

# Karl-Ferdinand Lehtreck

## List of Publications by Year in descending order

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61  
papers

3,895  
citations

159585

30  
h-index

144013

57  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2671  
citing authors

#	ARTICLE	IF	CITATIONS
1	CEP290 tethers flagellar transition zone microtubules to the membrane and regulates flagellar protein content. <i>Journal of Cell Biology</i> , 2010, 190, 927-940.	5.2	345
2	The <i>Chlamydomonas reinhardtii</i> BBSome is an IFT cargo required for export of specific signaling proteins from flagella. <i>Journal of Cell Biology</i> , 2009, 187, 1117-1132.	5.2	314
3	IFT "Cargo Interactions and Protein Transport in Cilia. <i>Trends in Biochemical Sciences</i> , 2015, 40, 765-778.	7.5	282
4	Mutations in <i>Hydin</i> impair ciliary motility in mice. <i>Journal of Cell Biology</i> , 2008, 180, 633-643.	5.2	236
5	Tubulin transport by IFT is upregulated during ciliary growth by a cilium-autonomous mechanism. <i>Journal of Cell Biology</i> , 2015, 208, 223-237.	5.2	184
6	A Differential Cargo-Loading Model of Ciliary Length Regulation by IFT. <i>Current Biology</i> , 2013, 23, 2463-2471.	3.9	163
7	<i>Chlamydomonas reinhardtii</i> <i>hydin</i> is a central pair protein required for flagellar motility. <i>Journal of Cell Biology</i> , 2007, 176, 473-482.	5.2	151
8	Cycling of the signaling protein phospholipase D through cilia requires the BBSome only for the export phase. <i>Journal of Cell Biology</i> , 2013, 201, 249-261.	5.2	131
9	Trafficking of ciliary membrane proteins by the intraflagellar transport/BBSome machinery. <i>Essays in Biochemistry</i> , 2018, 62, 753-763.	4.7	120
10	Avalanche-like behavior in ciliary import. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3925-3930.	7.1	110
11	Centrin deficiency in <i>Chlamydomonas</i> causes defects in basal body replication, segregation and maturation. <i>Journal of Cell Science</i> , 2003, 116, 2635-2646.	2.0	108
12	The Bardet-Biedl syndrome protein complex is an adapter expanding the cargo range of intraflagellar transport trains for ciliary export. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E934-E943.	7.1	107
13	IFT trains in different stages of assembly queue at the ciliary base for consecutive release into the cilium. <i>ELife</i> , 2017, 6, .	6.0	90
14	Distribution of polyglutamylated tubulin in the flagellar apparatus of green flagellates. <i>Cytoskeleton</i> , 2000, 47, 219-235.	4.4	83
15	The IFT81 and IFT74 N-termini together form the major module for intraflagellar transport of tubulin. <i>Journal of Cell Science</i> , 2016, 129, 2106-19.	2.0	81
16	Nephrocystin-4 controls ciliary trafficking of membrane and large soluble proteins at the transition zone. <i>Journal of Cell Science</i> , 2014, 127, 4714-27.	2.0	80
17	HA-tagging of putative flagellar proteins in <i>Chlamydomonas reinhardtii</i> identifies a novel protein of intraflagellar transport complex B. <i>Cytoskeleton</i> , 2009, 66, 469-482.	4.4	64
18	Single-particle imaging reveals intraflagellar transport-independent transport and accumulation of EB1 in <i>Chlamydomonas</i> flagella. <i>Molecular Biology of the Cell</i> , 2016, 27, 295-307.	2.1	56

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19	Purification and characterization of basal apparatuses from a flagellate green alga. , 1997, 37, 72-85.		55
20	A global analysis of IFT-A function reveals specialization for transport of membrane-associated proteins into cilia. Journal of Cell Science, 2019, 132, .	2.0	53
21	Flagellar central pair assembly in <i>Chlamydomonas reinhardtii</i> . Cilia, 2013, 2, 15.	1.8	52
22	In vivo analysis of outer arm dynein transport reveals cargo-specific intraflagellar transport properties. Molecular Biology of the Cell, 2018, 29, 2553-2565.	2.1	47
23	Protein transport in growing and steady-state cilia. Traffic, 2017, 18, 277-286.	2.7	46
24	Proteins that control the geometry of microtubules at the ends of cilia. Journal of Cell Biology, 2018, 217, 4298-4313.	5.2	46
25	Analysis of <i>Chlamydomonas</i> SF-assemblin by GFP tagging and expression of antisense constructs. Journal of Cell Science, 2002, 115, 1511-1522.	2.0	46
26	Total Internal Reflection Fluorescence (TIRF) Microscopy of <i>Chlamydomonas</i> Flagella. Methods in Cell Biology, 2009, 93, 157-177.	1.1	43
27	Evidence for a Direct Role of Nascent Basal Bodies During Spindle Pole Initiation in the Green Alga <i>Spermatozopsis similis</i> . Protist, 1999, 150, 163-181.	1.5	41
28	<i>Chlamydomonas</i> PKD2 organizes mastigonemes, hair-like glycoprotein polymers on cilia. Journal of Cell Biology, 2020, 219, .	5.2	40
29	Analysis of <i>Chlamydomonas</i> SF-assemblin by GFP tagging and expression of antisense constructs. Journal of Cell Science, 2002, 115, 1511-22.	2.0	38
30	The IDA3 adapter, required for intraflagellar transport of I1 dynein, is regulated by ciliary length. Molecular Biology of the Cell, 2018, 29, 886-896.	2.1	37
31	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.	7.1	37
32	Getting tubulin to the tip of the cilium: One IFT train, many different tubulin cargo-binding sites?. BioEssays, 2014, 36, 463-467.	2.5	36
33	Cell Cycle-Related Kinase (CCRK) regulates ciliogenesis and Hedgehog signaling in mice. PLoS Genetics, 2017, 13, e1006912.	3.5	36
34	Diffusion rather than IFT likely provides most of the tubulin required for axonemal assembly. Journal of Cell Science, 2020, 133, .	2.0	33
35	The NIT1 Promoter Allows Inducible and Reversible Silencing of Centrin in <i>Chlamydomonas reinhardtii</i> . Eukaryotic Cell, 2005, 4, 1959-1962.	3.4	32
36	In vivo Imaging of IFT in <i>Chlamydomonas</i> Flagella. Methods in Enzymology, 2013, 524, 265-284.	1.0	31

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37	SF-assemblin in <i>Chlamydomonas</i> : Sequence conservation and localization during the cell cycle. , 1997, 36, 190-201.		30
38	<i>Chlamydomonas</i> Basal Bodies as Flagella Organizing Centers. <i>Cells</i> , 2018, 7, 79.	4.1	29
39	<i>In vivo</i> imaging shows continued association of several IFT-A, IFT-B and dynein complexes while IFT trains U-turn at the tip. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	28
40	IFT54 directly interacts with kinesin and IFT dynein to regulate anterograde intraflagellar transport. <i>EMBO Journal</i> , 2021, 40, e105781.	7.8	28
41	Kinesin-13 regulates the quantity and quality of tubulin inside cilia. <i>Molecular Biology of the Cell</i> , 2015, 26, 478-494.	2.1	27
42	LF4/MOK and a CDK-related kinase regulate the number and length of cilia in <i>Tetrahymena</i> . <i>PLoS Genetics</i> , 2019, 15, e1008099.	3.5	27
43	Bardet-Biedl syndrome 3 protein promotes ciliary exit of the signaling protein phospholipase D via the BBSome. <i>ELife</i> , 2021, 10, .	6.0	27
44	Methods for Studying Movement of Molecules Within Cilia. <i>Methods in Molecular Biology</i> , 2016, 1454, 83-96.	0.9	24
45	THE CYTOSKELETON OF THE NAKED GREEN FLAGELLATE SPERMATIZOPOUS SIMILIS (CHLOROPHYTA):FLAGELLAR AND BASAL BODY DEVELOPMENTAL CYCLE1. <i>Journal of Phycology</i> , 1997, 33, 254-265.	2.3	22
46	GFP as a tool for the analysis of proteins in the flagellar basal apparatus of <i>Chlamydomonas</i> . <i>Cytoskeleton</i> , 2005, 61, 189-200.	4.4	22
47	<i>In vivo</i> analyses of radial spoke transport, assembly, repair and maintenance. <i>Cytoskeleton</i> , 2018, 75, 352-362.	2.0	20
48	Striated fiber assemblin in apicomplexan parasites. <i>Molecular and Biochemical Parasitology</i> , 2003, 128, 95-99.	1.1	18
49	Total internal reflection fluorescence microscopy of intraflagellar transport in <i>Tetrahymena thermophila</i> . <i>Methods in Cell Biology</i> , 2015, 127, 445-456.	1.1	17
50	<i>Chlamydomonas</i> ARMC2/PF27 is an obligate cargo adapter for intraflagellar transport of radial spokes. <i>ELife</i> , 2022, 11, .	6.0	17
51	A Novel Basal Apparatus Protein of 90 kD (BAp90) from the Flagellate Green Alga <i>Spermatizopsis similis</i> is a Component of the Proximal Plates and Identifies the d-(dexter)Surface of the Basal Body. <i>Protist</i> , 1998, 149, 173-184.	1.5	13
52	High-Speed Digital Imaging of Ependymal Cilia in the Murine Brain. <i>Methods in Cell Biology</i> , 2009, 91, 255-264.	1.1	13
53	The BBSome restricts entry of tagged carbonic anhydrase 6 into the cis-flagellum of <i>Chlamydomonas reinhardtii</i> . <i>PLoS ONE</i> , 2020, 15, e0240887.	2.5	13
54	H <sup>+</sup> and Na <sup>+</sup> - elicited rapid changes of the microtubule cytoskeleton in the biflagellated green alga <i>Chlamydomonas</i> . <i>ELife</i> , 2017, 6, .	6.0	12

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55	Analysis of striated fiber formation by recombinant SF-assemblin in Vitro. Journal of Molecular Biology, 1998, 279, 423-438.	4.2	11
56	Proteins related to green algal striated fiber assemblin are present in stramenopiles and alveolates. Protoplasma, 2009, 236, 97-101.	2.1	11
57	Basal body replication in green algae – when and where does it start?. European Journal of Cell Biology, 2001, 80, 631-641.	3.6	9
58	FLAGELLAR REGENERATION IN <i>SPERMATIZOPSIS SIMILIS</i> (CHLOROPHYTA). Journal of Phycology, 2003, 39, 918-922.	2.3	9
59	MITOSIS IN <i>DUNALIELLA BIOCULATA</i> (CHLOROPHYTA): CENTRIN BUT NOT BASAL BODIES ARE AT THE SPINDLE POLES. Journal of Phycology, 2001, 37, 1030-1043.	2.3	7
60	Cover Image, Volume 75, Issue 8. Cytoskeleton, 2018, 75, C1-C1.	2.0	0
61	Characterization of Novel BBS Mutants in <i>Chlamydomonas reinhardtii</i> . FASEB Journal, 2010, 24, lb141.	0.5	0