Ohad Medalia

List of Publications by Year
in descending order

91 papers	7,336 citations	70961 41 h-index	60497 81 g-index
107 all docs	107 docs citations	107 times ranked	7521 citing authors

#	Article	IF	Citations
1	Macromolecular Architecture in Eukaryotic Cells Visualized by Cryoelectron Tomography. Science, 2002, 298, 1209-1213.	6.0	782
2	Nuclear Pore Complex Structure and Dynamics Revealed by Cryoelectron Tomography. Science, 2004, 306, 1387-1390.	6.0	451
3	The molecular architecture of lamins in somatic cells. Nature, 2017, 543, 261-264.	13.7	339
4	Snapshots of nuclear pore complexes in action captured by cryo-electron tomography. Nature, 2007, 449, 611-615.	13.7	330
5	Retrovirus envelope protein complex structure in situ studied by cryo-electron tomography. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4729-4734.	3.3	299
6	Functional Architecture of the Nuclear Pore Complex. Annual Review of Biophysics, 2012, 41, 557-584.	4.5	237
7	Nuclear Lamins: Thin Filaments with Major Functions. Trends in Cell Biology, 2018, 28, 34-45.	3.6	227
8	Dissecting the molecular architecture of integrin adhesion sites by cryo-electron tomography. Nature Cell Biology, 2010, 12, 909-915.	4.6	213
9	A progeria mutation reveals functions for lamin A in nuclear assembly, architecture, and chromosome organization. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20788-20793.	3.3	185
10	Protein kinase CK2 and protein kinase D are associated with the COP9 signalosome. EMBO Journal, 2003, 22, 1302-1312.	3.5	176
11	The Human Nuclear Pore Complex as Revealed by Cryo-Electron Tomography. Structure, 2012, 20, 998-1006.	1.6	175
12	Structure and gating of the nuclear pore complex. Nature Communications, 2015, 6, 7532.	5.8	165
13	Organization of Actin Networks in Intact Filopodia. Current Biology, 2007, 17, 79-84.	1.8	151
14	The cellular environment shapes the nuclear pore complex architecture. Nature, 2021, 598, 667-671.	13.7	139
15	The Regulatory Complex of Drosophila melanogaster 26s Proteasomes. Journal of Cell Biology, 2000, 150, 119-130.	2.3	138
16	Haloferax volcanii AglB and AglD are Involved in N-glycosylation of the S-layer Glycoprotein and Proper Assembly of the Surface Layer. Journal of Molecular Biology, 2007, 374, 1224-1236.	2.0	131
17	The Supramolecular Organization of the C. elegans Nuclear Lamin Filament. Journal of Molecular Biology, 2009, 386, 1392-1402.	2.0	124
18	Laminopathic mutations interfere with the assembly, localization, and dynamics of nuclear lamins. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 180-185.	3.3	105

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19	Lamins: the structure and protein complexes. Current Opinion in Cell Biology, 2015, 32, 7-12.	2.6	89
20	The structure of a membrane adenylyl cyclase bound to an activated stimulatory G protein. Science, 2019, 364, 389-394.	6.0	89
21	Structural Analysis of a Metazoan Nuclear Pore Complex Reveals a Fused Concentric Ring Architecture. Journal of Molecular Biology, 2010, 395, 578-586.	2.0	85
22	Structural analysis of multicellular organisms with cryo-electron tomography. Nature Methods, 2015, 12, 634-636.	9.0	85
23	Architecture and Characteristics of Bacterial Nanotubes. Developmental Cell, 2016, 36, 453-461.	3.1	84
24	The role of integrin-linked kinase in the molecular architecture of focal adhesions. Journal of Cell Science, 2013, 126, 4099-107.	1.2	75
25	Profilin 1 is required for abscission during late cytokinesis of chondrocytes. EMBO Journal, 2009, 28, 1157-1169.	3.5	69
26	Adenoviral vector with shield and adapter increases tumor specificity and escapes liver and immune control. Nature Communications, 2018, 9, 450.	5.8	65
27	Structural analysis of the nuclear pore complex by integrated approaches. Current Opinion in Structural Biology, 2009, 19, 226-232.	2.6	63
28	The ABC exporter IrtAB imports and reduces mycobacterial siderophores. Nature, 2020, 580, 413-417.	13.7	63
29	The NSL complex maintains nuclear architecture stability via lamin A/C acetylation. Nature Cell Biology, 2019, 21, 1248-1260.	4.6	61
30	Visualizing cellular processes at the molecular level by cryo-electron tomography. Journal of Cell Science, 2010, 123, 7-12.	1.2	59
31	Visualization of unwinding activity of duplex RNA by DbpA, a DEAD box helicase, at single-molecule resolution by atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5007-5012.	3.3	58
32	A laminopathic mutation disrupting lamin filament assembly causes disease-like phenotypes in<i>Caenorhabditis elegans</i>. Molecular Biology of the Cell, 2011, 22, 2716-2728.	0.9	58
33	Roll, adhere, spread and contract: Structural mechanics of platelet function. European Journal of Cell Biology, 2015, 94, 129-138.	1.6	56
34	Chromatin Organization and Radio Resistance in the Bacterium <i>Gemmata obscuriglobus</i>. Journal of Bacteriology, 2009, 191, 1439-1445.	1.0	52
35	Differential Effect of Actomyosin Relaxation on the Dynamic Properties of Focal Adhesion Proteins. PLoS ONE, 2013, 8, e73549.	1.1	52
36	Cellular structural biology as revealed by cryo-electron tomography. Journal of Cell Science, 2016, 129, 469-76.	1.2	48

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37	Cellular and Structural Studies of Eukaryotic Cells by Cryo-Electron Tomography. Cells, 2019, 8, 57.	1.8	48
38	Frontiers of microscopy-based research into cellâ€“matrix adhesions. Current Opinion in Cell Biology, 2010, 22, 659-668.	2.6	47
39	Altering lamina assembly identifies lamina-dependent and -independent functions for A-type lamins. Journal of Cell Science, 2015, 128, 3607-20.	1.2	46
40	Cryo-electron tomography: gaining insight into cellular processes by structural approaches. Current Opinion in Structural Biology, 2011, 21, 670-677.	2.6	44
41	Dynamic organization of the actin system in the motile cells of Dictyostelium. Journal of Muscle Research and Cell Motility, 2002, 23, 639-649.	0.9	42
42	Advances in tomography: probing the molecular architecture of cells. Nature Reviews Molecular Cell Biology, 2012, 13, 736-742.	16.1	42
43	Structural Analysis of Supramolecular Assemblies by Cryo-Electron Tomography. Structure, 2013, 21, 1522-1530.	1.6	42
44	Microtubule organization in the final stages of cytokinesis as revealed by cryo-electron tomography. Journal of Cell Science, 2011, 124, 207-215.	1.2	40
45	Conformational states during vinculin unlocking differentially regulate focal adhesion properties. Scientific Reports, 2018, 8, 2693.	1.6	40
46	Insight into the functional organization of nuclear lamins in health and disease. Current Opinion in Cell Biology, 2018, 54, 72-79.	2.6	40
47	Nonlinear mechanics of lamin filaments and the meshwork topology build an emergent nuclear lamina. Nature Communications, 2020, 11, 6205.	5.8	40
48	Talin-activated vinculin interacts with branched actin networks to initiate bundles. ELife, 2020, 9, .	2.8	39
49	New insights into the structural organization of eukaryotic and prokaryotic cytoskeletons using cryo-electron tomography. Experimental Cell Research, 2004, 301, 38-42.	1.2	37
50	Structure and unique mechanical aspects of nuclear lamin filaments. Current Opinion in Structural Biology, 2020, 64, 152-159.	2.6	37
51	Computational analyses reveal spatial relationships between nuclear pore complexes and specific lamins. Journal of Cell Biology, 2021, 220, .	2.3	37
52	Filaments assembly of ectopically expressed Caenorhabditis elegans lamin within Xenopus oocytes. Journal of Structural Biology, 2012, 177, 113-118.	1.3	36
53	Structural and physiological phenotypes of disease-linked lamin mutations in C. elegans. Journal of Structural Biology, 2012, 177, 106-112.	1.3	35
54	Unveiling the polarity of actin filaments by cryo-electron tomography. Structure, 2021, 29, 488-498.e4.	1.6	31

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55	Lamin A/C Assembly Defects in LMNA-Congenital Muscular Dystrophy Is Responsible for the Increased Severity of the Disease Compared with Emeryâ€“Dreifuss Muscular Dystrophy. Cells, 2020, 9, 844.	1.8	29
56	Nuclear lamins: Structure and function in mechanobiology. APL Bioengineering, 2022, 6, 011503.	3.3	29
57	The Nuclear Pore Complex: Birth, Life, and Death of a Cellular Behemoth. Cells, 2022, 11, 1456.	1.8	29
58	Morphometric analysis of spread platelets identifies integrin Î±IIbÎ²3-specific contractile phenotype. Scientific Reports, 2018, 8, 5428.	1.6	28
59	Vimentin intermediate filaments and filamentous actin form unexpected interpenetrating networks that redefine the cell cortex. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115217119.	3.3	28
60	Impaired mechanical response of an EDMD mutation leads to motility phenotypes that are repaired by loss of prenylation. Journal of Cell Science, 2016, 129, 1781-91.	1.2	26
61	Structures of neurokinin 1 receptor in complex with G _q and G _s proteins reveal substance P binding mode and unique activation features. Science Advances, 2021, 7, eabk2872.	4.7	25
62	Toward correlating structure and mechanics of platelets. Cell Adhesion and Migration, 2016, 10, 568-575.	1.1	23
63	From lamins to lamina: a structural perspective. Histochemistry and Cell Biology, 2013, 140, 3-12.	0.8	22
64	Developments in cryo-electron tomography for in situ structural analysis. Archives of Biochemistry and Biophysics, 2015, 581, 78-85.	1.4	22
65	Structural heterogeneity of cellular K5/K14 filaments as revealed by cryo-electron microscopy. ELife, 2021, 10, .	2.8	22
66	Phosphorylation-Induced Mechanical Regulation ofÂIntrinsically Disordered Neurofilament Proteins. Biophysical Journal, 2017, 112, 892-900.	0.2	21
67	Gold-Tagged RNAâ€”A Probe for Macromolecular Assemblies. Journal of Structural Biology, 1999, 127, 113-119.	1.3	20
68	The macromolecular architecture of platelet-derived microparticles. Journal of Structural Biology, 2016, 193, 181-187.	1.3	19
69	Structural analysis of receptors and actin polarity in platelet protrusions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	19
70	Reconstructing adhesion structures in tissues by cryo-electron tomography of vitrified frozen sections. Journal of Structural Biology, 2012, 178, 76-83.	1.3	18
71	Tiopronin-Protected Gold Nanoparticles as a Potential Marker for Cryo-EM and Tomography. Structure, 2018, 26, 1408-1413.e3.	1.6	17
72	A lamin A/C variant causing striated muscle disease provides insights into filament organization. Journal of Cell Science, 2021, 134, .	1.2	17

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73	Cryoelectron Tomography of Eukaryotic Cells. Methods in Enzymology, 2010, 483, 245-265.	0.4	16
74	Differential cellular responses to adhesive interactions with galectin-8- and fibronectin-coated substrates. Journal of Cell Science, 2021, 134, .	1.2	16
75	Architecture and Molecular Mechanism of PAN, the Archaeal Proteasome Regulatory ATPase. Journal of Biological Chemistry, 2009, 284, 22952-22960.	1.6	14
76	Glycoprotein Ib clustering in platelets can be inhibited by Î±-linolenic acid as revealed by cryo-electron tomography. Haematologica, 2020, 105, 1660-1666.	1.7	13
77	Bend, Push, Stretch: Remarkable Structure and Mechanics of Single Intermediate Filaments and Meshworks. Cells, 2021, 10, 1960.	1.8	13
78	Insights into the gate of the nuclear pore complex. Nucleus, 2016, 7, 1-7.	0.6	12
79	Profilin 1â€“mediated cytoskeletal rearrangements regulate integrin function in mouse platelets. Blood Advances, 2018, 2, 1040-1045.	2.5	12
80	Structural basis for the activation and ligand recognition of the human oxytocin receptor. Nature Communications, 2022, 13, .	5.8	12
81	Experimental analysis of co-evolution within protein complexes: The yeast exosome as a model. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1997-2006.	1.5	10
82	The assembly of C. elegans lamins into macroscopic fibers. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 35-43.	1.5	6
83	Differential dynamics of early stages of platelet adhesion and spreading on collagen IV- and fibrinogen-coated surfaces. F1000Research, 2020, 9, 449.	0.8	6
84	Nanoscale resolution of microbial fiber degradation in action. ELife, 0, 11, .	2.8	5
85	Biomimetic nuclear lamin fibers with remarkable toughness and stiffness. International Journal of Biological Macromolecules, 2020, 163, 2060-2067.	3.6	4
86	Gold nanomaterials and their potential use as cryo-electron tomography labels. Journal of Structural Biology, 2022, 214, 107880.	1.3	3
87	Assembly and breakdown of microtubules within the midbody. Communicative and Integrative Biology, 2011, 4, 552-553.	0.6	2
88	Differential dynamics of early stages of platelet adhesion and spreading on collagen IV- and fibrinogen-coated surfaces. F1000Research, 2020, 9, 449.	0.8	2
89	Exploring the Inner Space of Cells by Cryoelectron-Tomography. Microscopy and Microanalysis, 2004, 10, 152-153.	0.2	1
90	Assembly and breakdown of microtubules within the midbody. Communicative and Integrative Biology, 2011, 4, 552-3.	0.6	1

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91	Filament assembly of the C. elegans lamin in the absence of helix 1A. Nucleus, 2022, 13, 49-57.	0.6	1