

Kaspar Locher

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

5,982
citations

26
h-index

71
g-index

71
ext. papers

6,904
ext. citations

17.2
avg, IF

6.46
L-index

#	Paper	IF	Citations
52	Generation of nanobodies targeting the human, transcobalamin-mediated vitamin B uptake route.. <i>FASEB Journal</i> , 2022 , 36, e22222	0.9	
51	Production of Human ABC Transporters and Oligosaccharyltransferase Complexes for Structural Studies. <i>Methods in Molecular Biology</i> , 2022 , 273-294	1.4	
50	Development of a universal nanobody-binding Fab module for fiducial-assisted cryo-EM studies of membrane proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
49	Membrane lipids and transporter function. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021 , 1867, 166079	6.9	7
48	Structural Basis of Drug Recognition by the Multidrug Transporter ABCG2. <i>Journal of Molecular Biology</i> , 2021 , 433, 166980	6.5	15
47	Structures of ABCG2 under turnover conditions reveal a key step in the drug transport mechanism. <i>Nature Communications</i> , 2021 , 12, 4376	17.4	8
46	Substrate specificities and reaction kinetics of the yeast oligosaccharyltransferase isoforms. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100809	5.4	0
45	Structures of ABCB4 provide insight into phosphatidylcholine translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
44	Structure of the Human Cholesterol Transporter ABCG1. <i>Journal of Molecular Biology</i> , 2021 , 433, 167218.5	6.5	2
43	Structure and mechanism of the ER-based glucosyltransferase ALG6. <i>Nature</i> , 2020 , 579, 443-447	50.4	21
42	Tariquidar-related triazoles as potent, selective and stable inhibitors of ABCG2 (BCRP). <i>European Journal of Medicinal Chemistry</i> , 2020 , 191, 112133	6.8	13
41	Structure of the human lipid exporter ABCB4 in a lipid environment. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 62-70	17.6	33
40	Cryo-EM structures reveal distinct mechanisms of inhibition of the human multidrug transporter ABCB1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26245-26253	11.5	50
39	Structure of Outward-Facing PglK and Molecular Dynamics of Lipid-Linked Oligosaccharide Recognition and Translocation. <i>Structure</i> , 2019 , 27, 669-678.e5	5.2	20
38	Structural insight into substrate and inhibitor discrimination by human P-glycoprotein. <i>Science</i> , 2019 , 363, 753-756	33.3	202
37	Cryo-electron microscopy structures of human oligosaccharyltransferase complexes OST-A and OST-B. <i>Science</i> , 2019 , 366, 1372-1375	33.3	38
36	Structure of a zosuquidar and UIC2-bound human-mouse chimeric ABCB1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1973-E1982	11.5	104

35	Structural basis of the molecular ruler mechanism of a bacterial glycosyltransferase. <i>Nature Communications</i> , 2018 , 9, 445	17.4	17
34	Structure of the yeast oligosaccharyltransferase complex gives insight into eukaryotic N-glycosylation. <i>Science</i> , 2018 , 359, 545-550	33.3	104
33	Structural basis of small-molecule inhibition of human multidrug transporter ABCG2. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 333-340	17.6	168
32	Binding Specificities of Nanobody-Membrane Protein Complexes Obtained from Chemical Cross-Linking and High-Mass MALDI Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 5306-5313	7.8	8
31	Structure of bacterial oligosaccharyltransferase PglB bound to a reactive LLO and an inhibitory peptide. <i>Scientific Reports</i> , 2018 , 8, 16297	4.9	17
30	Cryo-EM structures of a human ABCG2 mutant trapped in ATP-bound and substrate-bound states. <i>Nature</i> , 2018 , 563, 426-430	50.4	119
29	Conformational Change of a Tryptophan Residue in BtuF Facilitates Binding and Transport of Cobinamide by the Vitamin B12 Transporter BtuCD-F. <i>Scientific Reports</i> , 2017 , 7, 41575	4.9	14
28	Structural basis of inhibition of lipid-linked oligosaccharide flippase PglK by a conformational nanobody. <i>Scientific Reports</i> , 2017 , 7, 46641	4.9	21
27	Chemo-enzymatic synthesis of lipid-linked GlcNAc2Man5 oligosaccharides using recombinant Alg1, Alg2 and Alg11 proteins. <i>Glycobiology</i> , 2017 , 27, 726-733	5.8	19
26	Structure of the human multidrug transporter ABCG2. <i>Nature</i> , 2017 , 546, 504-509	50.4	246
25	Molecular basis of lipid-linked oligosaccharide recognition and processing by bacterial oligosaccharyltransferase. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 1100-1106	17.6	51
24	Structure of the human transcobalamin beta domain in four distinct states. <i>PLoS ONE</i> , 2017 , 12, e0184932	3.7	4
23	Structural basis of nanobody-mediated blocking of BtuF, the cognate substrate-binding protein of the Escherichia coli vitamin B12 transporter BtuCD. <i>Scientific Reports</i> , 2017 , 7, 14296	4.9	10
22	Characterization of the single-subunit oligosaccharyltransferase STT3A from Trypanosoma brucei using synthetic peptides and lipid-linked oligosaccharide analogs. <i>Glycobiology</i> , 2017 , 27, 525-535	5.8	19
21	Structural basis of transcobalamin recognition by human CD320 receptor. <i>Nature Communications</i> , 2016 , 7, 12100	17.4	22
20	Mechanistic diversity in ATP-binding cassette (ABC) transporters. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 487-93	17.6	433
19	Role of Multidrug Resistance Protein 3 in Antifungal-Induced Cholestasis. <i>Molecular Pharmacology</i> , 2016 , 90, 23-34	4.3	32
18	Structure and mechanism of an active lipid-linked oligosaccharide flippase. <i>Nature</i> , 2015 , 524, 433-8	50.4	159

17	Structure of AMP-PNP-bound BtuCD and mechanism of ATP-powered vitamin B12 transport by BtuCD-F. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 1097-9	17.6	56
16	A catalytically essential motif in external loop 5 of the bacterial oligosaccharyltransferase PglB. <i>Journal of Biological Chemistry</i> , 2014 , 289, 735-46	5.4	22
15	Unexpected reactivity and mechanism of carboxamide activation in bacterial N-linked protein glycosylation. <i>Nature Communications</i> , 2013 , 4, 2627	17.4	48
14	Mechanism of bacterial oligosaccharyltransferase: in vitro quantification of sequon binding and catalysis. <i>Journal of Biological Chemistry</i> , 2013 , 288, 8849-61	5.4	65
13	Structure of AMP-PNP-bound vitamin B12 transporter BtuCD-F. <i>Nature</i> , 2012 , 490, 367-72	50.4	134
12	Asymmetric states of vitamin B12 transporter BtuCD are not discriminated by its cognate substrate binding protein BtuF. <i>FEBS Letters</i> , 2012 , 586, 972-6	3.8	26
11	X-ray structure of a bacterial oligosaccharyltransferase. <i>Nature</i> , 2011 , 474, 350-5	50.4	279
10	A distinct mechanism for the ABC transporter BtuCD-BtuF revealed by the dynamics of complex formation. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 332-8	17.6	87
9	Review. Structure and mechanism of ATP-binding cassette transporters. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 239-45	5.8	283
8	Structure of an ABC transporter in complex with its binding protein. <i>Nature</i> , 2007 , 446, 213-6	50.4	398
7	Asymmetry in the structure of the ABC transporter-binding protein complex BtuCD-BtuF. <i>Science</i> , 2007 , 317, 1387-90	33.3	239
6	Structure of a bacterial multidrug ABC transporter. <i>Nature</i> , 2006 , 443, 180-5	50.4	1071
5	In vitro functional characterization of BtuCD-F, the Escherichia coli ABC transporter for vitamin B12 uptake. <i>Biochemistry</i> , 2005 , 44, 16301-9	3.2	130
4	The structure of Escherichia coli BtuF and binding to its cognate ATP binding cassette transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 16642-7	11.5	193
3	The E. coli BtuCD structure: a framework for ABC transporter architecture and mechanism. <i>Science</i> , 2002 , 296, 1091-8	33.3	962
2	Structural basis of drug recognition by the multidrug transporter ABCG2		1
1	Generation of nanobodies targeting the human, transcobalamin-mediated vitamin B12 uptake route		1