Ethan K Scott

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8689416/publications.pdf

Version: 2024-02-01

56	4,530	147801	168389
papers	citations	31 h-index	53 g-index

72	72	72	4741
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optogenetic dissection of a behavioural module in the vertebrate spinal cord. Nature, 2009, 461, 407-410.	27.8	387
2	Targeting neural circuitry in zebrafish using GAL4 enhancer trapping. Nature Methods, 2007, 4, 323-326.	19.0	375
3	Neuronal activity biases axon selection for myelination in vivo. Nature Neuroscience, 2015, 18, 683-689.	14.8	361
4	Remote Control of Neuronal Activity with a Light-Gated Glutamate Receptor. Neuron, 2007, 54, 535-545.	8.1	310
5	How do dendrites take their shape?. Nature Neuroscience, 2001, 4, 359-365.	14.8	267
6	Filtering of Visual Information in the Tectum by an Identified Neural Circuit. Science, 2010, 330, 669-673.	12.6	223
7	Proneural gene-linked neurogenesis in zebrafish cerebellum. Developmental Biology, 2010, 343, 1-17.	2.0	139
8	The cellular architecture of the larval zebrafish tectum, as revealed by Gal4 enhancer trap lines. Frontiers in Neural Circuits, 2009, 3, 13.	2.8	137
9	Small GTPase Cdc42 Is Required for Multiple Aspects of Dendritic Morphogenesis. Journal of Neuroscience, 2003, 23, 3118-3123.	3.6	124
10	Focusing on optic tectum circuitry through the lens of genetics. BMC Biology, 2010, 8, 126.	3.8	119
11	Genetic and optical targeting of neural circuits and behaviorâ€"zebrafish in the spotlight. Current Opinion in Neurobiology, 2009, 19, 553-560.	4.2	96
12	Integrative whole-brain neuroscience in larval zebrafish. Current Opinion in Neurobiology, 2018, 50, 136-145.	4.2	95
13	A mosaic genetic screen for genes necessary forDrosophilamushroom body neuronal morphogenesis. Development (Cambridge), 2003, 130, 1203-1213.	2.5	92
14	Altered brain-wide auditory networks in a zebrafish model of fragile X syndrome. BMC Biology, 2020, 18, 125.	3.8	92
15	Optical trapping in vivo: theory, practice, and applications. Nanophotonics, 2019, 8, 1023-1040.	6.0	91
16	The tectum/superior colliculus as the vertebrate solution for spatial sensory integration and action. Current Biology, 2021, 31, R741-R762.	3.9	91
17	Deep conservation of the enhancer regulatory code in animals. Science, 2020, 370, .	12.6	89
18	Structure of the vertical and horizontal system neurons of the lobula plate inDrosophila. Journal of Comparative Neurology, 2002, 454, 470-481.	1.6	86

#	Article	IF	Citations
19	Cellular-Resolution Imaging of Vestibular Processing across the Larval Zebrafish Brain. Current Biology, 2018, 28, 3711-3722.e3.	3.9	85
20	Optical trapping of otoliths drives vestibular behaviours in larval zebrafish. Nature Communications, 2017, 8, 630.	12.8	82
21	Spontaneous Activity in the Zebrafish Tectum Reorganizes over Development and Is Influenced by Visual Experience. Current Biology, 2017, 27, 2407-2419.e4.	3.9	72
22	Luminance Changes Drive Directional Startle through a Thalamic Pathway. Neuron, 2018, 99, 293-301.e4.	8.1	71
23	enok encodes a Drosophila putative histone acetyltransferase required for mushroom body neuroblast proliferation. Current Biology, 2001, 11, 99-104.	3.9	67
24	Cerebellar Output in Zebrafish: An Analysis of Spatial Patterns and Topography in Eurydendroid Cell Projections. Frontiers in Neural Circuits, 2013, 7, 53.	2.8	67
25	Functional Profiles of Visual-, Auditory-, and Water Flow-Responsive Neurons in the Zebrafish Tectum. Current Biology, 2016, 26, 743-754.	3.9	67
26	The Gal4/UAS toolbox in zebrafish: new approaches for defining behavioral circuits. Journal of Neurochemistry, 2009, 110, 441-456.	3.9	60
27	Big ideas for small brains: what can psychiatry learn from worms, flies, bees and fish?. Molecular Psychiatry, 2011, 16, 7-16.	7.9	59
28	Fin-Tail Coordination during Escape and Predatory Behavior in Larval Zebrafish. PLoS ONE, 2012, 7, e32295.	2.5	44
29	Diffuse lightâ€sheet microscopy for stripeâ€free calcium imaging of neural populations. Journal of Biophotonics, 2018, 11, e201800088.	2.3	42
30	Multiscale imaging of basal cell dynamics in the functionally mature mammary gland. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26822-26832.	7.1	41
31	A profile of auditoryâ€responsive neurons in the larval zebrafish brain. Journal of Comparative Neurology, 2017, 525, 3031-3043.	1.6	40
32	Brain-Wide Mapping of Water Flow Perception in Zebrafish. Journal of Neuroscience, 2020, 40, 4130-4144.	3.6	40
33	STIM1 Is Required for Remodeling of the Endoplasmic Reticulum and Microtubule Cytoskeleton in Steering Growth Cones. Journal of Neuroscience, 2019, 39, 5095-5114.	3.6	39
34	Topographic wiring of the retinotectal connection in zebrafish. Developmental Neurobiology, 2015, 75, 542-556.	3.0	36
35	Dendritic development of Drosophila high order visual system neurons is independent of sensory experience. BMC Neuroscience, 2003, 4, 14.	1.9	33
36	Zebrafish as an appealing model for optogenetic studies. Progress in Brain Research, 2012, 196, 145-162.	1.4	33

#	Article	IF	Citations
37	Hypothalamic Projections to the Optic Tectum in Larval Zebrafish. Frontiers in Neuroanatomy, 2017, 11, 135.	1.7	30
38	Scattering of Sculpted Light in Intact Brain Tissue, with implications for Optogenetics. Scientific Reports, 2015, 5, 11501.	3.3	29
39	The dynamics of growth cone morphology. BMC Biology, 2015, 13, 10.	3.8	28
40	Characterisation of sensitivity and orientation tuning for visually responsive ensembles in the zebrafish tectum. Scientific Reports, 2016, 6, 34887.	3.3	24
41	A quantitative analysis of branching, growth cone turning, and directed growth in zebrafish retinotectal axon guidance. Journal of Comparative Neurology, 2013, 521, 1409-1429.	1.6	22
42	Limitations of Neural Map Topography for Decoding Spatial Information. Journal of Neuroscience, 2016, 36, 5385-5396.	3.6	21
43	Calcium Imaging and the Curse of Negativity. Frontiers in Neural Circuits, 2020, 14, 607391.	2.8	21
44	Optical Tweezers Exploring Neuroscience. Frontiers in Bioengineering and Biotechnology, 2020, 8, 602797.	4.1	20
45	Transient Knockdown of Tyrosine Hydroxylase during Development Has Persistent Effects on Behaviour in Adult Zebrafish (Danio rerio). PLoS ONE, 2012, 7, e42482.	2.5	19
46	Sound generation in zebrafish with Bio-Opto-Acoustics. Nature Communications, 2020, 11, 6120.	12.8	17
47	Brain-wide visual habituation networks in wild type and fmr1 zebrafish. Nature Communications, 2022, 13, 895.	12.8	17
48	A gain-of-function screen in zebrafish identifies a guanylate cyclase with a role in neuronal degeneration. Molecular Genetics and Genomics, 2009, 281, 551-563.	2.1	14
49	The influence of activity on axon pathfinding in the optic tectum. Developmental Neurobiology, 2015, 75, 608-620.	3.0	14
50	Broad frequency sensitivity and complex neural coding in the larval zebrafish auditory system. Current Biology, 2021, 31, 1977-1987.e4.	3.9	13
51	Optical tweezers across scales in cell biology. Trends in Cell Biology, 2022, 32, 932-946.	7.9	9
52	Contributions of Luminance and Motion to Visual Escape and Habituation in Larval Zebrafish. Frontiers in Neural Circuits, 2021, 15, 748535.	2.8	7
53	Visual escape in larval zebrafish: stimuli, circuits, and behavior. , 2020, , 49-71.		5
54	Quantitative Analysis of Axonal Branch Dynamics in the Developing Nervous System. PLoS Computational Biology, 2016, 12, e1004813.	3.2	5

#	Article	IF	Citations
55	Computational Modeling of Scattering of a Focused Beam in Zebrafish Brain Tissue. , 2015, , .		0
56	Brain states behind exploring and hunting revealed. Nature, 2020, 577, 175-176.	27.8	0