

Esben Lorentzen

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

5,102
citations

136740

32
h-index

149479

56
g-index

70
all docs

70
docs citations

70
times ranked

5176
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphoproteomics reveals that Parkinson's disease kinase LRRK2 regulates a subset of Rab GTPases. <i>ELife</i> , 2016, 5, .	2.8	766
2	A single subunit, Dis3, is essentially responsible for yeast exosome core activity. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 15-22.	3.6	381
3	Systematic proteomic analysis of LRRK2-mediated Rab GTPase phosphorylation establishes a connection to ciliogenesis. <i>ELife</i> , 2017, 6, .	2.8	344
4	The Intraflagellar Transport Machinery. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a028092.	2.3	289
5	Molecular Basis of Tubulin Transport Within the Cilium by IFT74 and IFT81. <i>Science</i> , 2013, 341, 1009-1012.	6.0	271
6	The Yeast Exosome Functions as a Macromolecular Cage to Channel RNA Substrates for Degradation. <i>Cell</i> , 2009, 139, 547-559.	13.5	225
7	The archaeal exosome core is a hexameric ring structure with three catalytic subunits. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 575-581.	3.6	198
8	Structure of the Active Subunit of the Yeast Exosome Core, Rrp44: Diverse Modes of Substrate Recruitment in the RNase II Nuclease Family. <i>Molecular Cell</i> , 2008, 29, 717-728.	4.5	175
9	Architecture and function of IFT complex proteins in ciliogenesis. <i>Differentiation</i> , 2012, 83, S12-S22.	1.0	169
10	Intraflagellar transport proteins 172, 80, 57, 54, 38, and 20 form a stable tubulin-binding IFT-B complex. <i>EMBO Journal</i> , 2016, 35, 773-790.	3.5	162
11	Trafficking of ciliary membrane proteins by the intraflagellar transport/BBSome machinery. <i>Essays in Biochemistry</i> , 2018, 62, 753-763.	2.1	120
12	Crystal structures of IFT70/52 and IFT52/46 provide insight into intraflagellar transport B core complex assembly. <i>Journal of Cell Biology</i> , 2014, 207, 269-282.	2.3	115
13	RNA channelling by the archaeal exosome. <i>EMBO Reports</i> , 2007, 8, 470-476.	2.0	108
14	Crystal structure of the intraflagellar transport complex 25/27. <i>EMBO Journal</i> , 2011, 30, 1907-1918.	3.5	108
15	Structural Basis of 3' End RNA Recognition and Exoribonucleolytic Cleavage by an Exosome RNase PH Core. <i>Molecular Cell</i> , 2005, 20, 473-481.	4.5	104
16	Intraflagellar transport complex structure and cargo interactions. <i>Cilia</i> , 2013, 2, 10.	1.8	99
17	Mutations in TRAF3IP1/IFT54 reveal a new role for IFT proteins in microtubule stabilization. <i>Nature Communications</i> , 2015, 6, 8666.	5.8	84
18	RNA polyadenylation in Archaea: not observed in <i>Haloferax</i> while the exosome polynucleotidylates RNA in <i>Sulfolobus</i> . <i>EMBO Reports</i> , 2005, 6, 1188-1193.	2.0	82

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19	Structural basis for membrane targeting of the BBSome by ARL6. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 1035-1041.	3.6	77
20	The intraflagellar transport machinery in ciliary signaling. <i>Current Opinion in Structural Biology</i> , 2016, 41, 98-108.	2.6	72
21	Biochemical Mapping of Interactions within the Intraflagellar Transport (IFT) B Core Complex. <i>Journal of Biological Chemistry</i> , 2011, 286, 26344-26352.	1.6	71
22	The Exosome and the Proteasome: Nano-Compartments for Degradation. <i>Cell</i> , 2006, 125, 651-654.	13.5	69
23	Structural Studies of Ciliary Components. <i>Journal of Molecular Biology</i> , 2012, 422, 163-180.	2.0	69
24	RNA channelling by the eukaryotic exosome. <i>EMBO Reports</i> , 2010, 11, 936-942.	2.0	68
25	Mechanism of the Schiff Base Forming Fructose-1,6-bisphosphate Aldolase: A Structural Analysis of Reaction Intermediates. <i>Biochemistry</i> , 2005, 44, 4222-4229.	1.2	62
26	Characterization of native and reconstituted exosome complexes from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Molecular Microbiology</i> , 2006, 62, 1076-1089.	1.2	51
27	Structural Basis of Allosteric Regulation and Substrate Specificity of the Non-Phosphorylating Glyceraldehyde 3-Phosphate Dehydrogenase from <i>Thermoproteus tenax</i> . <i>Journal of Molecular Biology</i> , 2004, 341, 815-828.	2.0	48
28	Structural basis of outer dynein arm intraflagellar transport by the transport adaptor protein ODA16 and the intraflagellar transport protein IFT46. <i>Journal of Biological Chemistry</i> , 2017, 292, 7462-7473.	1.6	48
29	Crystal Structure of an Archaeal Class I Aldolase and the Evolution of (12±)8 Barrel Proteins. <i>Journal of Biological Chemistry</i> , 2003, 278, 47253-47260.	1.6	45
30	Akt Regulates a Rab11-Effector Switch Required for Ciliogenesis. <i>Developmental Cell</i> , 2019, 50, 229-246.e7.	3.1	45
31	Structural organization of the RNA-degrading exosome. <i>Current Opinion in Structural Biology</i> , 2008, 18, 709-713.	2.6	44
32	Structure of Rab11-FIP3-Rabin8 reveals simultaneous binding of FIP3 and Rabin8 effectors to Rab11. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 695-702.	3.6	40
33	Binding of IFT22 to the intraflagellar transport complex is essential for flagellum assembly. <i>EMBO Journal</i> , 2019, 38, .	3.5	38
34	Getting tubulin to the tip of the cilium: One IFT train, many different tubulin cargo-binding sites?. <i>BioEssays</i> , 2014, 36, 463-467.	1.2	36
35	Crystal structure of intraflagellar transport protein 80 reveals a homo-dimer required for ciliogenesis. <i>ELife</i> , 2018, 7, .	2.8	36
36	Intraflagellar transport protein IFT52 recruits IFT46 to the basal body and flagella. <i>Journal of Cell Science</i> , 2017, 130, 1662-1674.	1.2	35

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37	Nucleoside analogue activators of cyclic AMP-independent protein kinase A of Trypanosoma. Nature Communications, 2019, 10, 1421.	5.8	33
38	<i>IFT81</i> , encoding an IFT-B core protein, as a very rare cause of a ciliopathy phenotype. Journal of Medical Genetics, 2015, 52, 657-665.	1.5	32
39	Nse5/6 inhibits the Smc5/6 ATPase and modulates DNA substrate binding. EMBO Journal, 2021, 40, e107807.	3.5	30
40	A WDR35-dependent coat protein complex transports ciliary membrane cargo vesicles to cilia. ELife, 2021, 10, .	2.8	29
41	Membrane association and remodeling by intraflagellar transport protein IFT172. Nature Communications, 2018, 9, 4684.	5.8	28
42	Human IFT52 mutations uncover a novel role for the protein in microtubule dynamics and centrosome cohesion. Human Molecular Genetics, 2019, 28, 2720-2737.	1.4	23
43	IFT proteins spatially control the geometry of cleavage furrow ingression and lumen positioning. Nature Communications, 2017, 8, 1928.	5.8	20
44	Crystal Structure of a 9-Subunit Archaeal Exosome in Pre-Catalytic States of the Phosphorolytic Reaction. Archaea, 2012, 2012, 1-7.	2.3	19
45	<i>IFT</i> proteins interact with <i>HSET</i> to promote supernumerary centrosome clustering in mitosis. EMBO Reports, 2020, 21, e49234.	2.0	19
46	Novel topography of the Rab11-effector interaction network within a ciliary membrane targeting complex. Small GTPases, 2015, 6, 165-173.	0.7	15
47	Structure of the ciliogenesis-associated CPLANE complex. Science Advances, 2022, 8, eabn0832.	4.7	15
48	The ins and outs of the Arf4-based ciliary membrane-targeting complex. Small GTPases, 2021, 12, 1-12.	0.7	13
49	Chapter 20 Expression, Reconstitution, and Structure of an Archaeal RNA Degrading Exosome. Methods in Enzymology, 2008, 447, 417-435.	0.4	12
50	Purification and crystal structure of human ODA16 : Implications for ciliary import of outer dynein arms by the intraflagellar transport machinery. Protein Science, 2020, 29, 1502-1510.	3.1	12
51	Structural insights into the architecture and assembly of eukaryotic flagella. Microbial Cell, 2020, 7, 289-299.	1.4	12
52	Recombinant Reconstitution and Purification of the IFT-B Core Complex from Chlamydomonas reinhardtii. Methods in Molecular Biology, 2016, 1454, 69-82.	0.4	7
53	Complex Reconstitution from Individual Protein Modules. Advances in Experimental Medicine and Biology, 2016, 896, 305-314.	0.8	3
54	Crystal structure of tetrameric human Rabin8 GEF domain. Proteins: Structure, Function and Bioinformatics, 2018, 86, 405-413.	1.5	3

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55	Moving proteins along in the cilium. <i>ELife</i> , 2020, 9, .	2.8	3
56	Ift88, but not Kif3a, is required for establishment of the periciliary membrane compartment. <i>Biochemical and Biophysical Research Communications</i> , 2021, 584, 19-25.	1.0	1
57	Molecular mechanisms of mRNA degradation. <i>FASEB Journal</i> , 2008, 22, 247.3.	0.2	0
58	Structural insights into the architecture and assembly of eukaryotic flagella. <i>Microbial Cell</i> , 2020, 7, 289-299.	1.4	0