

# Florian Engert

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59  
papers

3,846  
citations

32  
h-index

62  
g-index

78  
ext. papers

5,169  
ext. citations

13.3  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
59	Voltage imaging identifies spinal circuits that modulate locomotor adaptation in zebrafish.. <i>Neuron</i> , <b>2022</b> ,	13.9	3
58	Social isolation modulates appetite and avoidance behavior via a common oxytocinergic circuit in larval zebrafish.. <i>Nature Communications</i> , <b>2022</b> , 13, 2573	17.4	1
57	Precise visuomotor transformations underlying collective behavior in larval zebrafish. <i>Nature Communications</i> , <b>2021</b> , 12, 6578	17.4	5
56	Collective behavior emerges from genetically controlled simple behavioral motifs in zebrafish. <i>Science Advances</i> , <b>2021</b> , 7, eabi7460	14.3	4
55	Algorithms underlying flexible phototaxis in larval zebrafish. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	1
54	Distributed chromatic processing at the interface between retina and brain in the larval zebrafish. <i>Current Biology</i> , <b>2021</b> , 31, 1945-1953.e5	6.3	6
53	Coordination of two enhancers drives expression of olfactory trace amine-associated receptors. <i>Nature Communications</i> , <b>2021</b> , 12, 3798	17.4	2
52	Study of locomotion response and development in zebrafish ( <i>Danio rerio</i> ) embryos and larvae exposed to enniatin A, enniatin B, and beauvericin. <i>Science of the Total Environment</i> , <b>2021</b> , 777, 146075	10.2	5
51	Larval Zebrafish Use Olfactory Detection of Sodium and Chloride to Avoid Salt Water. <i>Current Biology</i> , <b>2021</b> , 31, 782-793.e3	6.3	12
50	Elevated preoptic brain activity in zebrafish glial glycine transporter mutants is linked to lethargy-like behaviors and delayed emergence from anesthesia. <i>Scientific Reports</i> , <b>2021</b> , 11, 3148	4.9	
49	Larval zebrafish as an in vitro model for evaluating toxicological effects of mycotoxins. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 202, 110909	7	9
48	Cerebellar Neurodynamics Predict Decision Timing and Outcome on the Single-Trial Level. <i>Cell</i> , <b>2020</b> , 180, 536-551.e17	56.2	35
47	Probabilistic Models of Larval Zebrafish Behavior Reveal Structure on Many Scales. <i>Current Biology</i> , <b>2020</b> , 30, 70-82.e4	6.3	45
46	Neural circuits for evidence accumulation and decision making in larval zebrafish. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 94-102	25.5	50
45	Neuromodulation: How Dopaminergic Neurons Shape and Modulate Behavior. <i>Current Biology</i> , <b>2020</b> , 30, R1422-R1425	6.3	1
44	Distributed Plasticity Drives Visual Habituation Learning in Larval Zebrafish. <i>Current Biology</i> , <b>2019</b> , 29, 1337-1345.e4	6.3	38
43	Zebrafish oxytocin neurons drive nocifensive behavior via brainstem premotor targets. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 1477-1492	25.5	30

42	Convergent Temperature Representations in Artificial and Biological Neural Networks. <i>Neuron</i> , <b>2019</b> , 103, 1123-1134.e6	13.9	9
41	A bidirectional network for appetite control in larval zebrafish. <i>ELife</i> , <b>2019</b> , 8,	8.9	26
40	Elements of a stochastic 3D prediction engine in larval zebrafish prey capture. <i>ELife</i> , <b>2019</b> , 8,	8.9	14
39	A robotic multidimensional directed evolution approach applied to fluorescent voltage reporters. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 352-360	11.7	187
38	A Brain-wide Circuit Model of Heat-Evoked Swimming Behavior in Larval Zebrafish. <i>Neuron</i> , <b>2018</b> , 98, 817-831.e6	13.9	36
37	Brain-wide Organization of Neuronal Activity and Convergent Sensorimotor Transformations in Larval Zebrafish. <i>Neuron</i> , <b>2018</b> , 100, 876-890.e5	13.9	60
36	High-throughput screening for selective appetite modulators: A multibehavioral and translational drug discovery strategy. <i>Science Advances</i> , <b>2018</b> , 4, eaav1966	14.3	33
35	Lamellar projections in the endolymphatic sac act as a relief valve to regulate inner ear pressure. <i>ELife</i> , <b>2018</b> , 7,	8.9	14
34	Whole-brain serial-section electron microscopy in larval zebrafish. <i>Nature</i> , <b>2017</b> , 545, 345-349	50.4	172
33	Expansion microscopy of zebrafish for neuroscience and developmental biology studies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E10799-E10808	11.5	51
32	A novel mechanism for mechanosensory-based rheotaxis in larval zebrafish. <i>Nature</i> , <b>2017</b> , 547, 445-448	50.4	83
31	From Whole-Brain Data to Functional Circuit Models: The Zebrafish Optomotor Response. <i>Cell</i> , <b>2016</b> , 167, 947-960.e20	56.2	141
30	Neural Circuits Underlying Visually Evoked Escapes in Larval Zebrafish. <i>Neuron</i> , <b>2016</b> , 89, 613-28	13.9	185
29	Brain-wide mapping of neural activity controlling zebrafish exploratory locomotion. <i>ELife</i> , <b>2016</b> , 5, e127481	8.9	148
28	Properties of the Visible Light Phototaxis and UV Avoidance Behaviors in the Larval Zebrafish. <i>Frontiers in Behavioral Neuroscience</i> , <b>2016</b> , 10, 160	3.5	23
27	Whole-field visual motion drives swimming in larval zebrafish via a stochastic process. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 1433-43	3	15
26	A convergent and essential interneuron pathway for Mauthner-cell-mediated escapes. <i>Current Biology</i> , <b>2015</b> , 25, 1526-34	6.3	67
25	Visuomotor transformations underlying hunting behavior in zebrafish. <i>Current Biology</i> , <b>2015</b> , 25, 831-46	6.3	119

24	Whole-brain activity mapping onto a zebrafish brain atlas. <i>Nature Methods</i> , <b>2015</b> , 12, 1039-46	21.6	255
23	A high-throughput assay for quantifying appetite and digestive dynamics. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2015</b> , 309, R345-57	3.2	19
22	The structure and timescales of heat perception in larval zebrafish. <i>Cell Systems</i> , <b>2015</b> , 1, 338-348	10.6	25
21	Large-scale imaging in small brains. <i>Current Opinion in Neurobiology</i> , <b>2015</b> , 32, 78-86	7.6	49
20	Whole-brain activity maps reveal stereotyped, distributed networks for visuomotor behavior. <i>Neuron</i> , <b>2014</b> , 81, 1328-1343	13.9	187
19	The big data problem: turning maps into knowledge. <i>Neuron</i> , <b>2014</b> , 83, 1246-8	13.9	14
18	Neural control and modulation of swimming speed in the larval zebrafish. <i>Neuron</i> , <b>2014</b> , 83, 692-707	13.9	130
17	Navigational strategies underlying phototaxis in larval zebrafish. <i>Frontiers in Systems Neuroscience</i> , <b>2014</b> , 8, 39	3.5	36
16	Simultaneous mapping of membrane voltage and calcium in zebrafish heart in vivo reveals chamber-specific developmental transitions in ionic currents. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 344	4.6	61
15	Spinal projection neurons control turning behaviors in zebrafish. <i>Current Biology</i> , <b>2013</b> , 23, 1566-73	6.3	73
14	Two-photon calcium imaging during fictive navigation in virtual environments. <i>Frontiers in Neural Circuits</i> , <b>2013</b> , 7, 104	3.5	41
13	Direction selectivity in the larval zebrafish tectum is mediated by asymmetric inhibition. <i>Frontiers in Neural Circuits</i> , <b>2012</b> , 6, 59	3.5	40
12	Brain-wide neuronal dynamics during motor adaptation in zebrafish. <i>Nature</i> , <b>2012</b> , 485, 471-7	50.4	445
11	Ontogeny of classical and operant learning behaviors in zebrafish. <i>Learning and Memory</i> , <b>2012</b> , 19, 170-72.8		120
10	Adaptive locomotor behavior in larval zebrafish. <i>Frontiers in Systems Neuroscience</i> , <b>2011</b> , 5, 72	3.5	67
9	Prey capture behavior evoked by simple visual stimuli in larval zebrafish. <i>Frontiers in Systems Neuroscience</i> , <b>2011</b> , 5, 101	3.5	166
8	Monitoring neural activity with bioluminescence during natural behavior. <i>Nature Neuroscience</i> , <b>2010</b> , 13, 513-20	25.5	171
7	The neural basis of visual behaviors in the larval zebrafish. <i>Current Opinion in Neurobiology</i> , <b>2009</b> , 19, 644-7	7.6	104

6	Control of visually guided behavior by distinct populations of spinal projection neurons. <i>Nature Neuroscience</i> , <b>2008</b> , 11, 327-33	25,5	191
5	Convergent Temperature Representations in Artificial and Biological Neural Networks. <i>SSRN Electronic Journal</i> ,	1	1
4	Social isolation modulates appetite and defensive behavior via a common oxytocinergic circuit in larval zebrafish		5
3	Probabilistic Models of Larval Zebrafish Behavior: Structure on Many Scales		7
2	Collective behavior emerges from genetically controlled simple behavioral motifs in zebrafish		1
1	Precise visuomotor transformations underlying collective behavior in larval zebrafish		1