Maarten Fauvart

List of Publications by Year
in descending order

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81 papers	4,526 citations	172207 29 h-index	114278 63 g-index
82 all docs	82 docs citations	82 times ranked	5549 citing authors

#	Article	IF	Citations
1	Mutations in respiratory complex I promote antibiotic persistence through alterations in intracellular acidity and protein synthesis. Nature Communications, 2022, 13, 546.	5.8	21
2	QueSTR probes: Quencher-labeled RNase H2-dependent probes for Short Tandem Repeat genotyping. Sensors and Actuators B: Chemical, 2022, 361, 131714.	4.0	2
3	Single-cell transfection technologies for cell therapies and gene editing. Journal of Controlled Release, 2021, 330, 963-975.	4.8	25
4	STRide probes: Single-labeled short tandem repeat identification probes. Biosensors and Bioelectronics, 2021, 180, 113135.	5.3	3
5	Model-Driven Controlled Alteration of Nanopillar Cap Architecture Reveals its Effects on Bactericidal Activity. Microorganisms, 2020, 8, 186.	1.6	9
6	GTP Binding Is Necessary for the Activation of a Toxic Mutant Isoform of the Essential GTPase ObgE. International Journal of Molecular Sciences, 2020, 21, 16.	1.8	13
7	Image-Based Dynamic Phenotyping Reveals Genetic Determinants of Filamentation-Mediated Î²-Lactam Tolerance. Frontiers in Microbiology, 2020, 11, 374.	1.5	17
8	High-throughput time-resolved morphology screening in bacteria reveals phenotypic responses to antibiotics. Communications Biology, 2019, 2, 269.	2.0	35
9	Bacterial Heterogeneity and Antibiotic Survival: Understanding and Combatting Persistence and Heteroresistance. Molecular Cell, 2019, 76, 255-267.	4.5	123
10	Biochemical determinants of ObgEâ€mediated persistence. Molecular Microbiology, 2019, 112, 1593-1608.	1.2	7
11	Silicon ÂµPCR Chip for Forensic STR Profiling with Hybeacon Probe Melting Curves. Scientific Reports, 2019, 9, 7341.	1.6	5
12	Antibiotics: Combatting Tolerance To Stop Resistance. MBio, 2019, 10, .	1.8	103
13	Development and validation of a glass-silicon microdroplet-based system to measure sulfite concentrations in beverages. Analytical and Bioanalytical Chemistry, 2019, 411, 1127-1134.	1.9	3
14	Bacterial persistence promotes the evolution of antibiotic resistance by increasing survival and mutation rates. ISME Journal, 2019, 13, 1239-1251.	4.4	223
15	Ultra-fast, sensitive and quantitative on-chip detection of group B streptococci in clinical samples. Talanta, 2019, 192, 220-225.	2.9	12
16	Fighting bacterial persistence: Current and emerging anti-persister strategies and therapeutics. Drug Resistance Updates, 2018, 38, 12-26.	6.5	167
17	An integrative view of cell cycle control in Escherichia coli. FEMS Microbiology Reviews, 2018, 42, 116-136.	3.9	63
18	Rapid and sensitive detection of viral nucleic acids using silicon microchips. Analyst, The, 2018, 143, 2596-2603.	1.7	19

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19	Multiplex STR amplification sensitivity in a silicon microchip. Scientific Reports, 2018, 8, 9853.	1.6	8
20	Experimental Design, Population Dynamics, and Diversity in Microbial Experimental Evolution. Microbiology and Molecular Biology Reviews, 2018, 82, .	2.9	132
21	The Putative De-N-acetylase DnpA Contributes to Intracellular and Biofilm-Associated Persistence of Pseudomonas aeruginosa Exposed to Fluoroquinolones. Frontiers in Microbiology, 2018, 9, 1455.	1.5	6
22	1-((2,4-Dichlorophenethyl)Amino)-3-Phenoxypropan-2-ol Kills Pseudomonas aeruginosa through Extensive Membrane Damage. Frontiers in Microbiology, 2018, 9, 129.	1.5	9
23	Stabbed while Sleeping: Synthetic Retinoid Antibiotics Kill Bacterial Persister Cells. Molecular Cell, 2018, 70, 763-764.	4.5	5
24	<i>In vitro</i> activity of the antiasthmatic drug zafirlukast against the oral pathogens <i>Porphyromonas gingivalis</i> and <i>Streptococcus mutans</i>. FEMS Microbiology Letters, 2017, 364, fnx005.	0.7	15
25	Structural and biochemical analysis of Escherichia coli ObgE, a central regulator of bacterial persistence. Journal of Biological Chemistry, 2017, 292, 5871-5883.	1.6	20
26	Identification of 1-((2,4-Dichlorophenethyl)Amino)-3-Phenoxypropan-2-ol, a Novel Antibacterial Compound Active against Persisters of Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	16
27	Repurposing Toremifene for Treatment of Oral Bacterial Infections. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	25
28	Repurposing AM404 for the treatment of oral infections by <scp><i>Porphyromonas gingivalis</i></scp>. Clinical and Experimental Dental Research, 2017, 3, 69-76.	0.8	8
29	Formation, physiology, ecology, evolution and clinical importance of bacterial persisters. FEMS Microbiology Reviews, 2017, 41, 219-251.	3.9	291
30	A Mutant Isoform of ObgE Causes Cell Death by Interfering with Cell Division. Frontiers in Microbiology, 2017, 8, 1193.	1.5	14
31	Antibacterial Activity of 1-[(2,4-Dichlorophenethyl)amino]-3-Phenoxypropan-2-ol against Antibiotic-Resistant Strains of Diverse Bacterial Pathogens, Biofilms and in Pre-clinical Infection Models. Frontiers in Microbiology, 2017, 8, 2585.	1.5	9
32	Adaptive tuning of mutation rates allows fast response to lethal stress in Escherichia coli. ELife, 2017, 6, .	2.8	86
33	Elucidation of the Mode of Action of a New Antibacterial Compound Active against Staphylococcus aureus and Pseudomonas aeruginosa. PLoS ONE, 2016, 11, e0155139.	1.1	30
34	Antibacterial activity of a new broadâ€spectrum antibiotic covalently bound to titanium surfaces. Journal of Orthopaedic Research, 2016, 34, 2191-2198.	1.2	29
35	Efficacy of Artilysin Art-175 against Resistant and Persistent Acinetobacter baumannii. Antimicrobial Agents and Chemotherapy, 2016, 60, 3480-3488.	1.4	99
36	<i>In Vitro</i> Emergence of High Persistence upon Periodic Aminoglycoside Challenge in the ESKAPE Pathogens. Antimicrobial Agents and Chemotherapy, 2016, 60, 4630-4637.	1.4	75

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37	Draft genome sequence of Acinetobacter baumannii strain NCTC 13423, a multidrug-resistant clinical isolate. Standards in Genomic Sciences, 2016, 11, 57.	1.5	6
38	Multiplex SNP genotyping in whole blood using an integrated microfluidic lab-on-a-chip. Lab on A Chip, 2016, 16, 4012-4019.	3.1	17
39	Membrane localization and topology of the DnpA protein control fluoroquinolone tolerance in<i>Pseudomonas aeruginosa</i>. FEMS Microbiology Letters, 2016, 363, fnw184.	0.7	5
40	Frequency of antibiotic application drives rapid evolutionary adaptation of Escherichia coli persistence. Nature Microbiology, 2016, 1, 16020.	5.9	210
41	Reactive oxygen species do not contribute to ObgE*-mediated programmed cell death. Scientific Reports, 2016, 6, 33723.	1.6	14
42	Draft genome sequence of Enterococcus faecium strain LMG 8148. Standards in Genomic Sciences, 2016, 11, 63.	1.5	0
43	Should we develop screens for multi-drug antibiotic tolerance?. Expert Review of Anti-Infective Therapy, 2016, 14, 613-616.	2.0	19
44	Covalent immobilization of antimicrobial agents on titanium prevents<i>Staphylococcus aureus</i>and<i>Candida albicans</i>colonization and biofilm formation. Journal of Antimicrobial Chemotherapy, 2016, 71, 936-945.	1.3	68
45	A Historical Perspective on Bacterial Persistence. Methods in Molecular Biology, 2016, 1333, 3-13.	0.4	19
46	A Whole-Cell-Based High-Throughput Screening Method to Identify Molecules Targeting Pseudomonas aeruginosa Persister Cells. Methods in Molecular Biology, 2016, 1333, 113-120.	0.4	2
47	The bacterial cell cycle checkpoint protein Obg and its role in programmed cell death. Microbial Cell, 2016, 3, 255-256.	1.4	5
48	Obg and Membrane Depolarization Are Part of a Microbial Bet-Hedging Strategy that Leads to Antibiotic Tolerance. Molecular Cell, 2015, 59, 9-21.	4.5	261
49	A Single-Amino-Acid Substitution in Obg Activates a New Programmed Cell Death Pathway in Escherichia coli. MBio, 2015, 6, e01935-15.	1.8	22
50	The Role of Biosurfactants in Bacterial Systems. Biological and Medical Physics Series, 2015, , 189-204.	0.3	3
51	Fitness tradeâ€offs explain low levels of persister cells in the opportunistic pathogen <i>PseudomonasÂaeruginosa</i>. Molecular Ecology, 2015, 24, 1572-1583.	2.0	38
52	Membrane depolarization-triggered responsive diversification leads to antibiotic tolerance. Microbial Cell, 2015, 2, 299-301.	1.4	8
53	Bacterial Obg proteins: GTPases at the nexus of protein and DNA synthesis. Critical Reviews in Microbiology, 2014, 40, 207-224.	2.7	54
54	Effects of co-inoculation of native Rhizobium and Pseudomonas strains on growth parameters and yield of two contrasting Phaseolus vulgaris L. genotypes under Cuban soil conditions. European Journal of Soil Biology, 2014, 62, 105-112.	1.4	67

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55	Adult human liver mesenchymal progenitor cells express phenylalanine hydroxylase. Journal of Pediatric Endocrinology and Metabolism, 2014, 27, 863-8.	0.4	3
56	Identification and characterization of an anti-pseudomonal dichlorocarbazol derivative displaying anti-biofilm activity. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5404-5408.	1.0	16
57	Genomic analysis of cyclic-di-GMP-related genes in rhizobial type strains and functional analysis in Rhizobium etli. Applied Microbiology and Biotechnology, 2014, 98, 4589-4602.	1.7	23
58	A putative de-<i>N</i>-acetylase of the PIG-L superfamily affects fluoroquinolone tolerance in<i>Pseudomonas aeruginosa</i>. Pathogens and Disease, 2014, 71, 39-54.	0.8	25
59	Canonical and nonâ€canonical EcfG sigma factors control the general stress response in <i>Rhizobium etli</i>. MicrobiologyOpen, 2013, 2, 976-987.	1.2	25
60	The <i>Escherichia</i>â€ƒ<i>coli</i> GTPase ObgE modulates hydroxyl radical levels in response to DNA replication fork arrest. FEBS Journal, 2012, 279, 3692-3704.	2.2	9
61	New-found fundamentals of bacterial persistence. Trends in Microbiology, 2012, 20, 577-585.	3.5	126
62	Surface tension gradient control of bacterial swarming in colonies of Pseudomonas aeruginosa. Soft Matter, 2012, 8, 70-76.	1.2	57
63	Neonatal Thyroid-Stimulating Hormone Concentrations in Belgium: A Useful Indicator for Detecting Mild Iodine Deficiency?. PLoS ONE, 2012, 7, e47770.	1.1	44
64	Pseudomonas aeruginosa fosfomycin resistance mechanisms affect non-inherited fluoroquinolone tolerance. Journal of Medical Microbiology, 2011, 60, 329-336.	0.7	33
65	Role of persister cells in chronic infections: clinical relevance and perspectives on anti-persister therapies. Journal of Medical Microbiology, 2011, 60, 699-709.	0.7	356
66	Stress response regulators identified through genome-wide transcriptome analysis of the (p)ppGpp-dependent response in Rhizobium etli. Genome Biology, 2011, 12, R17.	13.9	74
67	A Comparative Transcriptome Analysis of <i>Rhizobium etli</i> Bacteroids: Specific Gene Expression During Symbiotic Nongrowth. Molecular Plant-Microbe Interactions, 2011, 24, 1553-1561.	1.4	28
68	The Universally Conserved Prokaryotic GTPases. Microbiology and Molecular Biology Reviews, 2011, 75, 507-542.	2.9	175
69	Genome Sequence of Rhizobium etli CNPAF512, a Nitrogen-Fixing Symbiont Isolated from Bean Root Nodules in Brazil. Journal of Bacteriology, 2011, 193, 3158-3159.	1.0	10
70	Genome-wide detection of predicted non-coding RNAs in Rhizobium etli expressed during free-living and host-associated growth using a high-resolution tiling array. BMC Genomics, 2010, 11, 53.	1.2	42
71	Rhizobium etli HrpW is a pectin-degrading enzyme and differs from phytopathogenic homologues in enzymically crucial tryptophan and glycine residues. Microbiology (United Kingdom), 2009, 155, 3045-3054.	0.7	22
72	Novel persistence genes in<i>Pseudomonas aeruginosa</i>identified by high-throughput screening. FEMS Microbiology Letters, 2009, 297, 73-79.	0.7	166

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73	Identification of novel persistence genes in Pseudomonas aeruginosa in the combat against emerging antimicrobial resistance. Communications in Agricultural and Applied Biological Sciences, 2009, 74, 51-6.	0.0	1
74	Genetic Determinants of Swarming in Rhizobium etli. Microbial Ecology, 2008, 55, 54-64.	1.4	28
75	Rhizobial secreted proteins as determinants of host specificity in the rhizobiumÃ¢Â€Â“legume symbiosis. FEMS Microbiology Letters, 2008, 285, 1-9.	0.7	139
76	Pleiotropic effects of a rel mutation on stress survival of Rhizobium etli CNPAF512. BMC Microbiology, 2008, 8, 219.	1.3	18
77	Living on a surface: swarming and biofilm formation. Trends in Microbiology, 2008, 16, 496-506.	3.5	402
78	Identification of a novel glyoxylate reductase supports phylogeny-based enzymatic substrate specificity prediction. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 1092-1098.	1.1	10
79	TheRhizobium etli optoperon is required for symbiosis and stress resistance. Environmental Microbiology, 2007, 9, 1665-1674.	1.8	7
80	Interaction of an IHF-like protein with the Rhizobium etli nifA promoter. FEMS Microbiology Letters, 2007, 271, 20-26.	0.7	6
81	Quorum signal molecules as biosurfactants affecting swarming in Rhizobium etli. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14965-14970.	3.3	135