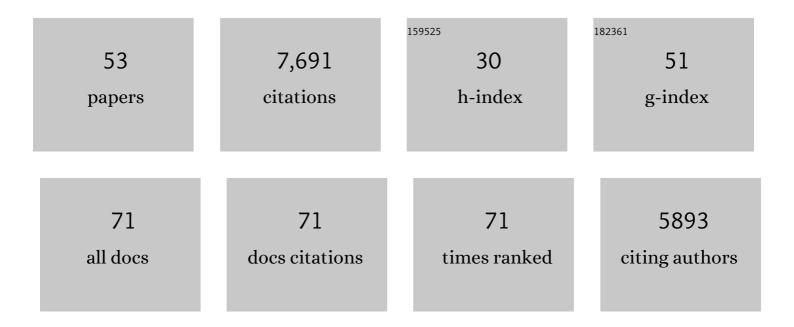
## Kaspar Locher

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6322910/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Structure of a bacterial multidrug ABC transporter. Nature, 2006, 443, 180-185.	13.7	1,200
2	The E. coli BtuCD Structure: A Framework for ABC Transporter Architecture and Mechanism. Science, 2002, 296, 1091-1098.	6.0	1,039
3	Mechanistic diversity in ATP-binding cassette (ABC) transporters. Nature Structural and Molecular Biology, 2016, 23, 487-493.	3.6	612
4	Structure of an ABC transporter in complex with its binding protein. Nature, 2007, 446, 213-216.	13.7	441
5	Structure and mechanism of ATP-binding cassette transporters. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 239-245.	1.8	344
6	Structure of the human multidrug transporter ABCG2. Nature, 2017, 546, 504-509.	13.7	332
7	Structural insight into substrate and inhibitor discrimination by human P-glycoprotein. Science, 2019, 363, 753-756.	6.0	330
8	X-ray structure of a bacterial oligosaccharyltransferase. Nature, 2011, 474, 350-355.	13.7	323
9	Asymmetry in the Structure of the ABC Transporter-Binding Protein Complex BtuCD-BtuF. Science, 2007, 317, 1387-1390.	6.0	260
10	Structural basis of small-molecule inhibition of human multidrug transporter ABCG2. Nature Structural and Molecular Biology, 2018, 25, 333-340.	3.6	258
11	The structure of Escherichia coli BtuF and binding to its cognate ATP binding cassette transporter. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16642-16647.	3.3	209
12	Cryo-EM structures of a human ABCG2 mutant trapped in ATP-bound and substrate-bound states. Nature, 2018, 563, 426-430.	13.7	188
13	Structure and mechanism of an active lipid-linked oligosaccharide flippase. Nature, 2015, 524, 433-438.	13.7	184
14	Structure of the yeast oligosaccharyltransferase complex gives insight into eukaryotic N-glycosylation. Science, 2018, 359, 545-550.	6.0	157
15	Structure of AMP-PNP-bound vitamin B12 transporter BtuCD–F. Nature, 2012, 490, 367-372.	13.7	153
16	Structure of a zosuquidar and UIC2-bound human-mouse chimeric ABCB1. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1973-E1982.	3.3	153
17	In Vitro Functional Characterization of BtuCD-F, theEscherichia coliABC Transporter for Vitamin B12Uptakeâ€. Biochemistry, 2005, 44, 16301-16309.	1.2	146
18	Cryo-EM structures reveal distinct mechanisms of inhibition of the human multidrug transporter ABCB1. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26245-26253.	3.3	137

KASPAR LOCHER

#	Article	IF	CITATIONS
19	A distinct mechanism for the ABC transporter BtuCD–BtuF revealed by the dynamics of complex formation. Nature Structural and Molecular Biology, 2010, 17, 332-338.	3.6	105
20	Cryo–electron microscopy structures of human oligosaccharyltransferase complexes OST-A and OST-B. Science, 2019, 366, 1372-1375.	6.0	77
21	Mechanism of Bacterial Oligosaccharyltransferase. Journal of Biological Chemistry, 2013, 288, 8849-8861.	1.6	72
22	Molecular basis of lipid-linked oligosaccharide recognition and processing by bacterial oligosaccharyltransferase. Nature Structural and Molecular Biology, 2017, 24, 1100-1106.	3.6	68
23	Structure of the human lipid exporter ABCB4 in a lipid environment. Nature Structural and Molecular Biology, 2020, 27, 62-70.	3.6	68
24	Structure of AMP-PNP–bound BtuCD and mechanism of ATP-powered vitamin B12 transport by BtuCD–F. Nature Structural and Molecular Biology, 2014, 21, 1097-1099.	3.6	65
25	Unexpected reactivity and mechanism of carboxamide activation in bacterial N-linked protein glycosylation. Nature Communications, 2013, 4, 2627.	5.8	53
26	Structure and mechanism of the ER-based glucosyltransferase ALG6. Nature, 2020, 579, 443-447.	13.7	52
27	Structural Basis of Drug Recognition by the Multidrug Transporter ABCG2. Journal of Molecular Biology, 2021, 433, 166980.	2.0	52
28	Structures of ABCG2 under turnover conditions reveal a key step in the drug transport mechanism. Nature Communications, 2021, 12, 4376.	5.8	46
29	Development of a universal nanobody-binding Fab module for fiducial-assisted cryo-EM studies of membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	40
30	Structural basis of transcobalamin recognition by human CD320 receptor. Nature Communications, 2016, 7, 12100.	5.8	39
31	Role of Multidrug Resistance Protein 3 in Antifungal-Induced Cholestasis. Molecular Pharmacology, 2016, 90, 23-34.	1.0	39
32	Chemo-enzymatic synthesis of lipid-linked GlcNAc2Man5 oligosaccharides using recombinant Alg1, Alg2 and Alg11 proteins. Glycobiology, 2017, 27, 726-733.	1.3	33
33	Characterization of the single-subunit oligosaccharyltransferase STT3A from Trypanosoma brucei using synthetic peptides and lipid-linked oligosaccharide analogs. Glycobiology, 2017, 27, 525-535.	1.3	31
34	Structural basis of the molecular ruler mechanism of a bacterial glycosyltransferase. Nature Communications, 2018, 9, 445.	5.8	31
35	Membrane lipids and transporter function. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166079.	1.8	31
36	Asymmetric states of vitamin B <sub>12</sub> transporter BtuCD are not discriminated by its cognate substrate binding protein BtuF. FEBS Letters, 2012, 586, 972-976.	1.3	29

KASPAR LOCHER

#	Article	IF	CITATIONS
37	Structure of Outward-Facing PglK and Molecular Dynamics of Lipid-Linked Oligosaccharide Recognition and Translocation. Structure, 2019, 27, 669-678.e5.	1.6	29
38	A Catalytically Essential Motif in External Loop 5 of the Bacterial Oligosaccharyltransferase PglB. Journal of Biological Chemistry, 2014, 289, 735-746.	1.6	26
39	Structure of bacterial oligosaccharyltransferase PglB bound to a reactive LLO and an inhibitory peptide. Scientific Reports, 2018, 8, 16297.	1.6	26
40	Discovery and Characterization of Potent Dual P-Glycoprotein and CYP3A4 Inhibitors: Design, Synthesis, Cryo-EM Analysis, and Biological Evaluations. Journal of Medicinal Chemistry, 2022, 65, 191-216.	2.9	25
41	Structures of ABCB4 provide insight into phosphatidylcholine translocation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
42	Structural basis of inhibition of lipid-linked oligosaccharide flippase PglK by a conformational nanobody. Scientific Reports, 2017, 7, 46641.	1.6	23
43	Tariquidar-related triazoles as potent, selective and stable inhibitors of ABCC2 (BCRP). European Journal of Medicinal Chemistry, 2020, 191, 112133.	2.6	22
44	Structure of the Human Cholesterol Transporter ABCG1. Journal of Molecular Biology, 2021, 433, 167218.	2.0	22
45	Structure of human NTCP reveals the basis of recognition and sodium-driven transport of bile salts into the liver. Cell Research, 2022, 32, 773-776.	5.7	21
46	Structural basis of nanobody-mediated blocking of BtuF, the cognate substrate-binding protein of the Escherichia coli vitamin B12 transporter BtuCD. Scientific Reports, 2017, 7, 14296.	1.6	20
47	Conformational Change of a Tryptophan Residue in BtuF Facilitates Binding and Transport of Cobinamide by the Vitamin B12 Transporter BtuCD-F. Scientific Reports, 2017, 7, 41575.	1.6	18
48	Binding Specificities of Nanobody•Membrane Protein Complexes Obtained from Chemical Cross-Linking and High-Mass MALDI Mass Spectrometry. Analytical Chemistry, 2018, 90, 5306-5313.	3.2	15
49	Substrate specificities and reaction kinetics of the yeast oligosaccharyltransferase isoforms. Journal of Biological Chemistry, 2021, 296, 100809.	1.6	6
50	Structure of the human transcobalamin beta domain in four distinct states. PLoS ONE, 2017, 12, e0184932.	1,1	5
51	Functional analysis of Ost3p and Ost6p containing yeast oligosaccharyltransferases. Glycobiology, 2021, 31, 1604-1615.	1.3	4
52	STRUCTURES AND REACTION MECHANISMS OF ABC TRANSPORTERS. , 2014, , .		0
53	Generation of nanobodies targeting the human, transcobalaminâ€mediated vitamin B <sub>12</sub> uptake route. FASEB Journal, 2022, 36, e22222.	0.2	0