

Trevor J Wardill

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

8,217
citations

394421

19
h-index

434195

31
g-index

36
all docs

36
docs citations

36
times ranked

11348
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive fluorescent proteins for imaging neuronal activity. <i>Nature</i> , 2013, 499, 295-300.	27.8	5,490
2	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. <i>Journal of Neuroscience</i> , 2012, 32, 13819-13840.	3.6	1,099
3	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 2.	2.9	629
4	Compound eyes and retinal information processing in miniature dipteran species match their specific ecological demands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4224-4229.	7.1	113
5	Multiple Spectral Inputs Improve Motion Discrimination in the <i>Drosophila</i> Visual System. <i>Science</i> , 2012, 336, 925-931.	12.6	107
6	A Novel Interception Strategy in a Miniature Robber Fly with Extreme Visual Acuity. <i>Current Biology</i> , 2017, 27, 854-859.	3.9	72
7	A Neuron-Based Screening Platform for Optimizing Genetically-Encoded Calcium Indicators. <i>PLoS ONE</i> , 2013, 8, e77728.	2.5	66
8	The structure–function relationships of a natural nanoscale photonic device in cuttlefish chromatophores. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130942.	3.4	59
9	Neural control of tuneable skin iridescence in squid. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4243-4252.	2.6	57
10	The spectral sensitivity of <i>Drosophila</i> photoreceptors. <i>Scientific Reports</i> , 2020, 10, 18242.	3.3	52
11	Cuttlefish use stereopsis to strike at prey. <i>Science Advances</i> , 2020, 6, eaay6036.	10.3	46
12	Network Adaptation Improves Temporal Representation of Naturalistic Stimuli in <i>Drosophila</i> Eye: I Dynamics. <i>PLoS ONE</i> , 2009, 4, e4307.	2.5	46
13	Interception by two predatory fly species is explained by a proportional navigation feedback controller. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180466.	3.4	43
14	The importance of species identity in the biocontrol process: identifying the subspecies of <i>Acacia nilotica</i> (Leguminosae: Mimosoideae) by genetic distance and the implications for biological control. <i>Journal of Biogeography</i> , 2005, 32, 2145-2159.	3.0	42
15	Overexpressing Temperature-Sensitive Dynamin Decelerates Phototransduction and Bundles Microtubules in <i>Drosophila</i> Photoreceptors. <i>Journal of Neuroscience</i> , 2009, 29, 14199-14210.	3.6	34
16	Neural Control of Dynamic 3-Dimensional Skin Papillae for Cuttlefish Camouflage. <i>iScience</i> , 2018, 1, 24-34.	4.1	32
17	Labeling and Confocal Imaging of Neurons in Thick Invertebrate Tissue Samples. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.prot069625.	0.3	31
18	Network Adaptation Improves Temporal Representation of Naturalistic Stimuli in <i>Drosophila</i> Eye: II Mechanisms. <i>PLoS ONE</i> , 2009, 4, e4306.	2.5	31

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19	Chromatophore radial muscle fibers anchor in flexible squid skin. <i>Invertebrate Biology</i> , 2013, 132, 120-132.	0.9	25
20	An Unexpected Diversity of Photoreceptor Classes in the Longfin Squid, <i>Doryteuthis pealeii</i> . <i>PLoS ONE</i> , 2015, 10, e0135381.	2.5	21
21	The Killer Fly Hunger Games: Target Size and Speed Predict Decision to Pursuit. <i>Brain, Behavior and Evolution</i> , 2015, 86, 28-37.	1.7	20
22	Long-Wavelength Reflecting Filters Found in the Larval Retinas of One Mantis Shrimp Family (Nannosquillidae). <i>Current Biology</i> , 2019, 29, 3101-3108.e4.	3.9	14
23	Binocular Encoding in the Damselfly Pre-motor Target Tracking System. <i>Current Biology</i> , 2020, 30, 645-656.e4.	3.9	14
24	Can chromatic aberration enable color vision in natural environments?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6908-E6909.	7.1	13
25	Endoplasmic Reticulum Luminal Indicators in <i>Drosophila</i> Reveal Effects of HSP-Related Mutations on Endoplasmic Reticulum Calcium Dynamics. <i>Frontiers in Neuroscience</i> , 2020, 14, 816.	2.8	13
26	Avoiding obstacles while intercepting a moving target: a miniature fly's solution. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	12
27	Isolation and characterization of microsatellite loci from <i>Acacia nilotica</i> ssp. <i>indica</i> (Mimosaceae). <i>Molecular Ecology Notes</i> , 2004, 4, 361-363.	1.7	10
28	Visual approach computation in feeding hoverflies. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	8
29	A Leucine Aminopeptidase Gene of the Pacific Oyster <i>Crassostrea gigas</i> Exhibits an Unusually High Level of Sequence Variation, Predicted to Affect Structure, and Hence Activity, of the Enzyme. <i>Journal of Shellfish Research</i> , 2008, 27, 1143-1154.	0.9	5
30	Isolation and characterization of microsatellite loci from <i>Chiasmia assimilis</i> (Warren, 1899) (Lepidoptera: Geometridae). <i>Molecular Ecology Notes</i> , 2004, 4, 358-360.	1.7	2
31	A novel setup for simultaneous two-photon functional imaging and precise spectral and spatial visual stimulation in <i>Drosophila</i> . <i>Scientific Reports</i> , 2020, 10, 15681.	3.3	1
32	Dissecting the resolution of a fruit fly retina. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, S157.	1.8	0
33	Exploring visual motion circuitry in <i>Drosophila</i> with ultraviolet light. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, S158.	1.8	0