David G C Hildebrand

List of Publications by Citations

22 papers	741 citations	12 h-index	26 g-index
26 ext. papers	1,082 ext. citations	13.1 avg, IF	3.81 L-index

#	Paper	IF	Citations
22	Whole-brain serial-section electron microscopy in larval zebrafish. *Nature*, **2017**, 545, 345-349	50.4	172
21	Imaging ATUM ultrathin section libraries with WaferMapper: a multi-scale approach to EM reconstruction of neural circuits. *Frontiers in Neural Circuits*, **2014**, 8, 68	3.5	161
20	Pan-neuronal calcium imaging with cellular resolution in freely swimming zebrafish. *Nature Methods*, **2017**, 14, 1107-1114	21.6	129
19	Sensorimotor computation underlying phototaxis in zebrafish. *Nature Communications*, **2017**, 8, 651	17.4	55
18	Reconstruction of motor control circuits in adult Drosophila using automated transmission electron microscopy. *Cell*, **2021**, 184, 759-774.e18	56.2	40
17	High-performance prediction of functional residues in proteins with machine learning and computed input features. *Biopolymers*, **2011**, 95, 390-400	2.2	31
16	Geometric deep learning enables 3D kinematic profiling across species and environments. *Nature Methods*, **2021**, 18, 564-573	21.6	27
15	Vivaldi: A Domain-Specific Language for Volume Processing and Visualization on Distributed Heterogeneous Systems. *IEEE Transactions on Visualization and Computer Graphics*, **2014**, 20, 2407-16	4	20
14	Reconstruction of motor control circuits in adult Drosophila using automated transmission electron microscopy		19
13	ssEMnet: Serial-Section Electron Microscopy Image Registration Using a Spatial Transformer Network with Learned Features. *Lecture Notes in Computer Science*, **2017**, 249-257	0.9	18
12	High-throughput transmission electron microscopy with automated serial sectioning		16
11	Lamellar projections in the endolymphatic sac act as a relief valve to regulate inner ear pressure. *ELife*, **2018**, 7,	8.9	14
10	Finding Mirror Symmetry via Registration and Optimal Symmetric Pairwise Assignment of Curves **2017**,		12
9	Assessing contributions of nucleus accumbens shell subregions to reward-seeking behavior. *Drug and Alcohol Dependence*, **2015**, 153, 369-73	4.9	7
8	Finding Mirror Symmetry via Registration and Optimal Symmetric Pairwise Assignment of Curves: Algorithm and Results **2017**,		6
7	Central Vestibular Tuning Arises from Patterned Convergence of Otolith Afferents. *Neuron*, **2020**, 108, 748-762.e4	13.9	5
6	Reel-to-Reel Electron Microscopy: Latency-Free Continuous Imaging of Large Sample Volumes. *Microscopy and Microanalysis*, **2015**, 21, 157-158	0.5	3

List of Publications

5	High Conservation of Amino Acids with Anomalous Protonation Behavior. *Current Bioinformatics*, **2010**, 5, 134-140	4.7	3
4	A flexible system for hands-free intracranial microinjection. *Journal of Neuroscience Methods*, **2009**, 185, 62-5	3	1
3	Structured connectivity in the cerebellum enables noise-resilient pattern separation		1
2	High plasticity in marmoset monkey vocal development from infancy to adulthood. *Science Advances*, **2021**, 7,	14.3	1
1	ZeVis: A Visual Analytics System for Exploration of a Larval Zebrafish Brain in Serial-Section Electron Microscopy Images. *IEEE Access*, **2021**, 9, 78755-78763	3.5	0