frontiers in Physiology</i> , 2020, 11, 607456.	2.8	0
25	Influence of Equimolar Doses of Beetroot Juice and Sodium Nitrate on Time Trial Performance in Handcycling. <i>Nutrients</i> , 2019, 11, 1642.	4.1	11
26	Aging Markers in Equine Red Blood Cells. <i>Frontiers in Physiology</i> , 2019, 10, 893.	2.8	6
27	Glutaraldehyde – A Subtle Tool in the Investigation of Healthy and Pathologic Red Blood Cells. <i>Frontiers in Physiology</i> , 2019, 10, 514.	2.8	57
28	Red Blood Cell Membrane Conductance in Hereditary Haemolytic Anaemias. <i>Frontiers in Physiology</i> , 2019, 10, 386.	2.8	8
29	Multiclass Deep Active Learning for Detecting Red Blood Cell Subtypes in Brightfield Microscopy. <i>Lecture Notes in Computer Science</i> , 2019, , 685-693.	1.3	24
30	A Previously Unrecognized Ca^{2+} -Inhibited Nonselective Cation Channel in Red Blood Cells. <i>HemaSphere</i> , 2018, 2, e146.	2.7	8
31	Editorial: The Red Cell Life-Cycle From Erythropoiesis to Clearance. <i>Frontiers in Physiology</i> , 2018, 9, 1537.	2.8	2
32	The Red Blood Cells on the Move!. <i>Frontiers in Physiology</i> , 2018, 9, 474.	2.8	1
33	Squeezing for Life – Properties of Red Blood Cell Deformability. <i>Frontiers in Physiology</i> , 2018, 9, 656.	2.8	213
34	Mitochondrial complex I deactivation is related to superoxide production in acute hypoxia. <i>Redox Biology</i> , 2017, 12, 1040-1051.	9.0	92
35	Cysteine residues 244 and 458–459 within the catalytic subunit of Na,K-ATPase control the enzyme's hydrolytic and signaling function under hypoxic conditions. <i>Redox Biology</i> , 2017, 13, 310-319.	9.0	25
36	NMDA Receptor Activity in Circulating Red Blood Cells: Methods of Detection. <i>Methods in Molecular Biology</i> , 2017, 1677, 265-282.	0.9	14

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37	â€œGardos Channelopathyâ€™™: a variant of hereditary Stomatocytosis with complex molecular regulation. <i>Scientific Reports</i> , 2017, 7, 1744.	3.3	68
38	Does Erythropoietin Regulate TRPC Channels in Red Blood Cells?. <i>Cellular Physiology and Biochemistry</i> , 2017, 41, 1219-1228.	1.6	16
39	Is Increased Intracellular Calcium in Red Blood Cells a Common Component in the Molecular Mechanism Causing Anemia?. <i>Frontiers in Physiology</i> , 2017, 8, 673.	2.8	47
40	Red Cell Properties after Different Modes of Blood Transportation. <i>Frontiers in Physiology</i> , 2016, 7, 288.	2.8	54
41	â€œOxygen Sensingâ€™by Na,K-ATPase: These Miraculous Thiols. <i>Frontiers in Physiology</i> , 2016, 7, 314.	2.8	70
42	Direct interaction of beta-amyloid with Na,K-ATPase as a putative regulator of the enzyme function. <i>Scientific Reports</i> , 2016, 6, 27738.	3.3	34
43	Cardiac N-methyl d-aspartate Receptors as a Pharmacological Target. <i>Journal of Cardiovascular Pharmacology</i> , 2016, 68, 356-373.	1.9	15
44	Comparing the impact of an acute exercise bout on plasma amino acid composition, intraerythrocytic Ca ²⁺ handling, and red cell function in athletes and untrained subjects. <i>Cell Calcium</i> , 2016, 60, 235-244.	2.4	25
45	N-Nitrosamine-{cis-Re[CO] ₂ } ²⁺ cobalamin conjugates as mixed CO/NO-releasing molecules. <i>Dalton Transactions</i> , 2016, 45, 1504-1513.	3.3	19
46	Is beetroot juice more effective than sodium nitrate? The effects of equimolar nitrate dosages of nitrate-rich beetroot juice and sodium nitrate on oxygen consumption during exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2016, 41, 421-429.	1.9	51
47	Cardiac remodeling in GÎ±q and GÎ±11 knockout mice. <i>International Journal of Cardiology</i> , 2016, 202, 836-845.	1.7	7
48	Moderate hypothermia during <i>ex vivo</i> machine perfusion promotes recovery of hearts donated after cardiocirculatory death. <i>European Journal of Cardio-thoracic Surgery</i> , 2016, 49, 25-31.	1.4	27
49	Functional plasticity of the <i>N</i> -methyl-d-aspartate receptor in differentiating human erythroid precursor cells. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C993-C1007.	4.6	11
50	Washing stored red blood cells in an albumin solution improves their morphologic and hemorheologic properties. <i>Transfusion</i> , 2015, 55, 1872-1881.	1.6	51
51	Oxygen sensing by the Na,K-ATPase: the cellular mechanism unraveled. <i>Free Radical Biology and Medicine</i> , 2015, 86, S15.	2.9	0
52	Recovery of donor hearts after circulatory death with normothermic extracorporeal machine perfusionâ€. <i>European Journal of Cardio-thoracic Surgery</i> , 2015, 47, 173-179.	1.4	16
53	Gardos Channel Mutation Is Associated with Hereditary Dehydrate Stomatocytosis: a Complex Channelopathy. <i>Blood</i> , 2015, 126, 3333-3333.	1.4	2
54	Na ⁺ Methyl Dâ€Aspartate (NMDA) Receptors in Human Red Blood Cells in Health and Disease. <i>FASEB Journal</i> , 2015, 29, 845.7.	0.5	0

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55	Regulation of red cell life-span, erythropoiesis, senescence, and clearance. <i>Frontiers in Physiology</i> , 2014, 5, 269.	2.8	17
56	Red blood cells of sickle cell disease patients exhibit abnormally high abundance of N-methyl-D-aspartate receptors mediating excessive calcium uptake. <i>British Journal of Haematology</i> , 2014, 167, 252-264.	2.5	35
57	Acute hypoxia produces a superoxide burst in cells. <i>Free Radical Biology and Medicine</i> , 2014, 71, 146-156.	2.9	106
58	Multikinase inhibitor sorafenib prevents pressure overload-induced left ventricular hypertrophy in rats by blocking the c-Raf/ERK1/2 signaling pathway. <i>Journal of Cardiothoracic Surgery</i> , 2014, 9, 81.	1.1	8
59	Live-Fibroblast IR Imaging of a Cytoprotective PhotoCORM Activated with Visible Light. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 6719-6731.	6.4	70
60	Lysophosphatidic Acid Signalling in Red Blood Cells. <i>Biophysical Journal</i> , 2013, 104, 610a-611a.	0.5	0
61	Serotonin in the heart: the beauty and the beast. <i>Acta Physiologica</i> , 2013, 207, 206-207.	3.8	1
62	N-methyl-D-aspartate receptors in human erythroid precursor cells and in circulating red blood cells contribute to the intracellular calcium regulation. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C1123-C1138.	4.6	65
63	Red cell investigations: Art and artefacts. <i>Blood Reviews</i> , 2013, 27, 91-101.	5.7	74
64	Epo and Non-hematopoietic Cells: What Do We Know?. <i>Methods in Molecular Biology</i> , 2013, 982, 13-41.	0.9	50
65	Mechanisms tagging senescent red blood cells for clearance in healthy humans. <i>Frontiers in Physiology</i> , 2013, 4, 387.	2.8	162
66	Calcium in Red Blood Cells—A Perilous Balance. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9848-9872.	4.1	204
67	Morphologically Homogeneous Red Blood Cells Present a Heterogeneous Response to Hormonal Stimulation. <i>PLoS ONE</i> , 2013, 8, e67697.	2.5	36
68	Cross talk between S-nitrosylation and S-glutathionylation in control of the Na,K-ATPase regulation in hypoxic heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H1332-H1343.	3.2	31
69	S-Glutathionylation of the Na,K-ATPase Catalytic α Subunit Is a Determinant of the Enzyme Redox Sensitivity. <i>Journal of Biological Chemistry</i> , 2012, 287, 32195-32205.	3.4	107
70	17 η -rhenium dicarbonyl CO-releasing molecules on a cobalamin scaffold for biological application. <i>Dalton Transactions</i> , 2012, 41, 370-378.	3.3	93
71	Calcium Signalling in Red Blood Cells. <i>Biophysical Journal</i> , 2011, 100, 518a.	0.5	0
72	Activation of N-methyl D-aspartate (NMDA) receptors has no influence on rheological properties of erythrocytes. <i>Clinical Hemorheology and Microcirculation</i> , 2011, 49, 307-313.	1.7	7

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73	Interventricular heterogeneity in rat heart responses to hypoxia: the tuning of glucose metabolism, ion gradients, and function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1645-H1652.	3.2	15
74	Cryohydrocytosis: increased activity of cation carriers in red cells from a patient with a band 3 mutation. <i>Haematologica</i> , 2010, 95, 189-198.	3.5	28
75	Oxygen-induced regulation of the intracellular glutathione levels in erythrocytes. <i>European Journal of Applied Physiology</i> , 2010, 109, 575-576.	2.5	0
76	Analysis of Exhaled Breath Condensate in a Mixed Population of Psittacine Birds. , 2010, 24, 185-191.		3
77	Functional NMDA receptors in rat erythrocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C1315-C1325.	4.6	60
78	CO Releasing Properties and Cytoprotective Effect of <i>cis-trans</i> -[Re ^{II} (CO) ₂ Br ₂ L ₂] ⁺ Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 7313-7322.	4.0	118
79	First Aid Kit for Hypoxic Survival: Sensors and Strategies. <i>Physiological and Biochemical Zoology</i> , 2010, 83, 753-763.	1.5	30
80	Erythropoietin protects from reperfusion-induced myocardial injury by enhancing coronary endothelial nitric oxide production. <i>European Journal of Cardio-thoracic Surgery</i> , 2009, 35, 839-846.	1.4	32
81	Erythropoietin activates nitric oxide synthase in murine erythrocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C378-C388.	4.6	51
82	Moderate altitude but not additional endurance training increases markers of oxidative stress in exhaled breath condensate. <i>European Journal of Applied Physiology</i> , 2009, 106, 599-604.	2.5	25
83	Oxygen-dependent ion transport in erythrocytes. <i>Acta Physiologica</i> , 2009, 195, 305-319.	3.8	33
84	Activation of a HIF ¹ -PPAR ³ Axis Underlies the Integration of Glycolytic and Lipid Anabolic Pathways in Pathologic Cardiac Hypertrophy. <i>Cell Metabolism</i> , 2009, 9, 512-524.	16.2	342
85	Amiodarone Inhibits Arterial Thrombus Formation and Tissue Factor Translation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 2231-2238.	2.4	21
86	Abortion in Mice with Excessive Erythrocytosis Is Due to Impaired Arteriogenesis of the Uterine Arcade1. <i>Biology of Reproduction</i> , 2008, 78, 1049-1057.	2.7	10
87	Oxygen-induced Regulation of Na/K ATPase in Cerebellar Granule Cells. <i>Journal of General Physiology</i> , 2007, 130, 389-398.	1.9	37
88	Enhanced erythro-phagocytosis in polycythemic mice overexpressing erythropoietin. <i>Blood</i> , 2007, 110, 762-769.	1.4	39
89	Isolated, autologous blood-perfused heart: replacement of heterotopic heart transplantation. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2007, 24 Spec No, 75-6.	1.5	0
90	Na-K-ATPase in rat cerebellar granule cells is redox sensitive. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R916-R925.	1.8	69

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91	Electroporation-mediated interleukin-10 overexpression in skeletal muscle reduces acute rejection in rat cardiac allografts. <i>Journal of Gene Medicine</i> , 2006, 8, 242-248.	2.8	16
92	Hypoxic responses of Na ⁺ /K ⁺ ATPase in trout hepatocytes. <i>Journal of Experimental Biology</i> , 2005, 208, 1793-1801.	1.7	35
93	Neuroprotection by hypoxic preconditioning: HIF-1 and erythropoietin protect from retinal degeneration. <i>Seminars in Cell and Developmental Biology</i> , 2005, 16, 531-538.	5.0	81
94	Pivotal Role of Reduced Glutathione in Oxygen-induced Regulation of the Na ⁺ /K ⁺ Pump in Mouse Erythrocyte Membranes. <i>Journal of Membrane Biology</i> , 2003, 195, 33-42.	2.1	22
95	Intracellular pH regulation in rainbow trout (<i>Oncorhynchus mykiss</i>) hepatocytes: the activity of sodium/proton exchange is oxygen-dependent. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2003, 173, 301-308.	1.5	9
96	Oxygen dependency of the adrenergic Na/H exchange in rainbow trout erythrocytes is diminished by a hydroxyl radical scavenger. <i>Acta Physiologica Scandinavica</i> , 2003, 178, 149-154.	2.2	14
97	Molecular mechanisms of oxygen-induced regulation of Na ⁺ /K ⁺ pump. <i>Advances in Experimental Medicine and Biology</i> , 2003, 536, 231-8.	1.6	5
98	Copper ion redox state is critical for its effects on ion transport pathways and methaemoglobin formation in trout erythrocytes. <i>Chemico-Biological Interactions</i> , 2002, 139, 43-59.	4.0	22
99	Adrenergic Stimulation of Volume-Sensitive Chloride Transport in Lamprey Erythrocytes. <i>Physiological and Biochemical Zoology</i> , 2001, 74, 45-51.	1.5	2
100	Reactive Oxygen Species Regulate Oxygen-Sensitive Potassium Flux in Rainbow Trout Erythrocytes. <i>Journal of General Physiology</i> , 2001, 117, 181-190.	1.9	32
101	Copper Effects on Ion Transport across Lamprey Erythrocyte Membrane: Cl ⁻ /OH ⁻ Exchange Induced by Cuprous Ions. <i>Toxicology and Applied Pharmacology</i> , 1999, 159, 204-213.	2.8	18
102	Intracellular pH regulation of rainbow trout and carp thrombocytes. <i>Fish Physiology and Biochemistry</i> , 1999, 21, 269-275.	2.3	3
103	Dehydroabiatic acid, a major effluent component of paper and pulp industry, decreases erythrocyte pH in lamprey (<i>Lampetra fluviatilis</i>). <i>Aquatic Toxicology</i> , 1998, 43, 111-120.	4.0	11
104	Furosemide and DIDS penetration into Langmuir films of stearic acid. The influence of low ionic strength and pH. <i>Colloids and Surfaces B: Biointerfaces</i> , 1995, 5, 205-211.	5.0	3
105	Sodium transport in red blood cells of lamprey <i>Lampetra fluviatilis</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1992, 103, 763-766.	0.6	12
106	Evidence for stimulation of the K-Cl cotransport system by phenazine methosulfate. <i>Biochemical Pharmacology</i> , 1992, 43, 2275-2279.	4.4	10
107	Do fluorocarbons substantially increase transdermal oxygen delivery? A proof-of-principle study in mice. <i>Open Research Europe</i> , 0, 1, 39.	2.0	0