

# Karl-Ferdinand Lehtreck

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

3,895  
citations

182225

30  
h-index

162838

57  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chlamydomonas ARMC2/PF27 is an obligate cargo adapter for intraflagellar transport of radial spokes. <i>ELife</i> , 2022, 11, .	2.8	17
2	Bardet-Biedl syndrome 3 protein promotes ciliary exit of the signaling protein phospholipase D via the BBSome. <i>ELife</i> , 2021, 10, .	2.8	27
3	<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, .	1.2	28
4	IFT54 directly interacts with kinesin-1 and IFT dynein to regulate anterograde intraflagellar transport. <i>EMBO Journal</i> , 2021, 40, e105781.	3.5	28
5	Diffusion rather than IFT likely provides most of the tubulin required for axonemal assembly. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	33
6	Intraflagellar transport protein RABL5/IFT22 recruits the BBSome to the basal body through the GTPase ARL6/BBS3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2496-2505.	3.3	37
7	<i>Chlamydomonas</i> PKD2 organizes mastigonemes, hair-like glycoprotein polymers on cilia. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	40
8	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.	1.1	13
9	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.	1.5	27
10	A global analysis of IFT-A function reveals specialization for transport of membrane-associated proteins into cilia. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	53
11	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.	0.9	37
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.	3.3	107
13	Cover Image, Volume 75, Issue 8. <i>Cytoskeleton</i> , 2018, 75, C1-C1.	1.0	0
14	Trafficking of ciliary membrane proteins by the intraflagellar transport/BBSome machinery. <i>Essays in Biochemistry</i> , 2018, 62, 753-763.	2.1	120
15	Proteins that control the geometry of microtubules at the ends of cilia. <i>Journal of Cell Biology</i> , 2018, 217, 4298-4313.	2.3	46
16	<i>Chlamydomonas</i> Basal Bodies as Flagella Organizing Centers. <i>Cells</i> , 2018, 7, 79.	1.8	29
17	<i>In vivo</i> analyses of radial spoke transport, assembly, repair and maintenance. <i>Cytoskeleton</i> , 2018, 75, 352-362.	1.0	20
18	<i>In vivo</i> analysis of outer arm dynein transport reveals cargo-specific intraflagellar transport properties. <i>Molecular Biology of the Cell</i> , 2018, 29, 2553-2565.	0.9	47

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19	Protein transport in growing and steady-state cilia. <i>Traffic</i> , 2017, 18, 277-286.	1.3	46
20	Cell Cycle-Related Kinase (CCRK) regulates ciliogenesis and Hedgehog signaling in mice. <i>PLoS Genetics</i> , 2017, 13, e1006912.	1.5	36
21	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, .	2.8	12
22	IFT trains in different stages of assembly queue at the ciliary base for consecutive release into the cilium. <i>ELife</i> , 2017, 6, .	2.8	90
23	Methods for Studying Movement of Molecules Within Cilia. <i>Methods in Molecular Biology</i> , 2016, 1454, 83-96.	0.4	24
24	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.	1.2	81
25	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.	0.9	56
26	Tubulin transport by IFT is upregulated during ciliary growth by a cilium-autonomous mechanism. <i>Journal of Cell Biology</i> , 2015, 208, 223-237.	2.3	184
27	Kinesin-13 regulates the quantity and quality of tubulin inside cilia. <i>Molecular Biology of the Cell</i> , 2015, 26, 478-494.	0.9	27
28	Total internal reflection fluorescence microscopy of intraflagellar transport in <i>Tetrahymena thermophila</i> . <i>Methods in Cell Biology</i> , 2015, 127, 445-456.	0.5	17
29	IFT Cargo Interactions and Protein Transport in Cilia. <i>Trends in Biochemical Sciences</i> , 2015, 40, 765-778.	3.7	282
30	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
31	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.	1.2	80
32	Flagellar central pair assembly in <i>Chlamydomonas reinhardtii</i> . <i>Cilia</i> , 2013, 2, 15.	1.8	52
33	A Differential Cargo-Loading Model of Ciliary Length Regulation by IFT. <i>Current Biology</i> , 2013, 23, 2463-2471.	1.8	163
34	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.	2.3	131
35	In vivo Imaging of IFT in <i>Chlamydomonas</i> Flagella. <i>Methods in Enzymology</i> , 2013, 524, 265-284.	0.4	31
36	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.	3.3	110

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37	CEP290 tethers flagellar transition zone microtubules to the membrane and regulates flagellar protein content. <i>Journal of Cell Biology</i> , 2010, 190, 927-940.	2.3	345
38	Characterization of Novel BBS Mutants in <i>Chlamydomonas reinhardtii</i> . <i>FASEB Journal</i> , 2010, 24, 1b141.	0.2	0
39	Total Internal Reflection Fluorescence (TIRF) Microscopy of <i>Chlamydomonas</i> Flagella. <i>Methods in Cell Biology</i> , 2009, 93, 157-177.	0.5	43
40	High-Speed Digital Imaging of Ependymal Cilia in the Murine Brain. <i>Methods in Cell Biology</i> , 2009, 91, 255-264.	0.5	13
41	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.	2.3	314
42	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
43	Proteins related to green algal striated fiber assemblin are present in stramenopiles and alveolates. <i>Protoplasma</i> , 2009, 236, 97-101.	1.0	11
44	Mutations in <i>Hydin</i> impair ciliary motility in mice. <i>Journal of Cell Biology</i> , 2008, 180, 633-643.	2.3	236
45	<i>Chlamydomonas reinhardtii</i> hydin is a central pair protein required for flagellar motility. <i>Journal of Cell Biology</i> , 2007, 176, 473-482.	2.3	151
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	The NIT1 Promoter Allows Inducible and Reversible Silencing of Centrin in <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2005, 4, 1959-1962.	3.4	32
48	Striated fiber assemblin in apicomplexan parasites. <i>Molecular and Biochemical Parasitology</i> , 2003, 128, 95-99.	0.5	18
49	FLAGELLAR REGENERATION IN <i>SPERMATIZOZOPSIS SIMILIS</i> (CHLOROPHYTA). <i>Journal of Phycology</i> , 2003, 39, 918-922.	1.0	9
50	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.	1.2	108
51	Analysis of <i>Chlamydomonas</i> SF-assemblin by GFP tagging and expression of antisense constructs. <i>Journal of Cell Science</i> , 2002, 115, 1511-1522.	1.2	46
52	Analysis of <i>Chlamydomonas</i> SF-assemblin by GFP tagging and expression of antisense constructs. <i>Journal of Cell Science</i> , 2002, 115, 1511-22.	1.2	38
53	MITOSIS IN <i>DUNALIELLA BIOCULATA</i> (CHLOROPHYTA): CENTRIN BUT NOT BASAL BODIES ARE AT THE SPINDLE POLES. <i>Journal of Phycology</i> , 2001, 37, 1030-1043.	1.0	7
54	Basal body replication in green algae – when and where does it start?. <i>European Journal of Cell Biology</i> , 2001, 80, 631-641.	1.6	9

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55	Distribution of polyglutamylated tubulin in the flagellar apparatus of green flagellates. Cytoskeleton, 2000, 47, 219-235.	4.4	83
56	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.	0.6	41
57	A Novel Basal Apparatus Protein of 90 kD (BAp90) from the Flagellate Green Alga <i>Spermatozopsis similis</i> is a Component of the Proximal Plates and Identifies the d-(dexter)Surface of the Basal Body. Protist, 1998, 149, 173-184.	0.6	13
58	Analysis of striated fiber formation by recombinant SF-assemblin in Vitro. Journal of Molecular Biology, 1998, 279, 423-438.	2.0	11
59	THE CYTOSKELETON OF THE NAKED GREEN FLAGELLATE SPERMATZOPSIS SIMILIS (CHLOROPHYTA):FLAGELLAR AND BASAL BODY DEVELOPMENTAL CYCLE1. Journal of Phycology, 1997, 33, 254-265.	1.0	22
60	SF-assemblin in <i>Chlamydomonas</i> : Sequence conservation and localization during the cell cycle. , 1997, 36, 190-201.		30
61	Purification and characterization of basal apparatuses from a flagellate green alga. , 1997, 37, 72-85.		55