Gaia Pigino

List of Publications by Year
in descending order

42 papers	2,098 citations	304743 22 h-index	345221 36 g-index
52 all docs	52 docs citations	52 times ranked	2328 citing authors

#	Article	IF	Citations
1	Microtubule doublets are double-track railways for intraflagellar transport trains. Science, 2016, 352, 721-724.	12.6	223
2	Electron-tomographic analysis of intraflagellar transport particle trains in situ. Journal of Cell Biology, 2009, 187, 135-148.	5.2	187
3	Cryoelectron tomography of radial spokes in cilia and flagella. Journal of Cell Biology, 2011, 195, 673-687.	5.2	157
4	The cryo-EM structure of intraflagellar transport trains reveals how dynein is inactivated to ensure unidirectional anterograde movement in cilia. Nature Cell Biology, 2018, 20, 1250-1255.	10.3	146
5	The molecular structure of mammalian primary cilia revealed by cryo-electron tomography. Nature Structural and Molecular Biology, 2020, 27, 1115-1124.	8.2	118
6	DNAH11 Localization in the Proximal Region of Respiratory Cilia Defines Distinct Outer Dynein Arm Complexes. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 213-224.	2.9	107
7	The effects of heavy metal contamination on the soil arthropod community of a shooting range. Environmental Pollution, 2004, 129, 331-340.	7.5	105
8	Comparative structural analysis of eukaryotic flagella and cilia from Chlamydomonas, Tetrahymena, and sea urchins. Journal of Structural Biology, 2012, 178, 199-206.	2.8	90
9	Tubulin glycylation controls axonemal dynein activity, flagellar beat, and male fertility. Science, 2021, 371, .	12.6	84
10	Cryo-CARE: Content-Aware Image Restoration for Cryo-Transmission Electron Microscopy Data. , 2019, , .		74
11	Three-dimensional mass density mapping of cellular ultrastructure by ptychographic X-ray nanotomography. Journal of Structural Biology, 2015, 192, 461-469.	2.8	72
12	Content-aware image restoration for electron microscopy. Methods in Cell Biology, 2019, 152, 277-289.	1.1	71
13	Axonemal radial spokes. Bioarchitecture, 2012, 2, 50-58.	1.5	60
14	Soil communities (Acari Oribatida; Hexapoda Collembola) in a clay pigeon shooting range. Pedobiologia, 2005, 49, 1-13.	1.2	55
15	The Bergerâ€"Parker index as an effective tool for monitoring the biodiversity of disturbed soils: a case study on Mediterranean oribatid (Acari: Oribatida) assemblages. Biodiversity and Conservation, 2007, 16, 3277-3285.	2.6	54
16	Reorganization of budding yeast cytoplasm upon energy depletion. Molecular Biology of the Cell, 2020, 31, 1232-1245.	2.1	39
17	Intraflagellar transport. Current Biology, 2021, 31, R530-R536.	3.9	38
18	The structural basis of intraflagellar transport at a glance. Journal of Cell Science, 2021, 134, .	2.0	37

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19	Fine structure of the midgut and Malpighian papillae in Campodea (Monocampa) quilisi Silvestri, 1932 (Hexapoda, Diplura) with special reference to the metal composition and physiological significance of midgut intracellular electron-dense granules. Tissue and Cell, 2005, 37, 223-232.	2.2	36
20	Microridges are apical epithelial projections formed of F-actin networks that organize the glycan layer. Scientific Reports, 2019, 9, 12191.	3.3	31
21	Ccdc113/Ccdc96 complex, a novel regulator of ciliary beating that connects radial spoke 3 to dynein g and the nexin link. PLoS Genetics, 2021, 17, e1009388.	3.5	31
22	A WDR35-dependent coat protein complex transports ciliary membrane cargo vesicles to cilia. ELife, 2021, 10, .	6.0	29
23	In vivo imaging shows continued association of several IFT-A, IFT-B and dynein complexes while IFT trains U-turn at the tip. Journal of Cell Science, 2021, 134, .	2.0	28
24	Localisation of heavy metals in the midgut epithelial cells of Xenillus tegeocranus (Hermann, 1804) (Acari: Oribatida). Ecotoxicology and Environmental Safety, 2006, 64, 257-263.	6.0	27
25	Artifact characterization and reduction in scanning X-ray Zernike phase contrast microscopy. Optics Express, 2015, 23, 13278.	3.4	27
26	Three-dimensional structural analysis of eukaryotic flagella/cilia by electron cryo-tomography. Journal of Synchrotron Radiation, 2011, 18, 2-5.	2.4	24
27	JUST (Java User Segmentation Tool) for semi-automatic segmentation of tomographic maps. Journal of Structural Biology, 2008, 161, 287-297.	2.8	22
28	Simultaneous alignment of dual-axis tilt series. Journal of Structural Biology, 2010, 169, 192-199.	2.8	19
29	Filament formation by the translation factor eIF2B regulates protein synthesis in starved cells. Biology Open, 2020, 9, .	1.2	18
30	The Bergerâ€"Parker index as an effective tool for monitoring the biodiversity of disturbed soils: a case study on Mediterranean oribatid (Acari: Oribatida) assemblages. , 2006, , 35-43.		9
31	Millisecond time resolution correlative light and electron microscopy for dynamic cellular processes. Methods in Cell Biology, 2017, 140, 1-20.	1.1	8
32	In situ cryo-electron tomography and subtomogram averaging of intraflagellar transport trains. Methods in Cell Biology, 2019, 152, 179-195.	1.1	8
33	Fabrication of High Aspect Ratio Gold Nanowires within the Microtubule Lumen. Nano Letters, 2022, 22, 3659-3667.	9.1	8
34	Electron Tomography of IFT Particles. Methods in Enzymology, 2013, 524, 325-342.	1.0	6
35	Towards a mechanistic understanding of cellular processes by cryoEM. Current Opinion in Structural Biology, 2019, 58, 149-158.	5.7	4
36	Switching dynein motors on and off. Nature Structural and Molecular Biology, 2017, 24, 557-559.	8.2	3

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37	Addendum to â€œThree-dimensional mass density mapping of cellular ultrastructure by ptychographic X-ray nanotomographyâ€•[J. Struct. Biol. 192 (2015) 461â€“469]. Journal of Structural Biology, 2016, 193, 83.	2.8	2
38	Preface. Methods in Cell Biology, 2019, 152, xiii.	1.1	1
39	Networks of Dynein and Regulatory Proteins in Flagella/Cilia Visualized by Electron Cryo-Tomography. Biophysical Journal, 2012, 102, 39a.	0.5	0
40	In vivo three-dimensional structural analysis of cilia by cryo-electron tomography. Cilia, 2012, 1, .	1.8	0
41	Microtubule dynamics: 50 years after the discovery of tubulin and still going strong. Molecular Biology of the Cell, 2017, 28, 705-706.	2.1	0
42	Yeast membraneless compartments revealed by correlative light microscopy and electron tomography. Methods in Cell Biology, 2019, 152, 103-117.	1.1	0