

David G C Hildebrand

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,304
citations

758635

12
h-index

887659

17
g-index

26
all docs

26
docs citations

26
times ranked

1758
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole-brain serial-section electron microscopy in larval zebrafish. <i>Nature</i> , 2017, 545, 345-349.	13.7	282
2	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.	1.4	216
3	Pan-neuronal calcium imaging with cellular resolution in freely swimming zebrafish. <i>Nature Methods</i> , 2017, 14, 1107-1114.	9.0	193
4	Reconstruction of motor control circuits in adult <i>Drosophila</i> using automated transmission electron microscopy. <i>Cell</i> , 2021, 184, 759-774.e18.	13.5	116
5	Geometric deep learning enables 3D kinematic profiling across species and environments. <i>Nature Methods</i> , 2021, 18, 564-573.	9.0	111
6	Sensorimotor computation underlying phototaxis in zebrafish. <i>Nature Communications</i> , 2017, 8, 651.	5.8	93
7	High-performance prediction of functional residues in proteins with machine learning and computed input features. <i>Biopolymers</i> , 2011, 95, 390-400.	1.2	44
8	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.	1.0	37
9	Central Vestibular Tuning Arises from Patterned Convergence of Otolith Afferents. <i>Neuron</i> , 2020, 108, 748-762.e4.	3.8	29
10	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, 2407-2416.	2.9	25
11	Lamellar projections in the endolymphatic sac act as a relief valve to regulate inner ear pressure. <i>ELife</i> , 2018, 7, .	2.8	23
12	High plasticity in marmoset monkey vocal development from infancy to adulthood. <i>Science Advances</i> , 2021, 7, .	4.7	22
13	Finding Mirror Symmetry via Registration and Optimal Symmetric Pairwise Assignment of Curves. , 2017, , .		17
14	Assessing contributions of nucleus accumbens shell subregions to reward-seeking behavior. <i>Drug and Alcohol Dependence</i> , 2015, 153, 369-373.	1.6	10
15	Finding Mirror Symmetry via Registration and Optimal Symmetric Pairwise Assignment of Curves: Algorithm and Results. , 2017, , .		9
16	Reel-to-Reel Electron Microscopy: Latency-Free Continuous Imaging of Large Sample Volumes. <i>Microscopy and Microanalysis</i> , 2015, 21, 157-158.	0.2	4
17	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.	2.6	4
18	High Conservation of Amino Acids with Anomalous Protonation Behavior. <i>Current Bioinformatics</i> , 2010, 5, 134-140.	0.7	3

#	ARTICLE	IF	CITATIONS
19	A flexible system for hands-free intracranial microinjection. Journal of Neuroscience Methods, 2009, 185, 62-65.	1.3	1