

# Lutz Schmitt

## List of Publications by Year in descending order

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157  
papers

6,729  
citations

81743

39  
h-index

76769

74  
g-index

169  
all docs

169  
docs citations

169  
times ranked

6707  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification and Surface Localization of the Hemolysin A Type I Secretion System at the Endogenous Level and under Conditions of Overexpression. <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0189621.	1.4	0
2	Optimized Hemolysin Type 1 Secretion System in <i>Escherichia coli</i> by Directed Evolution of the Hly Enhancer Fragment and Including a Terminator Region. <i>ChemBioChem</i> , 2022, , .	1.3	3
3	A phospholipase B from <i>Pseudomonas aeruginosa</i> with activity towards endogenous phospholipids affects biofilm assembly. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159101.	1.2	5
4	Flipping and other astonishing transporter dance moves in fungal drug resistance. <i>BioEssays</i> , 2022, 44, e2200035.	1.2	6
5	A New Twist in ABC Transporter Mediated Multidrug Resistance – Pdr5 is a Drug/proton Co-transporter. <i>Journal of Molecular Biology</i> , 2022, 434, 167669.	2.0	6
6	A Mademoiselle domain binding platform links the key RNA transporter to endosomes. <i>PLoS Genetics</i> , 2022, 18, e1010269.	1.5	3
7	The ABC transporter G subfamily in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 92-106.	2.4	47
8	Structure and Function of Hepatobiliary ATP Binding Cassette Transporters. <i>Chemical Reviews</i> , 2021, 121, 5240-5288.	23.0	38
9	New developments in RiPP discovery, enzymology and engineering. <i>Natural Product Reports</i> , 2021, 38, 130-239.	5.2	412
10	Monomeric bile acids modulate the ATPase activity of detergent-solubilized ABCB4/MDR3. <i>Journal of Lipid Research</i> , 2021, 62, 100087.	2.0	3
11	Importance of the leader peptide sequence on the lanthipeptide secretion level. <i>FEBS Journal</i> , 2021, 288, 4348-4363.	2.2	6
12	Numaswitch: an efficient high-titer expression platform to produce peptides and small proteins. <i>AMB Express</i> , 2021, 11, 48.	1.4	7
13	The many facets of bile acids in the physiology and pathophysiology of the human liver. <i>Biological Chemistry</i> , 2021, 402, 1047-1062.	1.2	5
14	Evidence for a credit-card-swipe mechanism in the human PC floppase ABCB4. <i>Structure</i> , 2021, 29, 1144-1155.e5.	1.6	11
15	Structure and efflux mechanism of the yeast pleiotropic drug resistance transporter Pdr5. <i>Nature Communications</i> , 2021, 12, 5254.	5.8	51
16	Die NRW-Forschungsschule BioStruct – Neue Wege interdisziplinärer Graduiertenausbildung an der Heinrich-Heine-Universität Düsseldorf. , 2021, , 555-562.		0
17	Identity Determinants of the Translocation Signal for a Type 1 Secretion System. <i>Frontiers in Physiology</i> , 2021, 12, 804646.	1.3	4
18	Biotechnological applications of type 1 secretion systems. <i>Biotechnology Advances</i> , 2021, 53, 107864.	6.0	8

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19	Scale-up of a Type I secretion system in <i>E. coli</i> using a defined mineral medium. <i>Biotechnology Progress</i> , 2020, 36, e2911.	1.3	8
20	Structural and functional diversity calls for a new classification of ABC transporters. <i>FEBS Letters</i> , 2020, 594, 3767-3775.	1.3	169
21	Self-immunity to antibacterial peptides by ABC transporters. <i>FEBS Letters</i> , 2020, 594, 3920-3942.	1.3	28
22	Insights in the Antimicrobial Potential of the Natural Nisin Variant Nisin H. <i>Frontiers in Microbiology</i> , 2020, 11, 573614.	1.5	10
23	The role of the degenerate nucleotide binding site in type I ABC exporters. <i>FEBS Letters</i> , 2020, 594, 3815-3838.	1.3	36
24	Impact of the nisin modification machinery on the transport kinetics of NisT. <i>Scientific Reports</i> , 2020, 10, 12295.	1.6	12
25	Mass spectrometry-based abundance atlas of ABC transporters in human liver, gut, kidney, brain and skin. <i>FEBS Letters</i> , 2020, 594, 4134-4150.	1.3	21
26	Stimulation of ABCB4/MDR3 ATPase activity requires an intact phosphatidylcholine lipid. <i>Journal of Lipid Research</i> , 2020, 61, 1605-1616.	2.0	7
27	A Structural View on the Maturation of Lanthipeptides. <i>Frontiers in Microbiology</i> , 2020, 11, 1183.	1.5	19
28	Lethal (2) giant discs (Lgd)/CC2D1 is required for the full activity of the ESCRT machinery. <i>BMC Biology</i> , 2020, 18, 200.	1.7	5
29	Shaping the lipid composition of bacterial membranes for membrane protein production. <i>Microbial Cell Factories</i> , 2019, 18, 131.	1.9	17
30	An A666G mutation in transmembrane helix 5 of the yeast multidrug transporter Pdr5 increases drug efflux by enhancing cooperativity between transport sites. <i>Molecular Microbiology</i> , 2019, 112, 1131-1144.	1.2	7
31	ABCG1 contributes to suberin formation in <i>Arabidopsis thaliana</i> roots. <i>Scientific Reports</i> , 2019, 9, 11381.	1.6	35
32	Systematic characterization of position one variants within the lantibiotic nisin. <i>Scientific Reports</i> , 2019, 9, 935.	1.6	28
33	Cloning and expression of selected ABC transporters from the <i>Arabidopsis thaliana</i> ABCG family in <i>Pichia pastoris</i> . <i>PLoS ONE</i> , 2019, 14, e0211156.	1.1	11
34	In vitro NTPase activity of highly purified Pdr5, a major yeast ABC multidrug transporter. <i>Scientific Reports</i> , 2019, 9, 7761.	1.6	21
35	Functional Reconstitution of HlyB, a Type I Secretion ABC Transporter, in Saposin-A Nanoparticles. <i>Scientific Reports</i> , 2019, 9, 8436.	1.6	12
36	Novel 3,4-Dihydroisocoumarins Inhibit Human P-gp and BCRP in Multidrug Resistant Tumors and Demonstrate Substrate Inhibition of Yeast Pdr5. <i>Frontiers in Pharmacology</i> , 2019, 10, 400.	1.6	16

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37	Type I Secretion Systems—One Mechanism for All?. <i>Microbiology Spectrum</i> , 2019, 7, .	1.2	44
38	A bifunctional dermaseptin—thanatin dipeptide functionalizes the crop surface for sustainable pest management. <i>Green Chemistry</i> , 2019, 21, 2316-2325.	4.6	31
39	ABC4/MDR3 in health and disease — at the crossroads of biochemistry and medicine. <i>Biological Chemistry</i> , 2019, 400, 1245-1259.	1.2	15
40	Type I Secretion Systems-One Mechanism for All?. , 2019, , 215-225.		3
41	Nutrient exchange in arbuscular mycorrhizal symbiosis from a thermodynamic point of view. <i>New Phytologist</i> , 2019, 222, 1043-1053.	3.5	19
42	FK506 Resistance of <i>Saccharomyces cerevisiae</i> Pdr5 and <i>Candida albicans</i> Cdr1 Involves Mutations in the Transmembrane Domains and Extracellular Loops. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	20
43	Biochemical and structural characterization of murine GBP7, a guanylate binding protein with an elongated C-terminal tail. <i>Biochemical Journal</i> , 2019, 476, 3161-3182.	1.7	8
44	Type I secretion system—it takes three and a substrate. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	34
45	An A/U-Rich Enhancer Region Is Required for High-Level Protein Secretion through the HlyA Type I Secretion System. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	16
46	Arsenobetaine: an ecophysiological important organoarsenical confers cytoprotection against osmotic stress and growth temperature extremes. <i>Environmental Microbiology</i> , 2018, 20, 305-323.	1.8	55
47	Insights into mechanism and functional consequences of heme binding to hemolysin-activating lysine acyltransferase HlyC from <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1964-1972.	1.1	18
48	Vitamin B12 import is all about timing. <i>Nature Chemical Biology</i> , 2018, 14, 640-641.	3.9	0
49	Stoichiometry and structure of a lantibiotic maturation complex. <i>Scientific Reports</i> , 2017, 7, 42163.	1.6	17
50	Synthesis and cytotoxic activities of goniotalamins and derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 6115-6125.	1.4	16
51	From substrate specificity to promiscuity: hybrid ABC transporters for osmoprotectants. <i>Molecular Microbiology</i> , 2017, 104, 761-780.	1.2	42
52	Highlight: the transporter colloquium — spotlight on membrane proteins. <i>Biological Chemistry</i> , 2017, 398, 143-143.	1.2	0
53	Sequencing of FIC1, BSEP and MDR3 in a large cohort of patients with cholestasis revealed a high number of different genetic variants. <i>Journal of Hepatology</i> , 2017, 67, 1253-1264.	1.8	97
54	Substrate Specificity of the Secreted Nisin Leader Peptidase NisP. <i>Biochemistry</i> , 2017, 56, 4005-4014.	1.2	35

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55	Transmitting the energy: interdomain cross-talk in Pdr5. <i>Biological Chemistry</i> , 2017, 398, 145-154.	1.2	3
56	Partial external biliary diversion in bile salt export pump deficiency: Association between outcome and mutation. <i>World Journal of Gastroenterology</i> , 2017, 23, 5295.	1.4	9
57	Structure of the Response Regulator NsrR from <i>Streptococcus agalactiae</i> , Which Is Involved in Lantibiotic Resistance. <i>PLoS ONE</i> , 2016, 11, e0149903.	1.1	22
58	Bile salt export pump-specific antibodies form a polyclonal, multi-epitope inhibitory response in antibody-induced bile salt export pump deficiency. <i>Hepatology</i> , 2016, 63, 524-537.	3.6	45
59	In vivo quantification of the secretion rates of the hemolysin A Type I secretion system. <i>Scientific Reports</i> , 2016, 6, 33275.	1.6	22
60	IQGAP1 Interaction with RHO Family Proteins Revisited. <i>Journal of Biological Chemistry</i> , 2016, 291, 26364-26376.	1.6	26
61	Type I Protein Secretion – “Deceptively Simple yet with a Wide Range of Mechanistic Variability across the Family. <i>EcoSal Plus</i> , 2016, 7, .	2.1	48
62	The <i>Chlamydia pneumoniae</i> Adhesin Pmp21 Forms Oligomers with Adhesive Properties. <i>Journal of Biological Chemistry</i> , 2016, 291, 22806-22818.	1.6	12
63	Dual action antifungal small molecule modulates multidrug efflux and TOR signaling. <i>Nature Chemical Biology</i> , 2016, 12, 867-875.	3.9	79
64	Interdomain regulation of the ATPase activity of the ABC transporter haemolysin B from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 2016, 473, 2471-2483.	1.7	15
65	Analysis of the Bile Salt Export Pump (ABCB11) Interactome Employing Complementary Approaches. <i>PLoS ONE</i> , 2016, 11, e0159778.	1.1	13
66	Functional expression, purification, and biochemical properties of subtilase SprP from <i>Pseudomonas aeruginosa</i> . <i>MicrobiologyOpen</i> , 2015, 4, 743-752.	1.2	11
67	Directionality of substrate translocation of the hemolysin A Type I secretion system. <i>Scientific Reports</i> , 2015, 5, 12470.	1.6	35
68	Biophysical Characterization of Nucleophosmin Interactions with Human Immunodeficiency Virus Rev and Herpes Simplex Virus US11. <i>PLoS ONE</i> , 2015, 10, e0143634.	1.1	27
69	A Mutation within the Extended X Loop Abolished Substrate-induced ATPase Activity of the Human Liver ATP-binding Cassette (ABC) Transporter MDR3. <i>Journal of Biological Chemistry</i> , 2015, 290, 4896-4907.	1.6	27
70	Analyzing the Physico-Chemical Parameters of Detergents and Detergent Mixtures. <i>Advances in Chemical Engineering and Science</i> , 2015, 05, 328-337.	0.2	2
71	A simple in vitro acylation assay based on optimized HlyA and HlyC purification. <i>Analytical Biochemistry</i> , 2014, 464, 17-23.	1.1	11
72	Highlight: Membrane transport on the move. <i>Biological Chemistry</i> , 2014, 395, 1363-1364.	1.2	0

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73	The Centrosomal Adaptor TACC3 and the Microtubule Polymerase chTOG Interact via Defined C-terminal Subdomains in an Aurora-A Kinase-independent Manner. <i>Journal of Biological Chemistry</i> , 2014, 289, 74-88.	1.6	39
74	Generating Symmetry in the Asymmetric ATP-binding Cassette (ABC) Transporter Pdr5 from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 15272-15279.	1.6	35
75	The Type I secretion pathway – The hemolysin system and beyond. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1629-1641.	1.9	172
76	New examples of membrane protein expression and purification using the yeast based Pdr1-3 expression strategy. <i>Journal of Biotechnology</i> , 2014, 191, 158-164.	1.9	4
77	In vitro investigations of ABC transporters of the human liver – advantages and surprises. <i>European Journal of Medical Research</i> , 2014, 19, .	0.9	0
78	Identification of new interaction partners of the human ABC transporter MDR3. <i>European Journal of Medical Research</i> , 2014, 19, .	0.9	0
79	Posttranslational regulation of the bile salt export pump. <i>European Journal of Medical Research</i> , 2014, 19, .	0.9	0
80	Crystal structure of the transport unit of the autotransporter adhesin involved in diffuse adherence from <i>Escherichia coli</i> . <i>Journal of Structural Biology</i> , 2014, 187, 20-29.	1.3	30
81	Equilibrium folding of pro-HlyA from <i>Escherichia coli</i> reveals a stable calcium ion dependent folding intermediate. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1500-1510.	1.1	23
82	Resolving Hot Spots in the C-Terminal Dimerization Domain that Determine the Stability of the Molecular Chaperone Hsp90. <i>PLoS ONE</i> , 2014, 9, e96031.	1.1	27
83	Binding Region of Alanopine Dehydrogenase Predicted by Unbiased Molecular Dynamics Simulations of Ligand Diffusion. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 2493-2498.	2.5	29
84	Type I secretion systems – a story of appendices. <i>Research in Microbiology</i> , 2013, 164, 596-604.	1.0	96
85	Role of centrosomal adaptor proteins of the TACC family in the regulation of microtubule dynamics during mitotic cell division. <i>Biological Chemistry</i> , 2013, 394, 1411-1423.	1.2	45
86	Structural comparison of the transport units of type V secretion systems. <i>Biological Chemistry</i> , 2013, 394, 1385-1398.	1.2	13
87	NisC Binds the FxLx Motif of the Nisin Leader Peptide. <i>Biochemistry</i> , 2013, 52, 5387-5395.	1.2	68
88	Functional Impact of a Single Mutation within the Transmembrane Domain of the Multidrug ABC Transporter Pdr5. <i>Biochemistry</i> , 2013, 52, 2184-2195.	1.2	15
89	Analysis of the inhibition potential of zosuquidar derivatives on selected bacterial and fungal ABC transporters. <i>Molecular Membrane Biology</i> , 2013, 30, 217-227.	2.0	7
90	Highlight: NRW Research School BioStruct – Biological Structures in Molecular Medicine and Biotechnology. <i>Biological Chemistry</i> , 2013, 394, 1353-1355.	1.2	0

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91	Molecular insights into type I secretion systems. <i>Biological Chemistry</i> , 2013, 394, 1371-1384.	1.2	20
92	A novel mutation within a transmembrane helix of the bile salt export pump (<sc>BSEP</sc>, <i><sc>ABCB</sc>11</i>) with delayed development of cirrhosis. <i>Liver International</i> , 2013, 33, 1527-1535.	1.9	24
93	Double-strand DNA end-binding and sliding of the toroidal CRISPR-associated protein Csn2. <i>Nucleic Acids Research</i> , 2013, 41, 6347-6359.	6.5	41
94	Purification, crystallization and preliminary X-ray crystallographic analysis of the transport unit of the monomeric autotransporter AIDA-I from <i>Escherichia coli</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1159-1162.	0.7	2
95	An Aeropylsinin-1 Specific Nitrile Hydratase Isolated from the Marine Sponge <i>Aplysina cavernicola</i> . <i>Marine Drugs</i> , 2013, 11, 3046-3067.	2.2	23
96	Proteins and Their Ligands: Their Importance and How to Crystallize Them. , 2013, , .		1
97	Detergent Screening and Purification of the Human Liver ABC Transporters BSEP (ABCB11) and MDR3 (ABCB4) Expressed in the Yeast <i>Pichia pastoris</i> . <i>PLoS ONE</i> , 2013, 8, e60620.	1.1	30
98	Secretion of slow-folding proteins by a Type 1 secretion system. <i>Bioengineered</i> , 2012, 3, 289-292.	1.4	8
99	The GTPase Activity of Murine Guanylate-binding Protein 2 (mGBP2) Controls the Intracellular Localization and Recruitment to the Parasitophorous Vacuole of <i>Toxoplasma gondii</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 27452-27466.	1.6	46
100	Control of <sc>d</sc>-octopine formation in scallop adductor muscle as revealed through thermodynamic studies of octopine dehydrogenase. <i>Journal of Experimental Biology</i> , 2012, 215, 1515-1522.	0.8	8
101	Highlight: Membrane transport and beyond. <i>Biological Chemistry</i> , 2012, 393, 1201-1202.	1.2	0
102	Lantibiotics: How do producers become self-protected?. <i>Journal of Biotechnology</i> , 2012, 159, 145-154.	1.9	75
103	Using an <i>E. coli</i> Type 1 secretion system to secrete the mammalian, intracellular protein IFABP in its active form. <i>Journal of Biotechnology</i> , 2012, 159, 155-161.	1.9	23
104	The crystal structure of the CRISPR-associated protein Csn2 from <i>Streptococcus agalactiae</i> . <i>Journal of Structural Biology</i> , 2012, 178, 350-362.	1.3	24
105	The histidin-loop is essential for transport activity of human MDR3. A novel mutation of MDR3 in a patient with progressive familial intrahepatic cholestasis type 3. <i>Gene</i> , 2012, 506, 141-145.	1.0	17
106	An RTX Transporter Tethers Its Unfolded Substrate during Secretion via a Unique N-Terminal Domain. <i>Structure</i> , 2012, 20, 1778-1787.	1.6	54
107	Synthesis of 5-oxyquinoline derivatives for reversal of multidrug resistance. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 1700-1704.	1.3	4
108	Rational and Irrational Approaches to Convince a Protein to Crystallize. , 2012, , .		2

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109	The multidrug transporter Pdr5: a molecular diode?. <i>Biological Chemistry</i> , 2011, 392, 53-60.	1.2	24
110	Influence of detergents on the activity of the ABC transporter LmrA. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2313-2321.	1.4	22
111	The Crystal Structure of the Substrate-Binding Protein OpuBC from <i>Bacillus subtilis</i> in Complex with Choline. <i>Journal of Molecular Biology</i> , 2011, 411, 53-67.	2.0	47
112	Arg149 Is Involved in Switching the Low Affinity, Open State of the Binding Protein AfProX into Its High Affinity, Closed State. <i>Journal of Molecular Biology</i> , 2011, 411, 36-52.	2.0	25
113	Heterologous Overexpression and Mutagenesis of the Human Bile Salt Export Pump (ABCB11) Using DREAM (Directed REcombination-Assisted Mutagenesis). <i>PLoS ONE</i> , 2011, 6, e20562.	1.1	11
114	General Introduction, Structure and Likely Mechanism of Action of ABC Transport Proteins. , 2011, , 1-27.		1
115	<sup>1</sup> H, <sup>15</sup> N and <sup>13</sup> C resonance assignment of the N-terminal C39 peptidase-like domain of the ABC transporter Haemolysin B (HlyB). <i>Biomolecular NMR Assignments</i> , 2011, 5, 199-201.	0.4	3
116	High-throughput evaluation of the critical micelle concentration of detergents. <i>Analytical Biochemistry</i> , 2011, 408, 64-70.	1.1	39
117	Substrate Recognition and Specificity of the NisB Protein, the Lantibiotic Dehydratase Involved in Nisin Biosynthesis. <i>Journal of Biological Chemistry</i> , 2011, 286, 30552-30560.	1.6	57
118	Easy and Rapid Purification of Highly Active Nisin. <i>International Journal of Peptides</i> , 2011, 2011, 1-9.	0.7	37
119	A structural classification of substrate-binding proteins. <i>FEBS Letters</i> , 2010, 584, 2606-2617.	1.3	461
120	Addendum to "A structural classification of substrate-binding proteins" [FEBS Lett. 584 (2010) 2606-2617]. <i>FEBS Letters</i> , 2010, 584, 4373-4373.	1.3	3
121	Multidrug efflux pumps: Substrate selection in ATP-binding cassette multidrug efflux pumps "first come, first served?". <i>FEBS Journal</i> , 2010, 277, 540-549.	2.2	106
122	Insights into the Mechanism of Ligand Binding to Octopine Dehydrogenase from <i>Pecten maximus</i> by NMR and Crystallography. <i>PLoS ONE</i> , 2010, 5, e12312.	1.1	12
123	Mutations affecting the extreme C terminus of <i>Escherichia coli</i> haemolysin A reduce haemolytic activity by altering the folding of the toxin. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2495-2505.	0.7	11
124	The Rate of Folding Dictates Substrate Secretion by the <i>Escherichia coli</i> Hemolysin Type 1 Secretion System. <i>Journal of Biological Chemistry</i> , 2010, 285, 40573-40580.	1.6	62
125	Structural analysis of the choline-binding protein ChoX in a semi-closed and ligand-free conformation. <i>Biological Chemistry</i> , 2009, 390, 1163-1170.	1.2	20
126	De novo bile salt transporter antibodies as a possible cause of recurrent graft failure after liver transplantation: A novel mechanism of cholestasis. <i>Hepatology</i> , 2009, 50, 510-517.	3.6	120



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127	The Crystal Structure of UehA in Complex with Ectoineâ€”A Comparison with Other TRAP-T Binding Proteins. <i>Journal of Molecular Biology</i> , 2009, 389, 58-73.	2.0	44
128	A Structural Basis for Substrate Selectivity and Stereoselectivity in Octopine Dehydrogenase from <i>Pecten maximus</i> . <i>Journal of Molecular Biology</i> , 2008, 381, 200-211.	2.0	30
129	Crystal Structures of the Choline/Acetylcholine Substrate-binding Protein ChoX from <i>Sinorhizobium meliloti</i> in the Liganded and Unliganded-Closed States. <i>Journal of Biological Chemistry</i> , 2008, 283, 32848-32859.	1.6	94
130	A mutation of the H-loop selectively affects rhodamine transport by the yeast multidrug ABC transporter Pdr5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5069-5074.	3.3	128
131	The Compatible-Solute-Binding Protein OpuAC from <i>Bacillus subtilis</i> : Ligand Binding, Site-Directed Mutagenesis, and Crystallographic Studies. <i>Journal of Bacteriology</i> , 2008, 190, 5663-5671.	1.0	50
132	Crystal Structure of the Ligand-Binding Protein EhuB from <i>Sinorhizobium meliloti</i> Reveals Substrate Recognition of the Compatible Solutes Ectoine and Hydroxyectoine. <i>Journal of Molecular Biology</i> , 2007, 374, 1237-1250.	2.0	34
133	Molecular Determinants for Substrate Specificity of the Ligand-binding Protein OpuAC from <i>Bacillus subtilis</i> for the Compatible Solutes Glycine Betaine and Proline Betaine. <i>Journal of Molecular Biology</i> , 2006, 357, 592-606.	2.0	77
134	A structural analysis of asymmetry required for catalytic activity of an ABC-ATPase domain dimer. <i>EMBO Journal</i> , 2006, 25, 3432-3443.	3.5	140
135	The motor domains of ABC-transporters. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2006, 372, 385-399.	1.4	127
136	Engineering ATPase Activity in the Isolated ABC Cassette of Human TAP1. <i>Journal of Biological Chemistry</i> , 2006, 281, 27471-27480.	1.6	28
137	Positive co-operative activity and dimerization of the isolated ABC ATPase domain of HlyB from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 2005, 386, 489-495.	1.7	31
138	H662 is the linchpin of ATP hydrolysis in the nucleotide-binding domain of the ABC transporter HlyB. <i>EMBO Journal</i> , 2005, 24, 1901-1910.	3.5	309
139	Biochemical and Structural Analysis of the <i>Bacillus subtilis</i> ABC Transporter OpuA and Its Isolated Subunits. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2005, 10, 76-91.	1.0	18
140	Functional Characterization and ATP-Induced Dimerization of the Isolated ABC-Domain of the Haemolysin B Transporter. <i>Biochemistry</i> , 2005, 44, 9680-9690.	1.2	88
141	Functional overexpression and in vitro re-association of OpuA, an osmotically regulated ABC-transport complex from <i>Bacillus subtilis</i> . <i>FEBS Letters</i> , 2005, 579, 5765-5768.	1.3	16
142	Type 1 protein secretion in bacteria, the ABC-transporter dependent pathway (Review). <i>Molecular Membrane Biology</i> , 2005, 22, 29-39.	2.0	222
143	Yeast ATPâ€”Binding Cassette Transporters: Cellular Cleaning Pumps. <i>Methods in Enzymology</i> , 2005, 400, 460-484.	0.4	70
144	The role of CAPS buffer in expanding the crystallization space of the nucleotide-binding domain of the ABC transporter haemolysin B from <i>Escherichia coli</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1076-1084.	2.5	18

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145	Metal-Chelating Amino Acids As Building Blocks For Synthetic Receptors Sensing Metal Ions And Histidine-Tagged Proteins. <i>ChemBioChem</i> , 2003, 4, 1340-1344.	1.3	30
146	Nucleotide Dependent Monomer/Dimer Equilibrium of OpuAA, the Nucleotide-binding Protein of the Osmotically Regulated ABC Transporter OpuA from <i>Bacillus subtilis</i> . <i>Journal of Molecular Biology</i> , 2003, 334, 403-419.	2.0	46
147	A Specific Interaction Between the NBD of the ABC-transporter HlyB and a C-Terminal Fragment of its Transport Substrate Haemolysin A. <i>Journal of Molecular Biology</i> , 2003, 327, 1169-1179.	2.0	80
148	Crystal Structure of the Nucleotide-binding Domain of the ABC-transporter Haemolysin B: Identification of a Variable Region Within ABC Helical Domains. <i>Journal of Molecular Biology</i> , 2003, 330, 333-342.	2.0	158
149	Structure and mechanism of ABC transporters. <i>Current Opinion in Structural Biology</i> , 2002, 12, 754-760.	2.6	282
150	The First View of an ABC Transporter: The X-ray Crystal Structure of MsbA from <i>E. coli</i> . <i>ChemBioChem</i> , 2002, 3, 161-165.	1.3	12
151	Affinity, Specificity, Diversity: A Challenge for the ABC Transporter TAP in Cellular Immunity. <i>ChemBioChem</i> , 2000, 1, 16-35.	1.3	36
152	A Metal-Chelating Microscopy Tip as a New Toolbox for Single-Molecule Experiments by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2000, 78, 3275-3285.	0.2	166
153	Oriented, Active <i>Escherichia coli</i> RNA Polymerase: An Atomic Force Microscope Study. <i>Biophysical Journal</i> , 1999, 76, 1024-1033.	0.2	69
154	Conformational isomers of a class II MHC-peptide complex in solution. <i>Journal of Molecular Biology</i> , 1999, 286, 207-218.	2.0	49
155	ATP-LipidsProtein Anchor and Energy Source in Two Dimensions. <i>Journal of the American Chemical Society</i> , 1996, 118, 5532-5543.	6.6	22
156	Engineered fusion molecules at chelator lipid interfaces imaged by reflection interference contrast microscopy (RICM). <i>Biosensors and Bioelectronics</i> , 1995, 10, 805-812.	5.3	28
157	Synthesis and Characterization of Chelator-Lipids for Reversible Immobilization of Engineered Proteins at Self-Assembled Lipid Interfaces. <i>Journal of the American Chemical Society</i> , 1994, 116, 8485-8491.	6.6	202