Jean Marie PagÃ¨s

List of Publications by Year
in descending order

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211 papers	11,955 citations	23567 58 h-index	34986 98 g-index
219 all docs	219 docs citations	219 times ranked	9762 citing authors

#	Article	IF	Citations
1	The porin and the permeating antibiotic: a selective diffusion barrier in Gram-negative bacteria. Nature Reviews Microbiology, 2008, 6, 893-903.	28.6	742
2	Broad-specificity efflux pumps and their role in multidrug resistance of Gram-negative bacteria. FEMS Microbiology Reviews, 2012, 36, 340-363.	8.6	574
3	Enterobacter aerogenes and Enterobacter cloacae; versatile bacterial pathogens confronting antibiotic treatment. Frontiers in Microbiology, 2015, 6, 392.	3.5	368
4	Enterobacter spp.: Update on Taxonomy, Clinical Aspects, and Emerging Antimicrobial Resistance. Clinical Microbiology Reviews, 2019, 32, .	13.6	276
5	Mechanisms of drug efflux and strategies to combat them: Challenging the efflux pump of Gram-negative bacteria. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 826-833.	2.3	246
6	Mechanisms of envelope permeability and antibiotic influx and efflux in Gram-negative bacteria. Nature Microbiology, 2017, 2, 17001.	13.3	238
7	Porins and small-molecule translocation across the outer membrane of Gram-negative bacteria. Nature Reviews Microbiology, 2020, 18, 164-176.	28.6	225
8	Antibiotic efflux pumps in Gram-negative bacteria: the inhibitor response strategy. Journal of Antimicrobial Chemotherapy, 2007, 59, 1223-1229.	3.0	219
9	Geraniol Restores Antibiotic Activities against Multidrug-Resistant Isolates from Gram-Negative Species. Antimicrobial Agents and Chemotherapy, 2009, 53, 2209-2211.	3.2	207
10	Multiple facets of bacterial porins. FEMS Microbiology Letters, 2001, 199, 1-7.	1.8	202
11	Inhibitors of efflux pumps in Gram-negative bacteria. Trends in Molecular Medicine, 2005, 11, 382-389.	6.7	202
12	Strategies for bypassing the membrane barrier in multidrug resistant Gramâ€negative bacteria. FEBS Letters, 2011, 585, 1682-1690.	2.8	192
13	Antibiotic Stress, Genetic Response and Altered Permeability of E. coli. PLoS ONE, 2007, 2, e365.	2.5	184
14	Porin alteration and active efflux: two in vivo drug resistance strategies used by Enterobacter aerogenes. Microbiology (United Kingdom), 1998, 144, 3003-3009.	1.8	174
15	Antibacterial activity of Thymus maroccanus and Thymus broussonetii essential oils against nosocomial infection â€“ bacteria and their synergistic potential with antibiotics. Phytomedicine, 2012, 19, 464-471.	5.3	174
16	The AcrAB-TolC Efflux Pump Contributes to Multidrug Resistance in the Nosocomial Pathogen Enterobacter aerogenes. Antimicrobial Agents and Chemotherapy, 2002, 46, 2640-2643.	3.2	159
17	Membrane Permeability and Regulation of Drug “Influx and Efflux” in Enterobacterial Pathogens. Current Drug Targets, 2008, 9, 750-759.	2.1	157
18	Quinoline Derivatives as Promising Inhibitors of Antibiotic Efflux Pump in Multidrug Resistant Enterobacter Aerogenes Isolates. Current Drug Targets, 2006, 7, 843-847.	2.1	156

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19	A new mechanism of antibiotic resistance in Enterobacteriaceae induced by a structural modification of the major porin. Molecular Microbiology, 2001, 41, 189-198.	2.5	134
20	Inhibitors of Bacterial Efflux Pumps as Adjuvants in Antibiotic Treatments and Diagnostic Tools for Detection of Resistance by Efflux. Recent Patents on Anti-infective Drug Discovery, 2006, 1, 157-175.	0.8	125
21	Potential role of non-antibiotics (helper compounds) in the treatment of multidrug-resistant Gram-negative infections: mechanisms for their direct and indirect activities. International Journal of Antimicrobial Agents, 2008, 31, 198-208.	2.5	124
22	Antibacterial activities of selected Cameroonian spices and their synergistic effects with antibiotics against multidrug-resistant phenotypes. BMC Complementary and Alternative Medicine, 2011, 11, 104.	3.7	124
23	Imipenem Resistance of Enterobacter aerogenes Mediated by Outer Membrane Permeability. Journal of Clinical Microbiology, 2000, 38, 1048-1052.	3.9	119
24	Getting Drugs into Gram-Negative Bacteria: Rational Rules for Permeation through General Porins. ACS Infectious Diseases, 2018, 4, 1487-1498.	3.8	117
25	Detection and Prevalence of Active Drug Efflux Mechanism in Various Multidrug-Resistant Klebsiella pneumoniae Strains from Turkey. Journal of Clinical Microbiology, 2004, 42, 2701-2706.	3.9	112
26	Alkylaminoquinolines inhibit the bacterial antibiotic efflux pump in multidrug-resistant clinical isolates. Biochemical Journal, 2003, 376, 801-805.	3.7	104
27	Oxacillinase-Mediated Resistance to Cefepime and Susceptibility to Ceftazidime in Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2001, 45, 1615-1620.	3.2	101
28	The AcrAB-TolC Pump Is Involved in Macrolide Resistance but Not in Telithromycin Efflux in Enterobacter aerogenes and Escherichia coli. Antimicrobial Agents and Chemotherapy, 2004, 48, 3621-3624.	3.2	99
29	Intracellular accumulation of linezolid in Escherichia coli, Citrobacter freundii and Enterobacter aerogenes: role of enhanced efflux pump activity and inactivation. Journal of Antimicrobial Chemotherapy, 2007, 59, 1261-1264.	3.0	98
30	A Simple Method for Assessment of MDR Bacteria for Over-Expressed Efflux Pumps. Open Microbiology Journal, 2013, 7, 72-82.	0.7	97
31	Role of the Outer Membrane and Porins in Susceptibility of Î²-Lactamase-Producing Enterobacteriaceae to Ceftazidime-Avibactam. Antimicrobial Agents and Chemotherapy, 2016, 60, 1349-1359.	3.2	97
32	Multiple Regulatory Pathways Associated with High-Level Ciprofloxacin and Multidrug Resistance in Salmonella enterica Serovar Enteritidis: Involvement of ramA and Other Global Regulators. Antimicrobial Agents and Chemotherapy, 2009, 53, 1080-1087.	3.2	95
33	Efflux Pumps Are Involved in the Defense of Gram-Negative Bacteria against the Natural Products Isobavachalcone and Diospyrone. Antimicrobial Agents and Chemotherapy, 2010, 54, 1749-1752.	3.2	95
34	Most Enterobacter aerogenes Strains in France Belong to a Prevalent Clone. Journal of Clinical Microbiology, 1999, 37, 2165-2169.	3.9	95
35	Efflux Pump, the Masked Side of ÃŸ-Lactam Resistance in Klebsiella pneumoniae Clinical Isolates. PLoS ONE, 2009, 4, e4817.	2.5	95
36	Structure, Function and Regulation of Outer Membrane Proteins Involved in Drug Transport in Enterobactericeae: the OmpF/C â€“ TolC Case. Open Microbiology Journal, 2013, 7, 22-33.	0.7	94

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37	RamA Is an Alternate Activator of the Multidrug Resistance Cascade in Enterobacter aerogenes. Antimicrobial Agents and Chemotherapy, 2004, 48, 2518-2523.	3.2	90
38	Inhibitors of Antibiotic Efflux in Resistant Enterobacter aerogenes and Klebsiella pneumoniae Strains. Antimicrobial Agents and Chemotherapy, 2004, 48, 1043-1046.	3.2	89
39	Identification of an OprD Homologue in Acinetobacter baumannii. Journal of Proteome Research, 2005, 4, 2386-2390.	3.7	86
40	How Î²-Lactam Antibiotics Enter Bacteria: A Dialogue with the Porins. PLoS ONE, 2009, 4, e5453.	2.5	83
41	Essential oils from Moroccan plants as potential chemosensitisers restoring antibiotic activity in resistant Gram-negative bacteria. International Journal of Antimicrobial Agents, 2011, 38, 325-330.	2.5	79
42	Alteration of pore properties of Escherichia coli OmpF induced by mutation of key residues in anti-loop 3 region. Biochemical Journal, 2002, 363, 521-528.	3.7	77
43	Imipenem and expression of multidrug efflux pump in Enterobacter aerogenes. Biochemical and Biophysical Research Communications, 2003, 301, 985-990.	2.1	75
44	New Pyridoquinoline Derivatives as Potential Inhibitors of the Fluoroquinolone Efflux Pump in ResistantEnterobacteraerogenesStrains. Journal of Medicinal Chemistry, 2001, 44, 4023-4026.	6.4	73
45	Resistance to imipenem, cefepime, and cefpirome associated with mutation in Omp36 osmoporin of Enterobacter aerogenes. Biochemical and Biophysical Research Communications, 2004, 317, 851-856.	2.1	71
46	New insight into the structural, electrochemical and biological aspects of macroacyclic Cu(II) complexes derived from S-substituted dithiocarbazate schiff bases. European Journal of Medicinal Chemistry, 2016, 120, 1-12.	5.5	71
47	Procaine, a Local Anesthetic Interacting with the Cell Membrane, Inhibits the Processing of Precursor Forms of Periplasmic Proteins in Escherichia coli. FEBS Journal, 1979, 96, 49-57.	0.2	70
48	Successive Emergence of Enterobacter aerogenes Strains Resistant to Imipenem and Colistin in a Patient. Antimicrobial Agents and Chemotherapy, 2005, 49, 1354-1358.	3.2	70
49	Molecular basis of macrolide resistance in Campylobacter: role of efflux pumps and target mutations. Journal of Antimicrobial Chemotherapy, 2005, 56, 491-497.	3.0	68
50	Chloramphenicol and expression of multidrug efflux pump in Enterobacter aerogenes. Biochemical and Biophysical Research Communications, 2005, 328, 1113-1118.	2.1	67
51	An adaptive response of Enterobacter aerogenes to imipenem: regulation of porin balance in clinical isolates. International Journal of Antimicrobial Agents, 2013, 41, 130-136.	2.5	66
52	Inhibitors of antibiotic efflux pump in resistant Enterobacter aerogenes strains. Biochemical and Biophysical Research Communications, 2002, 293, 1370-1373.	2.1	65
53	Fitness Costs and Stability of a High-Level Ciprofloxacin Resistance Phenotype in Salmonella enterica Serotype Enteritidis: Reduced Infectivity Associated with Decreased Expression of Salmonella Pathogenicity Island 1 Genes. Antimicrobial Agents and Chemotherapy, 2010, 54, 367-374.	3.2	64
54	An Early Response to Environmental Stress Involves Regulation of OmpX and OmpF, Two Enterobacterial Outer Membrane Pore-Forming Proteins. Antimicrobial Agents and Chemotherapy, 2007, 51, 3190-3198.	3.2	63

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55	Antibiotic Transport in Resistant Bacteria: Synchrotron UV Fluorescence Microscopy to Determine Antibiotic Accumulation with Single Cell Resolution. PLoS ONE, 2012, 7, e38624.	2.5	63
56	Membrane Permeability Modifications Are Involved in Antibiotic Resistance in Klebsiella pneumoniae. Biochemical and Biophysical Research Communications, 2000, 274, 496-499.	2.1	61
57	A phenylalanineâ€“arginine Î²-naphthylamide sensitive multidrug efflux pump involved in intrinsic and acquired resistance of Campylobacter to macrolides. International Journal of Antimicrobial Agents, 2003, 22, 237-241.	2.5	60
58	Antibacterial and antibiotic-potentiation activities of the methanol extract of some cameroonian spices against Gram-negative multi-drug resistant phenotypes. BMC Research Notes, 2012, 5, 299.	1.4	60
59	Mechanistic Aspects of the Transfer of Nascent Periplasmic Proteins across the Cytoplasmic Membrane in Escherichia coli. FEBS Journal, 1978, 86, 589-602.	0.2	59
60	Modification of Outer Membrane Protein Profile and Evidence Suggesting an Active Drug Pump in Enterobacter aerogenes Clinical Strains. Antimicrobial Agents and Chemotherapy, 2003, 47, 1555-1559.	3.2	59
61	EnterobacterÂ aerogenesOmpX, a cation-selective channelmar- and osmo-regulated. FEBS Letters, 2004, 569, 27-30.	2.8	59
62	Stress responses, outer membrane permeability control and antimicrobial resistance in Enterobacteriaceae. Microbiology (United Kingdom), 2018, 164, 260-267.	1.8	59
63	Conjugation of a New Series of Dithiocarbazate Schiff Base Copper(II) Complexes with Vectors Selected to Enhance Antibacterial Activity. Bioconjugate Chemistry, 2014, 25, 2269-2284.	3.6	58
64	Squalamine: An Appropriate Strategy against the Emergence of Multidrug Resistant Gram-Negative Bacteria?. PLoS ONE, 2008, 3, e2765.	2.5	56
65	Normal precursors of periplasmic proteins accumulated in the cytoplasm are not exported post-translationally in Escherichia coli. FEBS Journal, 1984, 143, 499-505.	0.2	54
66	Comparative aspects of the diffusion of norfloxacin, cefepime and spermine through the F porin channel of Enterobacter cloacae. Biochemical Journal, 2000, 348, 223-227.	3.7	54
67	Membrane Efflux and Influx Modulate both Multidrug Resistance and Virulence of Klebsiella pneumoniae in a Caenorhabditis elegans Model. Antimicrobial Agents and Chemotherapy, 2010, 54, 4373-4378.	3.2	54
68	Quinazoline derivatives are efficient chemosensitizers of antibiotic activity in Enterobacter aerogenes, Klebsiella pneumoniae and Pseudomonas aeruginosa resistant strains. International Journal of Antimicrobial Agents, 2010, 36, 164-168.	2.5	54
69	MOMP (major outer membrane protein) ofCampylobacter jejuni; a versatile pore-forming protein. FEBS Letters, 2000, 469, 93-97.	2.8	53
70	Alteration of pore properties of Escherichia coli OmpF induced by mutation of key residues in anti-loop 3 region. Biochemical Journal, 2002, 363, 521.	3.7	53
71	pH Modulation of Efflux Pump Activity of Multi-Drug Resistant Escherichia coli: Protection During Its Passage and Eventual Colonization of the Colon. PLoS ONE, 2009, 4, e6656.	2.5	53
72	mar Operon Involved in Multidrug Resistance of Enterobacter aerogenes. Antimicrobial Agents and Chemotherapy, 2002, 46, 1093-1097.	3.2	51

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73	Antibacterial Activities of Selected Cameroonian Plants and Their Synergistic Effects with Antibiotics against Bacteria Expressing MDR Phenotypes. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-11.	1.2	51
74	Microspectrometric insights on the uptake of antibiotics at the single bacterial cell level. Scientific Reports, 2015, 5, 17968.	3.3	50
75	Identification and Evolution of Drug Efflux Pump in Clinical Enterobacter aerogenes Strains Isolated in 1995 and 2003. PLoS ONE, 2008, 3, e3203.	2.5	50
76	Implication of Porins in Î²-Lactam Resistance of Providencia stuartii. Journal of Biological Chemistry, 2010, 285, 32273-32281.	3.4	49
77	Î²-Lactam Screening by Specific Residues of the OmpF Eyelet. Journal of Medicinal Chemistry, 2005, 48, 1395-1400.	6.4	48
78	Fluoroquinolone structure and translocation flux across bacterial membrane. Scientific Reports, 2017, 7, 9821.	3.3	48
79	Toward Screening for Antibiotics with Enhanced Permeation Properties through Bacterial Porins. Biochemistry, 2010, 49, 6928-6935.	2.5	47
80	Spectrofluorimetric quantification of antibiotic drug concentration in bacterial cells for the characterization of translocation across bacterial membranes. Nature Protocols, 2018, 13, 1348-1361.	12.0	46
81	Antibodies as probes for detection of conformational changes in proteins. A model study with the alkaline phosphatase of Escherichia coli. Journal of Molecular Biology, 1975, 97, 309-335.	4.2	45
82	Structural and Functional Study of the Phenicol-Specific Efflux Pump FloR Belonging to the Major Facilitator Superfamily. Antimicrobial Agents and Chemotherapy, 2005, 49, 2965-2971.	3.2	45
83	Multidrug efflux pumps and their role in antibiotic and antiseptic resistance: a pharmacodynamic perspective. Expert Opinion on Drug Metabolism and Toxicology, 2017, 13, 301-309.	3.3	43
84	The eefABC Multidrug Efflux Pump Operon Is Repressed by H-NS in Enterobacter aerogenes. Journal of Bacteriology, 2005, 187, 3894-3897.	2.2	42
85	New peptide deformylase inhibitors and cooperative interaction: a combination to improve antibacterial activity. Journal of Antimicrobial Chemotherapy, 2012, 67, 1392-1400.	3.0	42
86	Outer Membrane Porins. Sub-Cellular Biochemistry, 2019, 92, 79-123.	2.4	42
87	In Vivo Evolution of Bacterial Resistance in Two Cases of Enterobacter aerogenes Infections during Treatment with Imipenem. PLoS ONE, 2015, 10, e0138828.	2.5	42
88	The Orientation of Porin OmpF in the Outer Membrane of Escherichia coli. Journal of Molecular Biology, 1993, 233, 400-413.	4.2	41
89	Efflux Mechanism, an Attractive Target to Combat Multidrug Resistant Plasmodium falciparum and Pseudomonas aeruginosa. Current Medicinal Chemistry, 2009, 16, 301-317.	2.4	41
90	Efflux Pumps of Gramâ€Negative Bacteria: Genetic Responses to Stress and the Modulation of their Activity by pH, Inhibitors, and Phenothiazines. Advances in Enzymology and Related Areas of Molecular Biology, 2011, 77, 61-108.	1.3	41

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91	In Vivo Modification of Porin Activity Conferring Antibiotic Resistance to Enterobacter aerogenes. Biochemical and Biophysical Research Communications, 1999, 266, 248-251.	2.1	40
92	Propyl paraben induces potassium efflux in Escherichia coli. Journal of Antimicrobial Chemotherapy, 2005, 55, 1013-1015.	3.0	39
93	Amineâ€“alkyl derivatives of hydantoin: New tool to combat resistant bacteria. European Journal of Medicinal Chemistry, 2011, 46, 5807-5816.	5.5	39
94	Natural extracts stimulate membrane-associated mechanisms of resistance in Gram-negative bacteria. Letters in Applied Microbiology, 2014, 58, 472-477.	2.2	39
95	Interplay Between Membrane Permeability and Enzymatic Barrier Leads to Antibiotic-Dependent Resistance in Klebsiella Pneumoniae. Frontiers in Microbiology, 2018, 9, 1422.	3.5	39
96	Thanatin activity on multidrug resistant clinical isolates of Enterobacter aerogenes and Klebsiella pneumoniae. International Journal of Antimicrobial Agents, 2003, 22, 265-269.	2.5	37
97	Squalamine, an original chemosensitizer to combat antibiotic-resistant Gram-negative bacteria. Journal of Antimicrobial Chemotherapy, 2010, 65, 799-801.	3.0	36
98	MOMP from Campylobacter jejuni Is a Trimer of 18-Stranded Î²-Barrel Monomers with a Ca 2+ Ion Bound at the Constriction Zone. Journal of Molecular Biology, 2016, 428, 4528-4543.	4.2	36
99	New Antibiotic Molecules: Bypassing the Membrane Barrier of Gram Negative Bacteria Increases the Activity of Peptide Deformylase Inhibitors. PLoS ONE, 2009, 4, e6443.	2.5	35
100	Efflux Pumps of Gram-Negative Bacteria, a New Target for New Molecules. Current Topics in Medicinal Chemistry, 2010, 10, 1848-1857.	2.1	35
101	Crucial domains are conserved in Enterobacteriaceae porins. FEMS Microbiology Letters, 1996, 136, 91-97.	1.8	34
102	Hydroxamic Acids as Potent Inhibitors of Fe^{II} and Mn^{II}E.â€¦coli Methionine Aminopeptidase: Biological Activities and Xâ€ray Structures of Oxazole Hydroxamateâ€“EcMetAPâ€Mn Complexes. ChemMedChem, 2012, 7, 1020-1030.	3.2	34
103	Polyamino geranic derivatives as new chemosensitizers to combat antibiotic resistant Gram-negative bacteria. Bioorganic and Medicinal Chemistry, 2013, 21, 1174-1179.	3.0	34
104	The challenge of intracellular antibiotic accumulation, a function of fluoroquinolone influx versus bacterial efflux. Communications Biology, 2020, 3, 198.	4.4	34
105	Omp35, a New Enterobacter aerogenes Porin Involved in Selective Susceptibility to Cephalosporins. Antimicrobial Agents and Chemotherapy, 2004, 48, 2153-2158.	3.2	33
106	An alkylaminoquinazoline restores antibiotic activity in Gram-negative resistant isolates. Microbiology (United Kingdom), 2011, 157, 566-571.	1.8	33
107	4-alkoxy and 4-thioalkoxyquinoline derivatives as chemosensitizers for the chloramphenicol-resistant clinical Enterobacter aerogenes 27 strain. International Journal of Antimicrobial Agents, 2003, 22, 270-273.	2.5	32
108	Chloroquinolines block antibiotic efflux pumps in antibiotic-resistant Enterobacter aerogenes isolates. International Journal of Antimicrobial Agents, 2006, 27, 565-569.	2.5	32

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109	Ethidium bromide efflux by Salmonella: modulation by metabolic energy, pH, ions and phenothiazines. International Journal of Antimicrobial Agents, 2011, 38, 140-145.	2.5	32
110	Purification, characterization and sequence analysis of Omp50,a new porin isolated from Campylobacter jejuni. Biochemical Journal, 2000, 352, 637-643.	3.7	32
111	Evidence for Synthesis of Alkaline Phosphatase on Membrane-Bound Polysomes in Escherichia coli. FEBS Journal, 1978, 86, 603-606.	0.2	31
112	Antibiotic-resistant Campylobacter: could efflux pump inhibitors control infection?. Journal of Antimicrobial Chemotherapy, 2007, 59, 1230-1236.	3.0	31
113	Involvement of the Efflux Pumps in Chloramphenicol Selected Strains of Burkholderia thailandensis: Proteomic and Mechanistic Evidence. PLoS ONE, 2011, 6, e16892.	2.5	31
114	Antibiotic Uptake through Membrane Channels: Role of Providencia stuartii OmpPst1 Porin in Carbapenem Resistance. Biochemistry, 2012, 51, 10244-10249.	2.5	30
115	Polyamino-Isoprenic Derivatives Block Intrinsic Resistance of P. aeruginosa to Doxycycline and Chloramphenicol In Vitro. PLoS ONE, 2016, 11, e0154490.	2.5	30
116	Environmental Regulation of Campylobacter jejuni Major Outer Membrane Protein Porin Expression in Escherichia coli Monitored by Using Green Fluorescent Protein. Applied and Environmental Microbiology, 2002, 68, 4209-4215.	3.1	29
117	Maturation of Exported Proteins in Escherichia coli. FEBS Journal, 1982, 124, 561-566.	0.2	29
118	Search for new tools to combat Gram-negative resistant bacteria among amine derivatives of 5-arylidenehydantoin. Bioorganic and Medicinal Chemistry, 2013, 21, 135-145.	3.0	29
119	First evidence of antibacterial and synergistic effects of Thymus riatarum essential oil with conventional antibiotics. Industrial Crops and Products, 2014, 61, 370-376.	5.2	29
120	An instrument-free method for the demonstration of efflux pump activity of bacteria. In Vivo, 2006, 20, 657-64.	1.3	29
121	Dynamics of the exposure of epitopes on OmpF, an outer membrane protein of Escherichia coli. FEBS Journal, 1992, 206, 109-114.	0.2	28
122	Interplay between Three RND Efflux Pumps in Doxycycline-Selected Strains of Burkholderia thailandensis. PLoS ONE, 2013, 8, e84068.	2.5	28
123	A unique peptide deformylase platform to rationally design and challenge novel active compounds. Scientific Reports, 2016, 6, 35429.	3.3	28
124	MOMP, a Divergent Porin from Campylobacter: Cloning and Primary Structural Characterization. Biochemical and Biophysical Research Communications, 2001, 280, 380-387.	2.1	27
125	An AcrAB-mediated multidrug-resistant phenotype is maintained following restoration of wild-type activities by efflux pump genes and their regulators. International Journal of Antimicrobial Agents, 2009, 34, 602-604.	2.5	27
126	Fluoroquinolone-derived fluorescent probes for studies of bacterial penetration and efflux. MedChemComm, 2019, 10, 901-906.	3.4	26

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127	A quantitative immunochemical technique for evaluation of the extent of integration of membrane proteins and of protein conformational changes and homologies. Analytical Biochemistry, 1976, 76, 83-94.	2.4	25
128	High susceptibility of MDR and XDR Gram-negative pathogens to biphenyl-diacetylene-based difluoromethyl-allo-threonyl-hydroxamate LpxC inhibitors. Journal of Antimicrobial Chemotherapy, 2016, 71, 2874-2882.	3.0	25
129	In-vivo loss of carbapenem resistance by extensively drug-resistant Klebsiella pneumoniae during treatment via porin expression modification. Scientific Reports, 2017, 7, 6722.	3.3	25
130	Immunological analysis of porin polymorphism in Escherichia coli B and K-12. Molecular Immunology, 1989, 26, 1027-1036.	2.2	24
131	Colicins, spermine and cephalosporins: a competitive interaction with the OmpF eyelet. Biochemical Journal, 2003, 376, 245-252.	3.7	24
132	Microspectrofluorimetry to dissect the permeation of ceftazidime in Gram-negative bacteria. Scientific Reports, 2017, 7, 986.	3.3	24
133	New Peptide-Based Antimicrobials for Tackling Drug Resistance in Bacteria: Single-Cell Fluorescence Imaging. ACS Medicinal Chemistry Letters, 2013, 4, 556-559.	2.8	23
134	Complex Response of the CpxAR Two-Component System to Î²-Lactams on Antibiotic Resistance and Envelope Homeostasis in Enterobacteriaceae. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	22
135	Artemisia herba-alba Asso and Cymbopogon citratus (DC.) Stapf essential oils and their capability to restore antibiotics efficacy. Industrial Crops and Products, 2016, 89, 399-404.	5.2	21
136	A Major Outer Membrane Protein of Rahnella aquatilis Functions as a Porin and Root Adhesin. Journal of Bacteriology, 1998, 180, 909-913.	2.2	21
137	Involvement of exposed polypeptide loops in trimeric stability and membrane insertion of Escherichia coli OmpF porin. FEBS Journal, 1994, 222, 625-630.	0.2	20
138	Production of the cryptic EefABC efflux pump in Enterobacter aerogenes chloramphenicol-resistant mutants. Journal of Antimicrobial Chemotherapy, 2006, 57, 1223-1226.	3.0	20
139	An Intertwined Network of Regulation Controls Membrane Permeability Including Drug Influx and Efflux in Enterobacteriaceae. Microorganisms, 2020, 8, 833.	3.6	20
140	Quinazoline Derivatives Designed as Efflux Pump Inhibitors: Molecular Modeling and Spectroscopic Studies. Molecules, 2021, 26, 2374.	3.8	20
141	The Campylobacter jejuni Porin Trimers Pack into Different Lattice Types when Reconstituted in the Presence of Lipid. FEBS Journal, 1997, 244, 575-579.	0.2	19
142	Use of the omp50 Gene for Identification of Campylobacter Species by PCR. Journal of Clinical Microbiology, 2004, 42, 2301-2305.	3.9	19
143	Dual Regulation of the Small RNA MicC and the Quiescent Porin OmpN in Response to Antibiotic Stress in Escherichia coli. Antibiotics, 2017, 6, 33.	3.7	19
144	Clinical Status of Efflux Resistance Mechanisms in Gram-Negative Bacteria. Antibiotics, 2021, 10, 1117.	3.7	19

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145	Enterobacter gergoviae adaptation to preservatives commonly used in cosmetic industry. International Journal of Cosmetic Science, 2014, 36, 386-395.	2.6	18
146	Modulation of Membrane Influx and Efflux in Escherichia coli Sequence Type 131 Has an Impact on Bacterial Motility, Biofilm Formation, and Virulence in a Caenorhabditis elegans Model. Antimicrobial Agents and Chemotherapy, 2016, 60, 2901-2911.	3.2	18
147	Providencia stuartii form biofilms and floating communities of cells that display high resistance to environmental insults. PLoS ONE, 2017, 12, e0174213.	2.5	18
148	Efflux Pump Blockers in Gram-Negative Bacteria: The New Generation of Hydantoin Based-Modulators to Improve Antibiotic Activity. Frontiers in Microbiology, 2016, 7, 622.	3.5	17
149	Functional refolding of the Campylobacter jejuni MOMP (major outer membrane protein) porin by GroEL from the same species. Biochemical Journal, 2004, 378, 851-856.	3.7	16
150	Preferential sensitivity of syntheses of exported proteins to translation inhibitors of low polarity in Escherichia coli. Molecular Genetics and Genomics, 1978, 164, 265-274.	2.4	15
151	Assembly of the OmpF porin of Escherichia coli B. Immunological and kinetic studies of the integration pathway. FEBS Journal, 1988, 176, 655-660.	0.2	15
152	Comparative aspects of the diffusion of norfloxacin, cefepime and spermine through the F porin channel of Enterobacter cloacae. Biochemical Journal, 2000, 348, 223.	3.7	15
153	Expression and purification of native and truncated forms of CadF, an outer membrane protein of Campylobacter. International Journal of Biological Macromolecules, 2006, 39, 135-140.	7.5	15
154	The Enterobacter aerogenes outer membrane efflux proteins TolC and EefC have different channel properties. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2559-2567.	2.6	15
155	Antibiotics and efflux: combined spectrofluorimetry and mass spectrometry to evaluate the involvement of concentration and efflux activity in antibiotic intracellular accumulation. Journal of Antimicrobial Chemotherapy, 2019, 74, 58-65.	3.0	15
156	Expression vector promoting the synthesis and export of the human growth-hormone-releasing factor in Escherichia coli. Gene, 1987, 53, 219-226.	2.2	14
157	Physiological characterisation of the efflux pump system of antibiotic-susceptible and multidrug-resistant Enterobacter aerogenes. International Journal of Antimicrobial Agents, 2010, 36, 313-318.	2.5	14
158	New Peptides with Metal Binding Abilities and Their Use as Drug Carriers. Bioconjugate Chemistry, 2014, 25, 1811-1819.	3.6	14
159	Modulation of antimicrobial resistance in clinical isolates of Enterobacter aerogenes: A strategy combining antibiotics and chemosensitisers. Journal of Global Antimicrobial Resistance, 2019, 16, 187-198.	2.2	14
160	Preparation of active iodinated specific antibodies. FEBS Letters, 1975, 59, 32-35.	2.8	13
161	Export and secretion of overproduced OmpA-Î²-lactamase inEscherichia coli. FEBS Letters, 1987, 224, 213-218.	2.8	13
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