

Trevor D Lamb

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7323939/publications.pdf>

Version: 2024-02-01

34
papers

1,747
citations

567281

15
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the vertebrate eye: opsins, photoreceptors, retina and eye cup. <i>Nature Reviews Neuroscience</i> , 2007, 8, 960-976.	10.2	400
2	Evolution of phototransduction, vertebrate photoreceptors and retina. <i>Progress in Retinal and Eye Research</i> , 2013, 36, 52-119.	15.5	306
3	Phototransduction, Dark Adaptation, and Rhodopsin Regeneration The Proctor Lecture. , 2006, 47, 5138.		230
4	A single-cell transcriptome atlas of the adult human retina. <i>EMBO Journal</i> , 2019, 38, e100811.	7.8	185
5	The Gain of Rod Phototransduction. <i>Neuron</i> , 2000, 27, 525-537.	8.1	176
6	Evolution of vertebrate retinal photoreception. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2911-2924.	4.0	57
7	Evolution of Vertebrate Phototransduction: Cascade Activation. <i>Molecular Biology and Evolution</i> , 2016, 33, 2064-2087.	8.9	44
8	The Origin of the Vertebrate Eye. <i>Evolution: Education and Outreach</i> , 2008, 1, 415-426.	0.8	35
9	It takes two transducins to activate the cGMP-phosphodiesterase 6 in retinal rods. <i>Open Biology</i> , 2018, 8, .	3.6	34
10	Evolution of the genes mediating phototransduction in rod and cone photoreceptors. <i>Progress in Retinal and Eye Research</i> , 2020, 76, 100823.	15.5	27
11	Photoreceptor physiology and evolution: cellular and molecular basis of rod and cone phototransduction. <i>Journal of Physiology</i> , 2022, 600, 4585-4601.	2.9	26
12	The evolution of phototransduction and eyes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2791-2793.	4.0	25
13	Evolution of the vertebrate phototransduction cascade activation steps. <i>Developmental Biology</i> , 2017, 431, 77-92.	2.0	25
14	Implications of dimeric activation of PDE6 for rod phototransduction. <i>Open Biology</i> , 2018, 8, .	3.6	20
15	Visual Opsin Diversity in Sharks and Rays. <i>Molecular Biology and Evolution</i> , 2020, 37, 811-827.	8.9	20
16	Topographic Rod Recovery Profiles after a Prolonged Dark Adaptation in Subjects with Reticular Pseudodrusen. <i>Ophthalmology Retina</i> , 2018, 2, 1206-1217.	2.4	18
17	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. <i>PLoS Biology</i> , 2020, 18, e3000750.	5.6	18
18	Analysis of Paralogs, Origin of the Vertebrate Karyotype, and Ancient Chromosomes Retained in Extant Species. <i>Genome Biology and Evolution</i> , 2021, 13, .	2.5	17

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19	Quantitative modeling of the molecular steps underlying shut-off of rhodopsin activity in rod phototransduction. <i>Molecular Vision</i> , 2016, 22, 674-96.	1.1	14
20	Evolution of the calcium feedback steps of vertebrate phototransduction. <i>Open Biology</i> , 2018, 8, 180119.	3.6	12
21	Modelling the initial phase of the human rod photoreceptor response to the onset of steady illumination. <i>Documenta Ophthalmologica</i> , 2012, 124, 125-131.	2.2	11
22	Evolution of the shut-off steps of vertebrate phototransduction. <i>Open Biology</i> , 2018, 8, 170232.	3.6	10
23	A quantitative account of mammalian rod phototransduction with PDE6 dimeric activation: responses to bright flashes. <i>Open Biology</i> , 2020, 10, 190241.	3.6	10
24	The kinetics of regeneration of rhodopsin under enzyme-limited availability of 11-cis retinoid. <i>Vision Research</i> , 2015, 110, 23-33.	1.4	8
25	Phototransduction gain at the G-protein, transducin, and effector protein, phosphodiesterase-6, stages in retinal rods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8653-8654.	7.1	6
26	Light Adaptation in Photoreceptors. , 2011, , 429-442.		5
27	Evolution of the eye. Scientists now have a clear vision of how our notoriously complex eye came to be. <i>Scientific American</i> , 2011, 305, 64-9.	1.0	5
28	Functional Imaging of the Outer Retinal Complex using High Fidelity Imaging Retinal Densitometry. <i>Scientific Reports</i> , 2020, 10, 4494.	3.3	3
29	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
30	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
31	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
32	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
33	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0
34	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. , 2020, 18, e3000750.		0