

CÃ©dric Orelle

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

3,185
citations

279798

23
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

3806
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, Function, and Evolution of Bacterial ATP-Binding Cassette Systems. <i>Microbiology and Molecular Biology Reviews</i> , 2008, 72, 317-364.	6.6	1,162
2	Alternating Access in Maltose Transporter Mediated by Rigid-Body Rotations. <i>Molecular Cell</i> , 2009, 33, 528-536.	9.7	218
3	Protein synthesis by ribosomes with tethered subunits. <i>Nature</i> , 2015, 524, 119-124.	27.8	204
4	The Conserved Glutamate Residue Adjacent to the Walker-B Motif Is the Catalytic Base for ATP Hydrolysis in the ATP-binding Cassette Transporter BmrA. <i>Journal of Biological Chemistry</i> , 2003, 278, 47002-47008.	3.4	163
5	Context-specific inhibition of translation by ribosomal antibiotics targeting the peptidyl transferase center. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12150-12155.	7.1	130
6	Characterization of YvcC (BmrA), a Multidrug ABC Transporter Constitutively Expressed in <i>Bacillus subtilis</i> . <i>Biochemistry</i> , 2004, 43, 7491-7502.	2.5	123
7	Both maltose-binding protein and ATP are required for nucleotide-binding domain closure in the intact maltose ABC transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12837-12842.	7.1	96
8	A common mechanism for ATP hydrolysis in ABC transporter and helicase superfamilies. <i>Trends in Biochemical Sciences</i> , 2001, 26, 539-544.	7.5	86
9	Tools for Characterizing Bacterial Protein Synthesis Inhibitors. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 5994-6004.	3.2	81
10	Multidrug ABC transporters in bacteria. <i>Research in Microbiology</i> , 2019, 170, 381-391.	2.1	79
11	Functional Reconstitution of an ABC Transporter in Nanodiscs for Use in Electron Paramagnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 9513-9515.	13.7	78
12	Three-dimensional structure by cryo-electron microscopy of YvcC, an homodimeric ATP-binding cassette transporter from <i>Bacillus subtilis</i> . <i>Journal of Molecular Biology</i> , 2002, 315, 1075-1085.	4.2	71
13	Quantification of Detergents Complexed with Membrane Proteins. <i>Scientific Reports</i> , 2017, 7, 41751.	3.3	66
14	An integrated transport mechanism of the maltose ABC importer. <i>Research in Microbiology</i> , 2019, 170, 321-337.	2.1	62
15	Dynamics of $\hat{\mu}$ -helical subdomain rotation in the intact maltose ATP-binding cassette transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20293-20298.	7.1	59
16	Conformational Change Induced by ATP Binding in the Multidrug ATP-Binding Cassette Transporter BmrA. <i>Biochemistry</i> , 2008, 47, 2404-2412.	2.5	57
17	The Q-loop Disengages from the First Intracellular Loop during the Catalytic Cycle of the Multidrug ABC Transporter BmrA. <i>Journal of Biological Chemistry</i> , 2005, 280, 36857-36864.	3.4	46
18	Identifying the targets of aminoacyl-tRNA synthetase inhibitors by primer extension inhibition. <i>Nucleic Acids Research</i> , 2013, 41, e144-e144.	14.5	44

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19	Highly efficient over-production in <i>E. coli</i> of YvcC, a multidrug-like ATP-binding cassette transporter from <i>Bacillus subtilis</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1565, 1-5.	2.6	43
20	Functionality of membrane proteins overexpressed and purified from <i>E. coli</i> is highly dependent upon the strain. <i>Scientific Reports</i> , 2019, 9, 2654.	3.3	36
21	Structures of ABC transporters: handle with care. <i>FEBS Letters</i> , 2020, 594, 3799-3814.	2.8	35
22	Flexible-to-rigid transition is central for substrate transport in the ABC transporter BmrA from <i>Bacillus subtilis</i> . <i>Communications Biology</i> , 2019, 2, 149.	4.4	32
23	Full engagement of liganded maltoseâ€binding protein stabilizes a semiâ€open <scp>ATP</scp>â€binding cassette dimer in the maltose transporter. <i>Molecular Microbiology</i> , 2015, 98, 878-894.	2.5	29
24	Substrate-bound and substrate-free outward-facing structures of a multidrug ABC exporter. <i>Science Advances</i> , 2022, 8, eabg9215.	10.3	27
25	A multidrug ABC transporter with a taste for GTP. <i>Scientific Reports</i> , 2018, 8, 2309.	3.3	26
26	Expanding the Kinome World: A New Protein Kinase Family Widely Conserved in Bacteria. <i>Journal of Molecular Biology</i> , 2017, 429, 3056-3074.	4.2	24
27	Assemblies of lauryl maltose neopentyl glycol (LMNG) and LMNG-solubilized membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 939-957.	2.6	23
28	Structural Insights into the Catalytic Cycle of a Bacterial Multidrug ABC Efflux Pump. <i>Journal of Molecular Biology</i> , 2022, 434, 167541.	4.2	13
29	Solid-State NMR Reveals Asymmetric ATP Hydrolysis in the Multidrug ABC Transporter BmrA. <i>Journal of the American Chemical Society</i> , 2022, 144, 12431-12442.	13.7	13
30	Cdr1p highlights the role of the non-hydrolytic ATP-binding site in driving drug translocation in asymmetric ABC pumps. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183131.	2.6	12
31	Repurposing bioactive aporphine alkaloids as efflux pump inhibitors. <i>FÃ-toterapÃ-Ãç</i> , 2019, 139, 104371.	2.2	11
32	Gradient reconstitution of membrane proteins for solid-state NMR studies. <i>Journal of Biomolecular NMR</i> , 2017, 69, 81-91.	2.8	11
33	Identification of a two-component regulatory system involved in antimicrobial peptide resistance in <i>Streptococcus pneumoniae</i> . <i>PLoS Pathogens</i> , 2022, 18, e1010458.	4.7	9
34	The Maltose ABC Transporter: Where Structure Meets Function. <i>Springer Series in Biophysics</i> , 2014, , 181-205.	0.4	4
35	Structures and Transport Mechanisms of the ABC Efflux Pumps. , 2016, , 73-98.		3
36	ABC systems: structural and functional variations on a common theme. <i>Research in Microbiology</i> , 2019, 170, 301-303.	2.1	2

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37	Functional Overexpression of Membrane Proteins in E. coli: The Good, the Bad, and the Ugly. <i>Methods in Molecular Biology</i> , 2022, , 41-58.	0.9	2
38	Identification of novel inhibitors of the ABC transporter BmrA. <i>Bioorganic Chemistry</i> , 2020, 105, 104452.	4.1	1
39	Catching a fungal multidrug ABC transporter on the flipping act. <i>BioEssays</i> , 2022, , 2200094.	2.5	0