Jean Marie Pags

List of Publications by Citations

205 papers	9,159 citations	52 h-index	86 g-index
218 ext. papers	10,668 ext. citations	5.5 avg, IF	6.24 L-index

#	Paper	IF	Citations
205	The porin and the permeating antibiotic: a selective diffusion barrier in Gram-negative bacteria. *Nature Reviews Microbiology*, **2008**, 6, 893-903	22.2	583
204	Broad-specificity efflux pumps and their role in multidrug resistance of Gram-negative bacteria. *FEMS Microbiology Reviews*, **2012**, 36, 340-63	15.1	447
203	Enterobacter aerogenes and Enterobacter cloacae; versatile bacterial pathogens confronting antibiotic treatment. *Frontiers in Microbiology*, **2015**, 6, 392	5.7	229
202	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, 826-33	4	198
201	Antibiotic efflux pumps in Gram-negative bacteria: the inhibitor response strategy. *Journal of Antimicrobial Chemotherapy*, **2007**, 59, 1223-9	5.1	176
200	Geraniol restores antibiotic activities against multidrug-resistant isolates from gram-negative species. *Antimicrobial Agents and Chemotherapy*, **2009**, 53, 2209-11	5.9	170
199	Inhibitors of efflux pumps in Gram-negative bacteria. *Trends in Molecular Medicine*, **2005**, 11, 382-9	11.5	170
198	Multiple facets of bacterial porins. *FEMS Microbiology Letters*, **2001**, 199, 1-7	2.9	167
197	Strategies for bypassing the membrane barrier in multidrug resistant Gram-negative bacteria. *FEBS Letters*, **2011**, 585, 1682-90	3.8	158
196	Porin alteration and active efflux: two in vivo drug resistance strategies used by Enterobacter aerogenes. *Microbiology (United Kingdom)*, **1998**, 144 (Pt 11), 3003-3009	2.9	147
195	Mechanisms of envelope permeability and antibiotic influx and efflux in Gram-negative bacteria. *Nature Microbiology*, **2017**, 2, 17001	26.6	144
194	Membrane permeability and regulation of drug "influx and efflux" in enterobacterial pathogens. *Current Drug Targets*, **2008**, 9, 750-9	3	138
193	Antibiotic stress, genetic response and altered permeability of E. coli. *PLoS ONE*, **2007**, 2, e365	3.7	138
192	Antibacterial activity of Thymus maroccanus and Thymus broussonetii essential oils against nosocomial infection - bacteria and their synergistic potential with antibiotics. *Phytomedicine*, **2012**, 19, 464-71	6.5	135
191	Quinoline derivatives as promising inhibitors of antibiotic efflux pump in multidrug resistant Enterobacter aerogenes isolates. *Current Drug Targets*, **2006**, 7, 843-7	3	134
190	The AcrAB-TolC efflux pump contributes to multidrug resistance in the nosocomial pathogen Enterobacter aerogenes. *Antimicrobial Agents and Chemotherapy*, **2002**, 46, 2640-3	5.9	122
189	A new mechanism of antibiotic resistance in Enterobacteriaceae induced by a structural modification of the major porin. *Molecular Microbiology*, **2001**, 41, 189-98	4.1	119

188	Imipenem resistance of enterobacter aerogenes mediated by outer membrane permeability. *Journal of Clinical Microbiology*, **2000**, 38, 1048-52	9.7	101
187	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	14.3	98
186	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, 157-75	1.6	97
185	Porins and small-molecule translocation across the outer membrane of Gram-negative bacteria. *Nature Reviews Microbiology*, **2020**, 18, 164-176	22.2	95
184	Antibacterial activities of selected Cameroonian spices and their synergistic effects with antibiotics against multidrug-resistant phenotypes. *BMC Complementary and Alternative Medicine*, **2011**, 11, 104	4.7	94
183	spp.: Update on Taxonomy, Clinical Aspects, and Emerging Antimicrobial Resistance. *Clinical Microbiology Reviews*, **2019**, 32,	34	91
182	Detection and prevalence of active drug efflux mechanism in various multidrug-resistant Klebsiella pneumoniae strains from Turkey. *Journal of Clinical Microbiology*, **2004**, 42, 2701-6	9.7	90
181	Alkylaminoquinolines inhibit the bacterial antibiotic efflux pump in multidrug-resistant clinical isolates. *Biochemical Journal*, **2003**, 376, 801-5	3.8	90
180	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, 3621-4	5.9	89
179	Oxacillinase-mediated resistance to cefepime and susceptibility to ceftazidime in Pseudomonas aeruginosa. *Antimicrobial Agents and Chemotherapy*, **2001**, 45, 1615-20	5.9	87
178	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, 1080-7	5.9	82
177	RamA is an alternate activator of the multidrug resistance cascade in Enterobacter aerogenes. *Antimicrobial Agents and Chemotherapy*, **2004**, 48, 2518-23	5.9	80
176	Most Enterobacter aerogenes strains in France belong to a prevalent clone. *Journal of Clinical Microbiology*, **1999**, 37, 2165-9	9.7	79
175	Efflux pump, the masked side of beta-lactam resistance in Klebsiella pneumoniae clinical isolates. *PLoS ONE*, **2009**, 4, e4817	3.7	79
174	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, 1261-4	5.1	78
173	Efflux pumps are involved in the defense of Gram-negative bacteria against the natural products isobavachalcone and diospyrone. *Antimicrobial Agents and Chemotherapy*, **2010**, 54, 1749-52	5.9	76
172	Structure, Function and Regulation of Outer Membrane Proteins Involved in Drug Transport in Enterobactericeae: the OmpF/C - TolC Case. *Open Microbiology Journal*, **2013**, 7, 22-33	0.8	74
171	Role of the Outer Membrane and Porins in Susceptibility of β-Lactamase-Producing Enterobacteriaceae to Ceftazidime-Avibactam. *Antimicrobial Agents and Chemotherapy*, **2015**, 60, 1349-59	5.9	73

170	Identification of an OprD homologue in Acinetobacter baumannii. *Journal of Proteome Research*, **2005**, 4, 2386-90	5.6	71
169	How beta-lactam antibiotics enter bacteria: a dialogue with the porins. *PLoS ONE*, **2009**, 4, e5453	3.7	71
168	Getting Drugs into Gram-Negative Bacteria: Rational Rules for Permeation through General Porins. *ACS Infectious Diseases*, **2018**, 4, 1487-1498	5.5	71
167	Inhibitors of antibiotic efflux in resistant Enterobacter aerogenes and Klebsiella pneumoniae strains. *Antimicrobial Agents and Chemotherapy*, **2004**, 48, 1043-6	5.9	70
166	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	3.8	70
165	Successive emergence of Enterobacter aerogenes strains resistant to imipenem and colistin in a patient. *Antimicrobial Agents and Chemotherapy*, **2005**, 49, 1354-8	5.9	64
164	A Simple Method for Assessment of MDR Bacteria for Over-Expressed Efflux Pumps. *Open Microbiology Journal*, **2013**, 7, 72-82	0.8	63
163	Imipenem and expression of multidrug efflux pump in Enterobacter aerogenes. *Biochemical and Biophysical Research Communications*, **2003**, 301, 985-90	3.4	62
162	Essential oils from Moroccan plants as potential chemosensitisers restoring antibiotic activity in resistant Gram-negative bacteria. *International Journal of Antimicrobial Agents*, **2011**, 38, 325-30	14.3	60
161	Molecular basis of macrolide resistance in Campylobacter: role of efflux pumps and target mutations. *Journal of Antimicrobial Chemotherapy*, **2005**, 56, 491-7	5.1	59
160	New pyridoquinoline derivatives as potential inhibitors of the fluoroquinolone efflux pump in resistant Enterobacter aerogenes strains. *Journal of Medicinal Chemistry*, **2001**, 44, 4023-6	8.3	59
159	Resistance to imipenem, cefepime, and cefpirome associated with mutation in Omp36 osmoporin of Enterobacter aerogenes. *Biochemical and Biophysical Research Communications*, **2004**, 317, 851-6	3.4	58
158	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		58
157	A phenylalanine-arginine beta-naphthylamide sensitive multidrug efflux pump involved in intrinsic and acquired resistance of Campylobacter to macrolides. *International Journal of Antimicrobial Agents*, **2003**, 22, 237-41	14.3	54
156	Modification of outer membrane protein profile and evidence suggesting an active drug pump in Enterobacter aerogenes clinical strains. *Antimicrobial Agents and Chemotherapy*, **2003**, 47, 1555-9	5.9	54
155	Inhibitors of antibiotic efflux pump in resistant Enterobacter aerogenes strains. *Biochemical and Biophysical Research Communications*, **2002**, 293, 1370-3	3.4	54
154	Membrane permeability modifications are involved in antibiotic resistance in Klebsiella pneumoniae. *Biochemical and Biophysical Research Communications*, **2000**, 274, 496-9	3.4	53
153	Chloramphenicol and expression of multidrug efflux pump in Enterobacter aerogenes. *Biochemical and Biophysical Research Communications*, **2005**, 328, 1113-8	3.4	51

152	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, 3190-8	5.9	50
151	An adaptive response of Enterobacter aerogenes to imipenem: regulation of porin balance in clinical isolates. *International Journal of Antimicrobial Agents*, **2013**, 41, 130-6	14.3	49
150	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, 367-74	5.9	49
149	Comparative aspects of the diffusion of norfloxacin, cefepime and spermine through the F porin channel of Enterobacter cloacae. *Biochemical Journal*, **2000**, 348, 223-227	3.8	49
148	Membrane efflux and influx modulate both multidrug resistance and virulence of Klebsiella pneumoniae in a Caenorhabditis elegans model. *Antimicrobial Agents and Chemotherapy*, **2010**, 54, 4373-8	5.9	47
147	Mechanistic aspects of the transfer of nascent periplasmic proteins across the cytoplasmic membrane in Escherichia coli. *FEBS Journal*, **1978**, 86, 589-602		47
146	Antibiotic transport in resistant bacteria: synchrotron UV fluorescence microscopy to determine antibiotic accumulation with single cell resolution. *PLoS ONE*, **2012**, 7, e38624	3.7	47
145	Conjugation of a new series of dithiocarbazate Schiff base Copper(II) complexes with vectors selected to enhance antibacterial activity. *Bioconjugate Chemistry*, **2014**, 25, 2269-84	6.3	46
144	Implication of porins in beta-lactam resistance of Providencia stuartii. *Journal of Biological Chemistry*, **2010**, 285, 32273-81	5.4	46
143	mar Operon involved in multidrug resistance of Enterobacter aerogenes. *Antimicrobial Agents and Chemotherapy*, **2002**, 46, 1093-7	5.9	46
142	Normal precursors of periplasmic proteins accumulated in the cytoplasm are not exported post-translationally in Escherichia coli. *FEBS Journal*, **1984**, 143, 499-505		46
141	Squalamine: an appropriate strategy against the emergence of multidrug resistant gram-negative bacteria?. *PLoS ONE*, **2008**, 3, e2765	3.7	45
140	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	6.8	45
139	Microspectrometric insights on the uptake of antibiotics at the single bacterial cell level. *Scientific Reports*, **2015**, 5, 17968	4.9	44
138	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	2.3	44
137	Alteration of pore properties of Escherichia coli OmpF induced by mutation of key residues in anti-loop 3 region. *Biochemical Journal*, **2002**, 363, 521-8	3.8	44
136	Toward screening for antibiotics with enhanced permeation properties through bacterial porins. *Biochemistry*, **2010**, 49, 6928-35	3.2	42
135	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	3.7	42

134	Beta-lactam screening by specific residues of the OmpF eyelet. *Journal of Medicinal Chemistry*, **2005**, 48, 1395-400	8.3	42
133	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, 309-35	6.5	42
132	Enterobacter aerogenes OmpX, a cation-selective channel mar- and osmo-regulated. *FEBS Letters*, **2004**, 569, 27-30	3.8	41
131	MOMP (major outer membrane protein) of Campylobacter jejuni; a versatile pore-forming protein. *FEBS Letters*, **2000**, 469, 93-7	3.8	41
130	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, 623723	2.3	40
129	Fluoroquinolone structure and translocation flux across bacterial membrane. *Scientific Reports*, **2017**, 7, 9821	4.9	38
128	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, 164-8	14.3	38
127	Identification and evolution of drug efflux pump in clinical Enterobacter aerogenes strains isolated in 1995 and 2003. *PLoS ONE*, **2008**, 3, e3203	3.7	37
126	In vivo modification of porin activity conferring antibiotic resistance to Enterobacter aerogenes. *Biochemical and Biophysical Research Communications*, **1999**, 266, 248-51	3.4	36
125	The orientation of porin OmpF in the outer membrane of Escherichia coli. *Journal of Molecular Biology*, **1993**, 233, 400-13	6.5	36
124	New peptide deformylase inhibitors and cooperative interaction: a combination to improve antibacterial activity. *Journal of Antimicrobial Chemotherapy*, **2012**, 67, 1392-400	5.1	34
123	Structural and functional study of the phenicol-specific efflux pump FloR belonging to the major facilitator superfamily. *Antimicrobial Agents and Chemotherapy*, **2005**, 49, 2965-71	5.9	33
122	In Vivo Evolution of Bacterial Resistance in Two Cases of Enterobacter aerogenes Infections during Treatment with Imipenem. *PLoS ONE*, **2015**, 10, e0138828	3.7	33
121	Efflux mechanism, an attractive target to combat multidrug resistant Plasmodium falciparum and Pseudomonas aeruginosa. *Current Medicinal Chemistry*, **2009**, 16, 301-17	4.3	32
120	Efflux pumps of gram-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		32
119	Propyl paraben induces potassium efflux in Escherichia coli. *Journal of Antimicrobial Chemotherapy*, **2005**, 55, 1013-5	5.1	31
118	Crucial domains are conserved in Enterobacteriaceae porins. *FEMS Microbiology Letters*, **1996**, 136, 91-7	2.9	31
117	Spectrofluorimetric quantification of antibiotic drug concentration in bacterial cells for the characterization of translocation across bacterial membranes. *Nature Protocols*, **2018**, 13, 1348-1361	18.8	31

116	Omp35, a new Enterobacter aerogenes porin involved in selective susceptibility to cephalosporins. *Antimicrobial Agents and Chemotherapy*, **2004**, 48, 2153-8	5.9	30
115	The eefABC multidrug efflux pump operon is repressed by H-NS in Enterobacter aerogenes. *Journal of Bacteriology*, **2005**, 187, 3894-7	3.5	30
114	New antibiotic molecules: bypassing the membrane barrier of gram negative bacteria increases the activity of peptide deformylase inhibitors. *PLoS ONE*, **2009**, 4, e6443	3.7	30
113	Squalamine, an original chemosensitizer to combat antibiotic-resistant gram-negative bacteria. *Journal of Antimicrobial Chemotherapy*, **2010**, 65, 799-801	5.1	29
112	Efflux pumps of gram-negative bacteria, a new target for new molecules. *Current Topics in Medicinal Chemistry*, **2010**, 10, 1848-57	3	29
111	Natural extracts stimulate membrane-associated mechanisms of resistance in Gram-negative bacteria. *Letters in Applied Microbiology*, **2014**, 58, 472-7	2.9	28
110	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	5.5	28
109	Antibiotic uptake through membrane channels: role of Providencia stuartii OmpPst1 porin in carbapenem resistance. *Biochemistry*, **2012**, 51, 10244-9	3.2	28
108	Hydroxamic acids as potent inhibitors of Fe(II) and Mn(II) E. coli methionine aminopeptidase: biological activities and X-ray structures of oxazole hydroxamate-EcMetAP-Mn complexes. *ChemMedChem*, **2012**, 7, 1020-30	3.7	28
107	Involvement of the efflux pumps in chloramphenicol selected strains of Burkholderia thailandensis: proteomic and mechanistic evidence. *PLoS ONE*, **2011**, 6, e16892	3.7	28
106	Amine-alkyl derivatives of hydantoin: new tool to combat resistant bacteria. *European Journal of Medicinal Chemistry*, **2011**, 46, 5807-16	6.8	28
105	Stress responses, outer membrane permeability control and antimicrobial resistance in Enterobacteriaceae. *Microbiology (United Kingdom)*, **2018**, 164, 260-267	2.9	28
104	Maturation of Exported Proteins in Escherichia coli. *FEBS Journal*, **2005**, 124, 561-566		27
103	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, 4209-15	4.8	27
102	Search for new tools to combat Gram-negative resistant bacteria among amine derivatives of 5-arylidenehydantoin. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 135-45	3.4	26
101	Chloroquinolines block antibiotic efflux pumps in antibiotic-resistant Enterobacter aerogenes isolates. *International Journal of Antimicrobial Agents*, **2006**, 27, 565-9	14.3	26
100	4-alkoxy and 4-thioalkoxyquinoline derivatives as chemosensitizers for the chloramphenicol-resistant clinical Enterobacter aerogenes 27 strain. *International Journal of Antimicrobial Agents*, **2003**, 22, 270-3	14.3	26
99	MOMP, a divergent porin from Campylobacter: cloning and primary structural characterization. *Biochemical and Biophysical Research Communications*, **2001**, 280, 380-7	3.4	26

98	An alkylaminoquinazoline restores antibiotic activity in Gram-negative resistant isolates. *Microbiology (United Kingdom)*, **2011**, 157, 566-571	2.9	25
97	Antibiotic-resistant Campylobacter: could efflux pump inhibitors control infection?. *Journal of Antimicrobial Chemotherapy*, **2007**, 59, 1230-6	5.1	25
96	Dynamics of the exposure of epitopes on OmpF, an outer membrane protein of Escherichia coli. *FEBS Journal*, **1992**, 206, 109-14		25
95	An instrument-free method for the demonstration of efflux pump activity of bacteria. *In Vivo*, **2006**, 20, 657-64	2.3	25
94	Interplay Between Membrane Permeability and Enzymatic Barrier Leads to Antibiotic-Dependent Resistance in. *Frontiers in Microbiology*, **2018**, 9, 1422	5.7	24
93	Interplay between three RND efflux pumps in doxycycline-selected strains of Burkholderia thailandensis. *PLoS ONE*, **2013**, 8, e84068	3.7	24
92	Outer Membrane Porins. *Sub-Cellular Biochemistry*, **2019**, 92, 79-123	5.5	23
91	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, 2874-82	5.1	23
90	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	2.1	23
89	Purification, characterization and sequence analysis of Omp50,a new porin isolated from Campylobacter jejuni. *Biochemical Journal*, **2000**, 352, 637-643	3.8	23
88	New Peptide-based antimicrobials for tackling drug resistance in bacteria: single-cell fluorescence imaging. *ACS Medicinal Chemistry Letters*, **2013**, 4, 556-9	4.3	22
87	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, 602-4	14.3	22
86	Colicins, spermine and cephalosporins: a competitive interaction with the OmpF eyelet. *Biochemical Journal*, **2003**, 376, 245-52	3.8	22
85	Evidence for synthesis of alkaline phosphatase on membrane-bound polysomes in Escherichia coli. *FEBS Journal*, **1978**, 86, 603-6		22
84	Polyamino geranic derivatives as new chemosensitizers to combat antibiotic resistant gram-negative bacteria. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 1174-9	3.4	21
83	Immunological analysis of porin polymorphism in Escherichia coli B and K-12. *Molecular Immunology* , **1989**, 26, 1027-36	4.3	21
82	A unique peptide deformylase platform to rationally design and challenge novel active compounds. *Scientific Reports*, **2016**, 6, 35429	4.9	20
81	First evidence of antibacterial and synergistic effects of Thymus riatarum essential oil with conventional antibiotics. *Industrial Crops and Products*, **2014**, 61, 370-376	5.9	20

80	Ethidium bromide efflux by Salmonella: modulation by metabolic energy, pH, ions and phenothiazines. *International Journal of Antimicrobial Agents*, **2011**, 38, 140-5	14.3	20
79	Thanatin activity on multidrug resistant clinical isolates of Enterobacter aerogenes and Klebsiella pneumoniae. *International Journal of Antimicrobial Agents*, **2003**, 22, 265-9	14.3	20
78	MOMP from Campylobacter jejuni Is a Trimer of 18-Stranded β-Barrel Monomers with a Ca Ion Bound at the Constriction Zone. *Journal of Molecular Biology*, **2016**, 428, 4528-4543	6.5	20
77	Production of the cryptic EefABC efflux pump in Enterobacter aerogenes chloramphenicol-resistant mutants. *Journal of Antimicrobial Chemotherapy*, **2006**, 57, 1223-6	5.1	19
76	Use of the omp50 gene for identification of Campylobacter species by PCR. *Journal of Clinical Microbiology*, **2004**, 42, 2301-5	9.7	19
75	In-vivo loss of carbapenem resistance by extensively drug-resistant Klebsiella pneumoniae during treatment via porin expression modification. *Scientific Reports*, **2017**, 7, 6722	4.9	18
74	Involvement of exposed polypeptide loops in trimeric stability and membrane insertion of Escherichia coli OmpF porin. *FEBS Journal*, **1994**, 222, 625-30		18
73	Polyamino-Isoprenic Derivatives Block Intrinsic Resistance of P. aeruginosa to Doxycycline and Chloramphenicol In Vitro. *PLoS ONE*, **2016**, 11, e0154490	3.7	18
72	Microspectrofluorimetry to dissect the permeation of ceftazidime in Gram-negative bacteria. *Scientific Reports*, **2017**, 7, 986	4.9	17
71	A major outer membrane protein of Rahnella aquatilis functions as a porin and root adhesin. *Journal of Bacteriology*, **1998**, 180, 909-13	3.5	17
70	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	5.9	16
69	The challenge of intracellular antibiotic accumulation, a function of fluoroquinolone influx versus bacterial efflux. *Communications Biology*, **2020**, 3, 198	6.7	15
68	The Campylobacter jejuni porin trimers pack into different lattice types when reconstituted in the presence of lipid. *FEBS Journal*, **1997**, 244, 575-9		15
67	Functional refolding of the Campylobacter jejuni MOMP (major outer membrane protein) porin by GroEL from the same species. *Biochemical Journal*, **2004**, 378, 851-6	3.8	15
66	Comparative aspects of the diffusion of norfloxacin, cefepime and spermine through the F porin channel of Enterobacter cloacae. *Biochemical Journal*, **2000**, 348, 223	3.8	15
65	Fluoroquinolone-derived fluorescent probes for studies of bacterial penetration and efflux. *MedChemComm*, **2019**, 10, 901-906	5	14
64	New peptides with metal binding abilities and their use as drug carriers. *Bioconjugate Chemistry*, **2014**, 25, 1811-9	6.3	14
63	Expression and purification of native and truncated forms of CadF, an outer membrane protein of Campylobacter. *International Journal of Biological Macromolecules*, **2006**, 39, 135-40	7.9	14

62	Preferential sensitivity of syntheses of exported proteins to translation inhibitors of low polarity in Escherichia coli. *Molecular Genetics and Genomics*, **1978**, 164, 265-74		14
61	Expression vector promoting the synthesis and export of the human growth-hormone-releasing factor in Escherichia coli. *Gene*, **1987**, 53, 219-26	3.8	13
60	Providencia stuartii form biofilms and floating communities of cells that display high resistance to environmental insults. *PLoS ONE*, **2017**, 12, e0174213	3.7	13
59	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, 2901-11	5.9	13
58	New amphiphilic neamine conjugates bearing a metal binding motif active against MDR E.´aerogenes Gram-negative bacteria. *European Journal of Medicinal Chemistry*, **2017**, 127, 748-756	6.8	12
57	Physiological characterisation of the efflux pump system of antibiotic-susceptible and multidrug-resistant Enterobacter aerogenes. *International Journal of Antimicrobial Agents*, **2010**, 36, 313-8	14.3	12
56	Overexpression and purification of the three components of the Enterobacter aerogenes AcrA-AcrB-TolC multidrug efflux pump. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2003**, 786, 197-205	3.2	12
55	Purification, characterization and sequence analysis of Omp50,a new porin isolated from Campylobacter jejuni. *Biochemical Journal*, **2000**, 352, 637	3.8	12
54	Assembly of the OmpF porin of Escherichia coli B. Immunological and kinetic studies of the integration pathway. *FEBS Journal*, **1988**, 176, 655-60		12
53	Improving the stability of a foreign protein in the periplasmic space of Escherichia coli. *Biochimie*, **1988**, 70, 727-33	4.6	12
52	Preparation of active iodinated specific antibodies. *FEBS Letters*, **1975**, 59, 32-5	3.8	12
51	The Enterobacter aerogenes outer membrane efflux proteins TolC and EefC have different channel properties. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 2559-67	3.8	11
50	Export and secretion of overproduced OmpA-beta-lactamase in Escherichia coli. *FEBS Letters*, **1987**, 224, 213-8	3.8	11
49	Dihydroethanoanthracene derivatives reverse in vitro quinoline resistance in Plasmodium falciparum malaria. *Medicinal Chemistry*, **2008**, 4, 426-37	1.8	11
48	Efflux Pump Blockers in Gram-Negative Bacteria: The New Generation of Hydantoin Based-Modulators to Improve Antibiotic Activity. *Frontiers in Microbiology*, **2016**, 7, 622	5.7	11
47	Dual Regulation of the Small RNA MicC and the Quiescent Porin OmpN in Response to Antibiotic Stress in Escherichia coli. *Antibiotics*, **2017**, 6,	4.9	10
46	Enterobacter gergoviae adaptation to preservatives commonly used in cosmetic industry. *International Journal of Cosmetic Science*, **2014**, 36, 386-95	2.7	10
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44	In vitro approaches to investigation of the early steps of colicin-OmpF interaction. *FEBS Journal*, **1994**, 224, 723-8		10
43	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	5.1	10
42	Membrane potential (delta psi) depolarizing agents inhibit maturation. *FEBS Letters*, **1982**, 149, 51-4	3.8	8
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40	Fluorescence enlightens RND pump activity and the intrabacterial concentration of antibiotics. *Research in Microbiology*, **2018**, 169, 432-441	4	8
39	Complex Response of the CpxAR Two-Component System to β-Lactams on Antibiotic Resistance and Envelope Homeostasis in. *Antimicrobial Agents and Chemotherapy*, **2020**, 64,	5.9	7
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