

Kaspar Locher

List of Publications by Year in descending order

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53
papers

7,691
citations

159525

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182361

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71
docs citations

71
times ranked

5893
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of nanobodies targeting the human, transcobalaminâ€mediated vitamin B ₁₂ uptake route. FASEB Journal, 2022, 36, e22222.	0.2	0
2	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
3	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
4	Substrate specificities and reaction kinetics of the yeast oligosaccharyltransferase isoforms. Journal of Biological Chemistry, 2021, 296, 100809.	1.6	6
5	Membrane lipids and transporter function. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166079.	1.8	31
6	Structural Basis of Drug Recognition by the Multidrug Transporter ABCG2. Journal of Molecular Biology, 2021, 433, 166980.	2.0	52
7	Structures of ABCG2 under turnover conditions reveal a key step in the drug transport mechanism. Nature Communications, 2021, 12, 4376.	5.8	46
8	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
9	Structure of the Human Cholesterol Transporter ABCG1. Journal of Molecular Biology, 2021, 433, 167218.	2.0	22
10	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
11	Functional analysis of Ost3p and Ost6p containing yeast oligosaccharyltransferases. Glycobiology, 2021, 31, 1604-1615.	1.3	4
12	Structure of the human lipid exporter ABCB4 in a lipid environment. Nature Structural and Molecular Biology, 2020, 27, 62-70.	3.6	68
13	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
14	Structure and mechanism of the ER-based glucosyltransferase ALG6. Nature, 2020, 579, 443-447.	13.7	52
15	Tariquidar-related triazoles as potent, selective and stable inhibitors of ABCG2 (BCRP). European Journal of Medicinal Chemistry, 2020, 191, 112133.	2.6	22
16	Structure of Outward-Facing PglK and Molecular Dynamics of Lipid-Linked Oligosaccharide Recognition and Translocation. Structure, 2019, 27, 669-678.e5.	1.6	29
17	Structural insight into substrate and inhibitor discrimination by human P-glycoprotein. Science, 2019, 363, 753-756.	6.0	330
18	Cryoâ€electron microscopy structures of human oligosaccharyltransferase complexes OST-A and OST-B. Science, 2019, 366, 1372-1375.	6.0	77

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19	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.	3.3	153
20	Structural basis of the molecular ruler mechanism of a bacterial glycosyltransferase. <i>Nature Communications</i> , 2018, 9, 445.	5.8	31
21	Structure of the yeast oligosaccharyltransferase complex gives insight into eukaryotic N-glycosylation. <i>Science</i> , 2018, 359, 545-550.	6.0	157
22	Structural basis of small-molecule inhibition of human multidrug transporter ABCG2. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 333-340.	3.6	258
23	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.	3.2	15
24	Structure of bacterial oligosaccharyltransferase PglB bound to a reactive LLO and an inhibitory peptide. <i>Scientific Reports</i> , 2018, 8, 16297.	1.6	26
25	Cryo-EM structures of a human ABCG2 mutant trapped in ATP-bound and substrate-bound states. <i>Nature</i> , 2018, 563, 426-430.	13.7	188
26	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.	1.6	18
27	Structural basis of inhibition of lipid-linked oligosaccharide flippase PglK by a conformational nanobody. <i>Scientific Reports</i> , 2017, 7, 46641.	1.6	23
28	Chemo-enzymatic synthesis of lipid-linked GlcNAc2Man5 oligosaccharides using recombinant Alg1, Alg2 and Alg11 proteins. <i>Glycobiology</i> , 2017, 27, 726-733.	1.3	33
29	Structure of the human multidrug transporter ABCG2. <i>Nature</i> , 2017, 546, 504-509.	13.7	332
30	Molecular basis of lipid-linked oligosaccharide recognition and processing by bacterial oligosaccharyltransferase. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 1100-1106.	3.6	68
31	Structural basis of nanobody-mediated blocking of BtuF, the cognate substrate-binding protein of the <i>Escherichia coli</i> vitamin B12 transporter BtuCD. <i>Scientific Reports</i> , 2017, 7, 14296.	1.6	20
32	Characterization of the single-subunit oligosaccharyltransferase STT3A from <i>Trypanosoma brucei</i> using synthetic peptides and lipid-linked oligosaccharide analogs. <i>Glycobiology</i> , 2017, 27, 525-535.	1.3	31
33	Structure of the human transcobalamin beta domain in four distinct states. <i>PLoS ONE</i> , 2017, 12, e0184932.	1.1	5
34	Structural basis of transcobalamin recognition by human CD320 receptor. <i>Nature Communications</i> , 2016, 7, 12100.	5.8	39
35	Mechanistic diversity in ATP-binding cassette (ABC) transporters. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 487-493.	3.6	612
36	Role of Multidrug Resistance Protein 3 in Antifungal-Induced Cholestasis. <i>Molecular Pharmacology</i> , 2016, 90, 23-34.	1.0	39

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37	Structure and mechanism of an active lipid-linked oligosaccharide flippase. <i>Nature</i> , 2015, 524, 433-438.	13.7	184
38	STRUCTURES AND REACTION MECHANISMS OF ABC TRANSPORTERS. , 2014, , .		0
39	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, 1097-1099.	3.6	65
40	A Catalytically Essential Motif in External Loop 5 of the Bacterial Oligosaccharyltransferase PglB. <i>Journal of Biological Chemistry</i> , 2014, 289, 735-746.	1.6	26
41	Unexpected reactivity and mechanism of carboxamide activation in bacterial N-linked protein glycosylation. <i>Nature Communications</i> , 2013, 4, 2627.	5.8	53
42	Mechanism of Bacterial Oligosaccharyltransferase. <i>Journal of Biological Chemistry</i> , 2013, 288, 8849-8861.	1.6	72
43	Structure of AMP-PNP-bound vitamin B12 transporter BtuCD-F. <i>Nature</i> , 2012, 490, 367-372.	13.7	153
44	Asymmetric states of vitamin B ₁₂ transporter BtuCD are not discriminated by its cognate substrate binding protein BtuF. <i>FEBS Letters</i> , 2012, 586, 972-976.	1.3	29
45	X-ray structure of a bacterial oligosaccharyltransferase. <i>Nature</i> , 2011, 474, 350-355.	13.7	323
46	A distinct mechanism for the ABC transporter BtuCD-F revealed by the dynamics of complex formation. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 332-338.	3.6	105
47	Structure and mechanism of ATP-binding cassette transporters. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 239-245.	1.8	344
48	Asymmetry in the Structure of the ABC Transporter-Binding Protein Complex BtuCD-BtuF. <i>Science</i> , 2007, 317, 1387-1390.	6.0	260
49	Structure of an ABC transporter in complex with its binding protein. <i>Nature</i> , 2007, 446, 213-216.	13.7	441
50	Structure of a bacterial multidrug ABC transporter. <i>Nature</i> , 2006, 443, 180-185.	13.7	1,200
51	In Vitro Functional Characterization of BtuCD-F, the <i>Escherichia coli</i> ABC Transporter for Vitamin B12 Uptake. <i>Biochemistry</i> , 2005, 44, 16301-16309.	1.2	146
52	The structure of <i>Escherichia coli</i> 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, 16642-16647.	3.3	209
53	The <i>E. coli</i> BtuCD Structure: A Framework for ABC Transporter Architecture and Mechanism. <i>Science</i> , 2002, 296, 1091-1098.	6.0	1,039