Karl-Ferdinand Lechtreck

List of Publications by Citations

62	2,899	27	53
papers	citations	h-index	g-index
72	3,544	5.4	5.53
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
62	CEP290 tethers flagellar transition zone microtubules to the membrane and regulates flagellar protein content. *Journal of Cell Biology*, **2010**, 190, 927-40	7.3	294
61	The Chlamydomonas reinhardtii BBSome is an IFT cargo required for export of specific signaling proteins from flagella. *Journal of Cell Biology*, **2009**, 187, 1117-32	7.3	263
60	Mutations in Hydin impair ciliary motility in mice. *Journal of Cell Biology*, **2008**, 180, 633-43	7.3	207
59	IFT-Cargo Interactions and Protein Transport in Cilia. *Trends in Biochemical Sciences*, **2015**, 40, 765-778	10.3	192
58	Chlamydomonas reinhardtii hydin is a central pair protein required for flagellar motility. *Journal of Cell Biology*, **2007**, 176, 473-82	7.3	126
57	A differential cargo-loading model of ciliary length regulation by IFT. *Current Biology*, **2013**, 23, 2463-71	6.3	125
56	Tubulin transport by IFT is upregulated during ciliary growth by a cilium-autonomous mechanism. *Journal of Cell Biology*, **2015**, 208, 223-37	7.3	123
55	Centrin deficiency in Chlamydomonas causes defects in basal body replication, segregation and maturation. *Journal of Cell Science*, **2003**, 116, 2635-46	5.3	99
54	Cycling of the signaling protein phospholipase D through cilia requires the BBSome only for the export phase. *Journal of Cell Biology*, **2013**, 201, 249-61	7.3	98
53	Avalanche-like behavior in ciliary import. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 3925-30	11.5	82
52	The Bardet-Biedl syndrome protein complex is an adapter expanding the cargo range of intraflagellar transport trains for ciliary export. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E934-E943	11.5	72
51	Distribution of polyglutamylated tubulin in the flagellar apparatus of green flagellates. *Cytoskeleton*, **2000**, 47, 219-35		71
50	Trafficking of ciliary membrane proteins by the intraflagellar transport/BBSome machinery. *Essays in Biochemistry*, **2018**, 62, 753-763	7.6	71
49	NPHP4 controls ciliary trafficking of membrane proteins and large soluble proteins at the transition zone. *Journal of Cell Science*, **2014**, 127, 4714-27	5.3	64
48	HA-tagging of putative flagellar proteins in Chlamydomonas reinhardtii identifies a novel protein of intraflagellar transport complex B. *Cytoskeleton*, **2009**, 66, 469-82		57
47	Together, the IFT81 and IFT74 N-termini form the main module for intraflagellar transport of tubulin. *Journal of Cell Science*, **2016**, 129, 2106-19	5.3	56
46	IFT trains in different stages of assembly queue at the ciliary base for consecutive release into the cilium. *ELife*, **2017**, 6,	8.9	51

45	Purification and characterization of basal apparatuses from a flagellate green alga. *Cytoskeleton*, **1997**, 37, 72-85		50
44	Single-particle imaging reveals intraflagellar transport-independent transport and accumulation of EB1 in Chlamydomonas flagella. *Molecular Biology of the Cell*, **2016**, 27, 295-307	3.5	43
43	Evidence for a direct role of nascent basal bodies during spindle pole initiation in the green alga Spermatozopsis similis. *Protist*, **1999**, 150, 163-81	2.5	40
42	Total internal reflection fluorescence (TIRF) microscopy of Chlamydomonas flagella. *Methods in Cell Biology*, **2009**, 93, 157-77	1.8	38
41	Analysis ofChlamydomonasSF-assemblin by GFP tagging and expression of antisense constructs. *Journal of Cell Science*, **2002**, 115, 1511-1522	5.3	37
40	Analysis of Chlamydomonas SF-assemblin by GFP tagging and expression of antisense constructs. *Journal of Cell Science*, **2002**, 115, 1511-22	5.3	34
39	Flagellar central pair assembly in Chlamydomonas reinhardtii. *Cilia*, **2013**, 2, 15	5.5	33
38	Protein transport in growing and steady-state cilia. *Traffic*, **2017**, 18, 277-286	5.7	31
37	Getting tubulin to the tip of the cilium: one IFT train, many different tubulin cargo-binding sites?. *BioEssays*, **2014**, 36, 463-7	4.1	31
36	The NIT1 promoter allows inducible and reversible silencing of centrin in Chlamydomonas reinhardtii. *Eukaryotic Cell*, **2005**, 4, 1959-62		30
35	A global analysis of IFT-A function reveals specialization for transport of membrane-associated proteins into cilia. *Journal of Cell Science*, **2019**, 132,	5.3	26
34	SF-assemblin in Chlamydomonas: sequence conservation and localization during the cell cycle. *Cytoskeleton*, **1997**, 36, 190-201		26
33	In vivo imaging of IFT in Chlamydomonas flagella. *Methods in Enzymology*, **2013**, 524, 265-84	1.7	25
32	Proteins that control the geometry of microtubules at the ends of cilia. *Journal of Cell Biology*, **2018** , 217, 4298-4313	7.3	25
31	The IDA3 adapter, required for intraflagellar transport of I1 dynein, is regulated by ciliary length. *Molecular Biology of the Cell*, **2018**, 29, 886-896	3.5	24
30	In vivo analysis of outer arm dynein transport reveals cargo-specific intraflagellar transport properties. *Molecular Biology of the Cell*, **2018**, 29, 2553-2565	3.5	23
29	Cell Cycle-Related Kinase (CCRK) regulates ciliogenesis and Hedgehog signaling in mice. *PLoS Genetics*, **2017**, 13, e1006912	6	21
28	Basal Bodies as Flagella Organizing Centers. *Cells*, **2018**, 7,	7.9	20

27	THE CYTOSKELETON OF THE NAKED GREEN FLAGELLATE SPERMATOZOPSIS SIMILIS (CHLOROPHYTA):FLAGELLAR AND BASAL BODY DEVELOPMENTAL CYCLE1. *Journal of Phycology*, **1997**, 33, 254-265	3	20
26	Intraflagellar transport protein RABL5/IFT22 recruits the BBSome to the basal body through the GTPase ARL6/BBS3. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 2496-2505	11.5	19
25	Kinesin-13 regulates the quantity and quality of tubulin inside cilia. *Molecular Biology of the Cell*, **2015**, 26, 478-94	3.5	18
24	Chlamydomonas PKD2 organizes mastigonemes, hair-like glycoprotein polymers on cilia. *Journal of Cell Biology*, **2020**, 219,	7.3	18
23	GFP as a tool for the analysis of proteins in the flagellar basal apparatus of Chlamydomonas. *Cytoskeleton*, **2005**, 61, 189-200		17
22	Methods for Studying Movement of Molecules Within Cilia. *Methods in Molecular Biology*, **2016**, 1454, 83-96	1.4	16
21	Striated fiber assemblin in apicomplexan parasites. *Molecular and Biochemical Parasitology*, **2003**, 128, 95-9	1.9	16
20	In vivo analyses of radial spoke transport, assembly, repair and maintenance. *Cytoskeleton*, **2018**, 75, 352-362	2.4	14
19	Diffusion rather than intraflagellar transport likely provides most of the tubulin required for axonemal assembly in. *Journal of Cell Science*, **2020**, 133,	5.3	13
18	High-speed digital imaging of ependymal cilia in the murine brain. *Methods in Cell Biology*, **2009**, 91, 255-68	1.8	12
17	A Novel Basal Apparatus Protein of 90 kD (BAp90) from the Flagellate Green Alga Spermatozopsis similis is a Component of the Proximal Plates and Identifies the d-(dexter)Surface of the Basal Body. *Protist*, **1998**, 149, 173-84	2.5	12
16	LF4/MOK and a CDK-related kinase regulate the number and length of cilia in Tetrahymena. *PLoS Genetics*, **2019**, 15, e1008099	6	11
15	Proteins related to green algal striated fiber assemblin are present in stramenopiles and alveolates. *Protoplasma*, **2009**, 236, 97-101	3.4	11
14	Bardet-Biedl syndrome 3 protein promotes ciliary exit of the signaling protein phospholipase D via the BBSome. *ELife*, **2021**, 10,	8.9	11
13	Total internal reflection fluorescence microscopy of intraflagellar transport in Tetrahymena thermophila. *Methods in Cell Biology*, **2015**, 127, 445-56	1.8	10
12	Analysis of striated fiber formation by recombinant SF-assemblin in vitro. *Journal of Molecular Biology*, **1998**, 279, 423-38	6.5	10
11	The BBSome restricts entry of tagged carbonic anhydrase 6 into the cis-flagellum of Chlamydomonas reinhardtii. *PLoS ONE*, **2020**, 15, e0240887	3.7	10
10	IFT54 directly interacts with kinesin-II and IFT dynein to regulate anterograde intraflagellar transport. *EMBO Journal*, **2021**, 40, e105781	13	10

List of Publications

9	Basal body replication in green algae--when and where does it start?. *European Journal of Cell Biology*, **2001**, 80, 631-41	6.1	9
8	H- and Na- elicited rapid changes of the microtubule cytoskeleton in the biflagellated green alga. *ELife*, **2017**, 6,	8.9	9
7	FLAGELLAR REGENERATION IN SPERMATOZOPSIS SIMILIS (CHLOROPHYTA). *Journal of Phycology*, **2003**, 39, 918-922	3	6
6	MITOSIS IN DUNALIELLA BIOCULATA (CHLOROPHYTA): CENTRIN BUT NOT BASAL BODIES ARE AT THE SPINDLE POLES. *Journal of Phycology*, **2001**, 37, 1030-1043	3	6
5	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,	5.3	5
4	ARMC2/PF27 is an obligate cargo adapter for IFT of radial spokes.. *ELife*, **2022**, 11,	8.9	3
3	Diffusion rather than IFT provides most of the tubulin required for axonemal assembly		2
2	Characterization of Novel BBS Mutants in Chlamydomonas reinhardtii. *FASEB Journal*, **2010**, 24, lb141	0.9	
1	Cover Image, Volume 75, Issue 8. *Cytoskeleton*, **2018**, 75, C1-C1	2.4	