

Robert A Linsenmeier

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,559
citations

279798

23
h-index

223800

46
g-index

59
all docs

59
docs citations

59
times ranked

2596
citing authors

#	ARTICLE	IF	CITATIONS
1	Retinal Oxygen. JAMA Ophthalmology, 2003, 121, 547.	2.4	481
2	Oxygen distribution and consumption in the macaque retina. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1696-H1704.	3.2	203
3	Retinal oxygen: from animals to humans. Progress in Retinal and Eye Research, 2017, 58, 115-151.	15.5	170
4	Visible light optical coherence tomography measures retinal oxygen metabolic response to systemic oxygenation. Light: Science and Applications, 2015, 4, e334-e334.	16.6	133
5	A combined method to quantify the retinal metabolic rate of oxygen using photoacoustic ophthalmoscopy and optical coherence tomography. Scientific Reports, 2014, 4, 6525.	3.3	106
6	Association of Diabetic Macular Nonperfusion With Outer Retinal Disruption on Optical Coherence Tomography. JAMA Ophthalmology, 2015, 133, 1036.	2.5	105
7	Mathematical models of the spatial distribution of retinal oxygen tension and consumption, including changes upon illumination. Annals of Biomedical Engineering, 1990, 18, 19-36.	2.5	100
8	Retinal Oxygenation and Oxygen Metabolism in Abyssinian Cats with a Hereditary Retinal Degeneration. , 2006, 47, 3683.		82
9	Is obesity associated with lower body temperatures? Core temperature: a forgotten variable in energy balance. Metabolism: Clinical and Experimental, 2009, 58, 871-876.	3.4	60
10	Oxygen consumption and distribution in the Long-Evans rat retina. Experimental Eye Research, 2012, 102, 50-58.	2.6	57
11	Retinal oxygen extraction in humans. Scientific Reports, 2015, 5, 15763.	3.3	56
12	Effects of Photocoagulation on Intraretinal P ₂ in Cat. , 2008, 49, 380.		52
13	Improved Macular Capillary Flow on Optical Coherence Tomography Angiography After Panretinal Photocoagulation for Proliferative Diabetic Retinopathy. American Journal of Ophthalmology, 2019, 206, 217-227.	3.3	48
14	Estimation of retinal oxygen transients from measurements made in the vitreous humor. Experimental Eye Research, 1981, 32, 369-379.	2.6	45
15	Retinal Blood Velocity and Flow in Early Diabetes and Diabetic Retinopathy Using Adaptive Optics Scanning Laser Ophthalmoscopy. Journal of Clinical Medicine, 2019, 8, 1165.	2.4	42
16	Fifty Years of Biomedical Engineering Undergraduate Education. Annals of Biomedical Engineering, 2020, 48, 1590-1615.	2.5	42
17	24h Core Temperature in Obese and Lean Men and Women. Obesity, 2012, 20, 1585-1590.	3.0	41
18	Quantification of in vivo anaerobic metabolism in the normal cat retina through intraretinal pH measurements. Visual Neuroscience, 2002, 19, 793-806.	1.0	38

#	ARTICLE	IF	CITATIONS
19	Hyperoxia Improves Oxygen Consumption in the Detached Feline Retina. , 2007, 48, 1335.		37
20	Core Competencies for Undergraduates in Bioengineering and Biomedical Engineering: Findings, Consequences, and Recommendations. Annals of Biomedical Engineering, 2020, 48, 905-912.	2.5	37
21	Effect of Hypoxemia and Hyperglycemia on pH in the Intact Cat Retina. JAMA Ophthalmology, 2005, 123, 1684.	2.4	32
22	What makes a biomedical engineer?. IEEE Engineering in Medicine and Biology Magazine, 2003, 22, 32-38.	0.8	31
23	Intravenous Immunomodulatory Nanoparticle Treatment for Traumatic Brain Injury. Annals of Neurology, 2020, 87, 442-455.	5.3	29
24	Spontaneous fluctuations in oxygen tension in the cat retina. Microvascular Research, 1992, 44, 73-84.	2.5	28
25	Intraretinal pH in Diabetic Cats. Current Eye Research, 2005, 30, 229-240.	1.5	28
26	Increased Retinal Oxygen Metabolism Precedes Microvascular Alterations in Type 1 Diabetic Mice. , 2017, 58, 981.		27
27	Light-evoked oxygen responses in the isolated toad retina. Experimental Eye Research, 1995, 61, 73-81.	2.6	26
28	Intraretinal analysis of the <i>a</i> -wave of the electroretinogram (ERG) in dark-adapted intact cat retina. Visual Neuroscience, 2001, 18, 353-363.	1.0	26
29	Decreased Circulation in the Feline Choriocapillaris Underlying Retinal Photocoagulation Lesions. , 2011, 52, 3398.		24
30	Retinal arterial occlusion leads to acidosis in the cat. Experimental Eye Research, 2005, 80, 527-533.	2.6	23
31	Diabetes changes expression of genes related to glutamate neurotransmission and transport in the Long-Evans rat retina. Molecular Vision, 2013, 19, 1538-53.	1.1	23
32	Effect of Acute Hyperglycemia on Oxygen and Oxidative Metabolism in the Intact Cat Retina. , 2003, 44, 745.		22
33	Isovolemic hemodilution increases retinal tissue oxygen tension. Graefe's Archive for Clinical and Experimental Ophthalmology, 1996, 234, 688-694.	1.9	19
34	Spatial Variation of the Local Tissue Oxygen Diffusion Coefficient Measured in situ in the Cat Retina and Cornea. Advances in Experimental Medicine and Biology, 1990, 277, 127-136.	1.6	19
35	Oxygen consumption in the isolated toad retina. Experimental Eye Research, 1995, 61, 63-72.	2.6	18
36	Oxygenation of the cat primary visual cortex. Journal of Applied Physiology, 1999, 86, 1490-1496.	2.5	18

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37	Metabolic Responses to Light in Monkey Photoreceptors. <i>Current Eye Research</i> , 2010, 35, 510-518.	1.5	18
38	Increased Intraretinal PO ₂ in Short-Term Diabetic Rats. <i>Diabetes</i> , 2014, 63, 4338-4342.	0.6	18
39	Gene expression patterns in hypoxic and post-hypoxic adult rat retina with special reference to the NMDA receptor and its interactome. <i>Molecular Vision</i> , 2009, 15, 296-311.	1.1	18
40	Emixustat Reduces Metabolic Demand of Dark Activity in the Retina. , 2019, 60, 4924.		16
41	Development of diabetes-induced acidosis in the rat retina. <i>Experimental Eye Research</i> , 2016, 149, 16-25.	2.6	15
42	The logic of ionic homeostasis: Cations are for voltage, but not for volume. <i>PLoS Computational Biology</i> , 2019, 15, e1006894.	3.2	15
43	Brain tissue oxygen regulation in awake and anesthetized neonates. <i>Neuropharmacology</i> , 2018, 135, 368-375.	4.1	14
44	Hypoglycemia increases the sensitivity of the cat electroretinogram to hypoxemia. <i>Visual Neuroscience</i> , 2001, 18, 983-993.	1.0	13
45	Retinal pH and Acid Regulation During Metabolic Acidosis. <i>Current Eye Research</i> , 2018, 43, 902-912.	1.5	13
46	Perfluorocarbon emulsion improves oxygenation of the cat primary visual cortex. <i>Journal of Applied Physiology</i> , 1999, 86, 1497-1504.	2.5	12
47	Hyperoxia Promotes Electroretinogram Recovery after Retinal Artery Occlusion in Cats. , 2004, 45, 3690.		10
48	Effect of Carbogen (95% O ₂ /5% CO ₂) on Retinal Oxygenation in Dark-Adapted Anesthetized Cats. <i>Current Eye Research</i> , 2007, 32, 699-707.	1.5	10
49	Light-induced pH changes in the intact retinae of normal and early diabetic rats. <i>Experimental Eye Research</i> , 2016, 145, 148-157.	2.6	10
50	Spontaneous Fluctuations of PO ₂ in the Rabbit Somatosensory Cortex. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 311-317.	1.6	10
51	Diabetes Alters pH Control in Rat Retina. , 2019, 60, 723.		10
52	Effect of isoflurane on brain tissue oxygen tension and cerebral autoregulation in rabbits. <i>Neuroscience Letters</i> , 2012, 524, 116-118.	2.1	9
53	K ⁺ -dependent M ¹ / ₄ ller cell-generated components of the electroretinogram. <i>Visual Neuroscience</i> , 2021, 38, E010.	1.0	8
54	Intravenous ketamine for long term anesthesia in rats. <i>Heliyon</i> , 2020, 6, e05686.	3.2	5

#	ARTICLE	IF	CITATIONS
55	Extracellular K ⁺ reflects light-evoked changes in retinal energy metabolism. Experimental Eye Research, 2022, 221, 109133.	2.6	3
56	Instructor and Course Changes Resulting from an HPL-inspired Use of Personal Response Systems. , 2006, , .		2
57	Work in progress - assessment of an electronic learning management system In bioengineering. Proceedings - Frontiers in Education Conference, FIE, 2007, , .	0.0	2
58	In memory of Christina Enroth-Cugell, distinguished vision scientist. Experimental Eye Research, 2016, 151, 45-46.	2.6	0
59	Retinal Bioengineering. , 2020, , 581-637.		0