

David G C Hildebrand

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.

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	Geometric deep learning enables 3D kinematic profiling across species and environments. <i>Nature Methods</i> , 2021 , 18, 564-573	21.6	27
21	High plasticity in marmoset monkey vocal development from infancy to adulthood. <i>Science Advances</i> , 2021 , 7,	14.3	1
20	ZeVis: A Visual Analytics System for Exploration of a Larval Zebrafish Brain in Serial-Section Electron Microscopy Images. <i>IEEE Access</i> , 2021 , 9, 78755-78763	3.5	0
19	Reconstruction of motor control circuits in adult Drosophila using automated transmission electron microscopy. <i>Cell</i> , 2021 , 184, 759-774.e18	56.2	40
18	Central Vestibular Tuning Arises from Patterned Convergence of Otolith Afferents. <i>Neuron</i> , 2020 , 108, 748-762.e4	13.9	5
17	Lamellar projections in the endolymphatic sac act as a relief valve to regulate inner ear pressure. <i>ELife</i> , 2018 , 7,	8.9	14
16	Whole-brain serial-section electron microscopy in larval zebrafish. <i>Nature</i> , 2017 , 545, 345-349	50.4	172
15	Pan-neuronal calcium imaging with cellular resolution in freely swimming zebrafish. <i>Nature Methods</i> , 2017 , 14, 1107-1114	21.6	129
14	Sensorimotor computation underlying phototaxis in zebrafish. <i>Nature Communications</i> , 2017 , 8, 651	17.4	55
13	Finding Mirror Symmetry via Registration and Optimal Symmetric Pairwise Assignment of Curves 2017 ,		12
12	Finding Mirror Symmetry via Registration and Optimal Symmetric Pairwise Assignment of Curves: Algorithm and Results 2017 ,		6
11	ssEMnet: Serial-Section Electron Microscopy Image Registration Using a Spatial Transformer Network with Learned Features. <i>Lecture Notes in Computer Science</i> , 2017 , 249-257	0.9	18
10	Assessing contributions of nucleus accumbens shell subregions to reward-seeking behavior. <i>Drug and Alcohol Dependence</i> , 2015 , 153, 369-73	4.9	7
9	Reel-to-Reel Electron Microscopy: Latency-Free Continuous Imaging of Large Sample Volumes. <i>Microscopy and Microanalysis</i> , 2015 , 21, 157-158	0.5	3
8	Imaging ATUM ultrathin section libraries with WaferMapper: a multi-scale approach to EM reconstruction of neural circuits. <i>Frontiers in Neural Circuits</i> , 2014 , 8, 68	3.5	161
7	Vivaldi: A Domain-Specific Language for Volume Processing and Visualization on Distributed Heterogeneous Systems. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014 , 20, 2407-16	4	20
6	High-performance prediction of functional residues in proteins with machine learning and computed input features. <i>Biopolymers</i> , 2011 , 95, 390-400	2.2	31

5	High Conservation of Amino Acids with Anomalous Protonation Behavior. <i>Current Bioinformatics</i> , 2010 , 5, 134-140	4-7	3
4	A flexible system for hands-free intracranial microinjection. <i>Journal of Neuroscience Methods</i> , 2009 , 185, 62-5	3	1
3	Structured connectivity in the cerebellum enables noise-resilient pattern separation		1
2	Reconstruction of motor control circuits in adult <i>Drosophila</i> using automated transmission electron microscopy		9
1	High-throughput transmission electron microscopy with automated serial sectioning		16