

# Daniela Nicastro

## List of Publications by Year in descending order

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75  
papers

7,682  
citations

70409

40  
h-index

69880

75  
g-index

97  
all docs

97  
docs citations

97  
times ranked

7430  
citing authors

#	ARTICLE	IF	CITATIONS
1	The MBO2/FAP58 heterodimer stabilizes assembly of inner arm dynein and reveals axoneme asymmetries involved in ciliary waveform. <i>Molecular Biology of the Cell</i> , 2024, 35, .	2.4	1
2	Cryo-tomography reveals rigid-body motion and organization of apicomplexan invasion machinery. <i>Nature Communications</i> , 2023, 14, .	13.0	9
3	Electron microscopy for imaging organelles in plants and algae. <i>Plant Physiology</i> , 2022, 188, 713-725.	5.0	25
4	3D structure and in situ arrangements of CatSper channel in the sperm flagellum. <i>Nature Communications</i> , 2022, 13, .	13.0	26
5	Triglyceride lipolysis triggers liquid crystalline phases in lipid droplets and alters the LD proteome. <i>Journal of Cell Biology</i> , 2022, 221, .	5.1	23
6	Functional refolding of the penetration protein on a non-enveloped virus. <i>Nature</i> , 2021, 590, 666-670.	35.8	39
7	Structural organization of the intermediate and light chain complex of <i>Chlamydomonas</i> ciliary I1 dynein. <i>FASEB Journal</i> , 2021, 35, e21646.	0.4	7
8	Structural insights into the cause of human <i>RSPH4A</i> primary ciliary dyskinesia. <i>Molecular Biology of the Cell</i> , 2021, 32, 1202-1209.	2.4	16
9	Proteomic analysis of microtubule inner proteins (MIPs) in <i>Rib72</i> null <i>Tetrahymena</i> cells reveals functional MIPs. <i>Molecular Biology of the Cell</i> , 2021, 32, br8.	2.4	14
10	Structural organization of the C1b projection within the ciliary central apparatus. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	4
11	In situ structure determination at nanometer resolution using TYGRESS. <i>Nature Methods</i> , 2020, 17, 201-208.	19.4	63
12	Complexity and ultrastructure of infectious extracellular vesicles from cells infected by non-enveloped virus. <i>Scientific Reports</i> , 2020, 10, 7939.	3.4	29
13	Absolute proteomic quantification reveals design principles of sperm flagellar chemosensation. <i>EMBO Journal</i> , 2020, 39, e102723.	7.6	22
14	<i>Chlamydomonas</i> PKD2 organizes mastigonemes, hair-like glycoprotein polymers on cilia. <i>Journal of Cell Biology</i> , 2020, 219, .	5.1	49
15	Scaffold subunits support associated subunit assembly in the <i>Chlamydomonas</i> ciliary nexin dynein regulatory complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23152-23162.	7.5	43
16	FAP57/WDR65 targets assembly of a subset of inner arm dyneins and connects to regulatory hubs in cilia. <i>Molecular Biology of the Cell</i> , 2019, 30, 2659-2680.	2.4	36
17	Morphological Plasticity in a Sulfur-Oxidizing Marine Bacterium from the SUP05 Clade Enhances Dark Carbon Fixation. <i>MBio</i> , 2019, 10, .	4.3	26
18	PACRG and FAP20 form the inner junction of axonemal doublet microtubules and regulate ciliary motility. <i>Molecular Biology of the Cell</i> , 2019, 30, 1805-1816.	2.4	45

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19	Heterotrophic carbon metabolism and energy acquisition in <i>Candidatus</i> <i>Thioglobus singularis</i> strain PS1, a member of the SUP05 clade of marine <i>Gamma</i> proteobacteria. <i>Environmental Microbiology</i> , 2019, 21, 2391-2401.	3.8	31
20	Mdm1 maintains endoplasmic reticulum homeostasis by spatially regulating lipid droplet biogenesis. <i>Journal of Cell Biology</i> , 2019, 218, 1319-1334.	5.1	99
21	Structural organization of the C1a-e-c supercomplex within the ciliary central apparatus. <i>Journal of Cell Biology</i> , 2019, 218, 4236-4251.	5.1	40
22	Membrane bridging by Munc13-1 is crucial for neurotransmitter release. <i>ELife</i> , 2019, 8, .	5.9	92
23	The IDA3 adapter, required for intraflagellar transport of I1 dynein, is regulated by ciliary length. <i>Molecular Biology of the Cell</i> , 2018, 29, 886-896.	2.4	38
24	The I1 dynein-associated tether and tether head complex is a conserved regulator of ciliary motility. <i>Molecular Biology of the Cell</i> , 2018, 29, 1048-1059.	2.4	56
25	Cellular Uptake of A Taurine-Modified, Ester Bond-Decorated D-Peptide Derivative via Dynamin-Based Endocytosis and Macropinocytosis. <i>Molecular Therapy</i> , 2018, 26, 648-658.	8.0	22
26	Ciliary proteins Fap43 and Fap44 interact with each other and are essential for proper cilia and flagella beating. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 4479-4493.	5.4	50
27	Asymmetric distribution and spatial switching of dynein activity generates ciliary motility. <i>Science</i> , 2018, 360, .	19.8	209
28	DRC2/CCDC65 is a central hub for assembly of the nexin dynein regulatory complex and other regulators of ciliary and flagellar motility. <i>Molecular Biology of the Cell</i> , 2018, 29, 137-153.	2.4	46
29	<i>Tetrahymena</i> RIB72A and RIB72B are microtubule inner proteins in the ciliary doublet microtubules. <i>Molecular Biology of the Cell</i> , 2018, 29, 2566-2577.	2.4	53
30	Three-Dimensional Structure of the Ultraoligotrophic Marine Bacterium <i>Candidatus</i> <i>Pelagibacter ubique</i> . <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.2	50
31	Centriolar remodeling underlies basal body maturation during ciliogenesis in <i>Caenorhabditis elegans</i> . <i>ELife</i> , 2017, 6, .	5.9	52
32	Enzyme-Instructed Self-Assembly for Spatiotemporal Profiling of the Activities of Alkaline Phosphatases on Live Cells. <i>CheM</i> , 2016, 1, 246-263.	12.1	150
33	The nexin link and tubule glutamylation maintain the alignment of outer doublets in the ciliary axoneme. <i>Cytoskeleton</i> , 2016, 73, 331-340.	2.2	28
34	Membrane Charge Directs the Outcome of F-BAR Domain Lipid Binding and Autoregulation. <i>Cell Reports</i> , 2015, 13, 2597-2609.	6.3	39
35	The CSC proteins FAP61 and FAP251 build the basal substructures of radial spoke 3 in cilia. <i>Molecular Biology of the Cell</i> , 2015, 26, 1463-1475.	2.4	64
36	ATP Consumption of Eukaryotic Flagella Measured at a Single-Cell Level. <i>Biophysical Journal</i> , 2015, 109, 2562-2573.	0.5	76

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37	In Situ Localization of N and C Termini of Subunits of the Flagellar Nexin-Dynein Regulatory Complex (N-DRC) Using SNAP Tag and Cryo-electron Tomography. <i>Journal of Biological Chemistry</i> , 2015, 290, 5341-5353.	3.5	55
38	FAP206 is a microtubule-docking adapter for ciliary radial spoke 2 and dynein c. <i>Molecular Biology of the Cell</i> , 2015, 26, 696-710.	2.4	30
39	DRC3 connects the N-DRC to dynein g to regulate flagellar waveform. <i>Molecular Biology of the Cell</i> , 2015, 26, 2788-2800.	2.4	49
40	Assembly of actin filaments and microtubules in Nwk F-BAR-induced membrane deformations. <i>Communicative and Integrative Biology</i> , 2015, 8, e1000703.	1.5	7
41	Analyzing Macromolecular Complexes in Situ Using Cellular Cryo-Electron Microscopy. <i>FASEB Journal</i> , 2015, 29, 488.3.	0.4	0
42	Structural Correlates of Rotavirus Cell Entry. <i>PLoS Pathogens</i> , 2014, 10, e1004355.	4.0	57
43	Cryo-electron tomography reveals ciliary defects underlying human RSPH1 primary ciliary dyskinesia. <i>Nature Communications</i> , 2014, 5, 5727.	13.0	143
44	Supramolecular Self-Assembly Inside Living Mammalian Cells. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1622, 85-93.	0.1	0
45	Critical roles for multiple formins during cardiac myofibril development and repair. <i>Molecular Biology of the Cell</i> , 2014, 25, 811-827.	2.4	50
46	Insights into the Structure and Function of Ciliary and Flagellar Doublet Microtubules. <i>Journal of Biological Chemistry</i> , 2014, 289, 17427-17444.	3.5	78
47	Structural mechanism of the dynein power stroke. <i>Nature Cell Biology</i> , 2014, 16, 479-485.	9.9	136
48	Membrane deformation and scission by the HSV-1 nuclear egress complex. <i>Nature Communications</i> , 2014, 5, 4131.	13.0	132
49	Robust excitons inhabit soft supramolecular nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3367-75.	7.5	100
50	Conserved structural motifs in the central pair complex of eukaryotic flagella. <i>Cytoskeleton</i> , 2013, 70, 101-120.	2.2	92
51	Probing Nanoscale Self-Assembly of Nonfluorescent Small Molecules inside Live Mammalian Cells. <i>ACS Nano</i> , 2013, 7, 9055-9063.	15.1	69
52	The MIA complex is a conserved and novel dynein regulator essential for normal ciliary motility. <i>Journal of Cell Biology</i> , 2013, 201, 263-278.	5.1	80
53	Formation of membrane ridges and scallops by the F-BAR protein Nervous Wreck. <i>Molecular Biology of the Cell</i> , 2013, 24, 2406-2418.	2.4	41
54	Three-dimensional structure of the radial spokes reveals heterogeneity and interactions with dyneins in <i>Chlamydomonas</i> flagella. <i>Molecular Biology of the Cell</i> , 2012, 23, 111-120.	2.4	88

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55	One of the Nine Doublet Microtubules of Eukaryotic Flagella Exhibits Unique and Partially Conserved Structures. PLoS ONE, 2012, 7, e46494.	2.5	51
56	Cryoelectron tomography reveals doublet-specific structures and unique interactions in the I1 dynein. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2067-76.	7.5	87
57	The CSC connects three major axonemal complexes involved in dynein regulation. Molecular Biology of the Cell, 2012, 23, 3143-3155.	2.4	81
58	The structural heterogeneity of radial spokes in cilia and flagella is conserved. Cytoskeleton, 2012, 69, 88-100.	2.2	71
59	Sas-4 provides a scaffold for cytoplasmic complexes and tethers them in a centrosome. Nature Communications, 2011, 2, 359.	13.0	127
60	The CSC is required for complete radial spoke assembly and wild-type ciliary motility. Molecular Biology of the Cell, 2011, 22, 2520-2531.	2.4	82
61	Cryo-electron tomography reveals conserved features of doublet microtubules in flagella. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E845-53.	7.5	133
62	Building Blocks of the Nexin-Dynein Regulatory Complex in Chlamydomonas Flagella. Journal of Biological Chemistry, 2011, 286, 29175-29191.	3.5	92
63	Arrangement of Photosystem II and ATP Synthase in Chloroplast Membranes of Spinach and Pea. Plant Cell, 2010, 22, 1299-1312.	6.7	244
64	Cryo-Electron Microscope Tomography to Study Axonemal Organization. Methods in Cell Biology, 2009, 91, 1-39.	2.0	47
65	The dynein regulatory complex is the nexin link and a major regulatory node in cilia and flagella. Journal of Cell Biology, 2009, 187, 921-933.	5.1	318
66	Drosophila <i>asterless</i> and Vertebrate Cep152 Are Orthologs Essential for Centriole Duplication. Genetics, 2008, 180, 2081-2094.	2.9	148
67	Electron Microscopy of Microtubule-Based Cytoskeletal Machinery. Methods in Cell Biology, 2007, 79, 437-462.	2.0	8
68	Single particle cryoelectron tomography characterization of the structure and structural variability of poliovirus "receptor" membrane complex at 30 Å... resolution. Journal of Structural Biology, 2007, 160, 200-210.	2.9	32
69	Cryo-fluorescence microscopy facilitates correlations between light and cryo-electron microscopy and reduces the rate of photobleaching. Journal of Microscopy, 2007, 227, 98-109.	2.0	206
70	New views of cells in 3D: an introduction to electron tomography. Trends in Cell Biology, 2005, 15, 43-51.	8.0	384
71	3D structure of eukaryotic flagella in a quiescent state revealed by cryo-electron tomography. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15889-15894.	7.5	159
72	Identification of macromolecular complexes in cryoelectron tomograms of phantom cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14153-14158.	7.5	252

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73	Macromolecular Architecture in Eukaryotic Cells Visualized by Cryoelectron Tomography. <i>Science</i> , 2002, 298, 1209-1213.	19.8	792
74	Cryo-electron Tomography of Neurospora Mitochondria. <i>Journal of Structural Biology</i> , 2000, 129, 48-56.	2.9	180
75	Three-dimensional flagella structures from animals's closest unicellular relatives, the Choanoflagellates. <i>ELife</i> , 0, 11, .	5.9	12