

Catherine Vilcheze

List of Publications by Year in descending order

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78
papers

6,583
citations

66343

42
h-index

79698

73
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all docs

79
docs citations

79
times ranked

7142
citing authors

#	ARTICLE	IF	CITATIONS
1	Sterilization by Adaptive Immunity of a Conditionally Persistent Mutant of <i>Mycobacterium tuberculosis</i> . <i>MBio</i> , 2021, 12, .	4.1	1
2	The Promises and Limitations of <i>N</i> -Acetylcysteine as a Potentiator of First-Line and Second-Line Tuberculosis Drugs. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	7
3	Elimination of PknL and MSMEG_4242 in <i>Mycobacterium smegmatis</i> alters the character of the outer cell envelope and selects for mutations in Lsr2. <i>Cell Surface</i> , 2021, 7, 100060.	3.0	3
4	Characterization of Large Deletion Mutants of <i>Mycobacterium tuberculosis</i> Selected for Isoniazid Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	3
5	3-(Phenethylamino)demethyl(oxy)amphetamine as an anti-dormant mycobacterial substance: Isolation, evaluation and total synthesis. <i>Tetrahedron Letters</i> , 2020, 61, 151924.	1.4	11
6	Mycobacterial Cell Wall: A Source of Successful Targets for Old and New Drugs. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2278.	2.5	44
7	The Isoniazid Paradigm of Killing, Resistance, and Persistence in <i>Mycobacterium tuberculosis</i> . <i>Journal of Molecular Biology</i> , 2019, 431, 3450-3461.	4.2	98
8	Small Molecules Targeting <i>Mycobacterium tuberculosis</i> Type II NADH Dehydrogenase Exhibit Antimycobacterial Activity. <i>Angewandte Chemie</i> , 2018, 130, 3536-3540.	2.0	6
9	Plasticity of <i>Mycobacterium tuberculosis</i> NADH dehydrogenases and their role in virulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1599-1604.	7.1	58
10	Small Molecules Targeting <i>Mycobacterium tuberculosis</i> Type II NADH Dehydrogenase Exhibit Antimycobacterial Activity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3478-3482.	13.8	42
11	Vitamin C Potentiates the Killing of <i>Mycobacterium tuberculosis</i> by the First-Line Tuberculosis Drugs Isoniazid and Rifampin in Mice. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	39
12	Reply to Yew et al., "Vitamin C and <i>Mycobacterium tuberculosis</i> Persists". <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	0
13	Rational Design of Biosafety Level 2-Approved, Multidrug-Resistant Strains of <i>Mycobacterium tuberculosis</i> through Nutrient Auxotrophy. <i>MBio</i> , 2018, 9, .	4.1	50
14	Arginine-deprivation-induced oxidative damage sterilizes <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9779-9784.	7.1	97
15	Enhanced respiration prevents drug tolerance and drug resistance in <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4495-4500.	7.1	157
16	Defining a temporal order of genetic requirements for development of mycobacterial biofilms. <i>Molecular Microbiology</i> , 2017, 105, 794-809.	2.5	48
17	Acid-Fast Positive and Acid-Fast Negative <i>Mycobacterium tuberculosis</i> : The Koch Paradox. <i>Microbiology Spectrum</i> , 2017, 5, .	3.0	53
18	Addressing the Metabolic Stability of Antituberculars through Machine Learning. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 1099-1104.	2.8	13

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19	Determinants of the Inhibition of DprE1 and CYP2C9 by Antitubercular Thiophenes. <i>Angewandte Chemie</i> , 2017, 129, 13191-13195.	2.0	1
20	Determinants of the Inhibition of DprE1 and CYP2C9 by Antitubercular Thiophenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13011-13015.	13.8	36
21	Deletion of a dehydratase important for intracellular growth and cording renders rough <i>Mycobacterium abscessus</i> avirulent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4228-37.	7.1	67
22	Dual-Reporter Mycobacteriophages (ϕ DRMs) Reveal Preexisting Mycobacterium tuberculosis Persistent Cells in Human Sputum. <i>MBio</i> , 2016, 7, .	4.1	67
23	Targeting Mycobacterium tuberculosis Tumor Necrosis Factor Alpha-Downregulating Genes for the Development of Antituberculous Vaccines. <i>MBio</i> , 2016, 7, .	4.1	52
24	Separable roles for <i>Mycobacterium tuberculosis</i> ESX-3 effectors in iron acquisition and virulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E348-57.	7.1	166
25	Synthesis and biological activity of alkynoic acids derivatives against mycobacteria. <i>Chemistry and Physics of Lipids</i> , 2016, 194, 125-138.	3.2	4
26	The Complete Genome Sequence of the Emerging Pathogen Mycobacterium haemophilum Explains Its Unique Culture Requirements. <i>MBio</i> , 2015, 6, e01313-15.	4.1	30
27	Evolution of a thienopyrimidine antitubercular relying on medicinal chemistry and metabolomics insights. <i>Tetrahedron Letters</i> , 2015, 56, 3246-3250.	1.4	27
28	Auranofin exerts broad-spectrum bactericidal activities by targeting thiol-redox homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4453-4458.	7.1	259
29	Succinate Dehydrogenase is the Regulator of Respiration in Mycobacterium tuberculosis. <i>PLoS Pathogens</i> , 2014, 10, e1004510.	4.7	87
30	Phosphorylation of KasB Regulates Virulence and Acid-Fastness in Mycobacterium tuberculosis. <i>PLoS Pathogens</i> , 2014, 10, e1004115.	4.7	63
31	Energetics of Respiration and Oxidative Phosphorylation in Mycobacteria. <i>Microbiology Spectrum</i> , 2014, 2, .	3.0	164
32	Measurements of the in vitro anti-mycobacterial activity of ivermectin are method-dependent-authors' response. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 1725-1726.	3.0	0
33	Enhanced Specialized Transduction Using Recombineering in Mycobacterium tuberculosis. <i>MBio</i> , 2014, 5, e01179-14.	4.1	25
34	Measurements of the in vitro anti-mycobacterial activity of ivermectin are method-dependent. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 1723-1724.	3.0	4
35	Biological Evaluation of Potent Triclosan-Derived Inhibitors of the Enoyl- β -Acyl Carrier Protein Reductase InhA in Drug-Sensitive and Drug-Resistant Strains of <i>Mycobacterium tuberculosis</i> . <i>ChemMedChem</i> , 2014, 9, 2528-2537.	3.2	26
36	Resistance to Isoniazid and Ethionamide in <i>Mycobacterium tuberculosis</i> : Genes, Mutations, and Causalities. <i>Microbiology Spectrum</i> , 2014, 2, MGM2-0014-2013.	3.0	204

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37	Anthelmintic Avermectins Kill <i>Mycobacterium tuberculosis</i> , Including Multidrug-Resistant Clinical Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1040-1046.	3.2	114
38	<i>Mycobacterium tuberculosis</i> is extraordinarily sensitive to killing by a vitamin C-induced Fenton reaction. <i>Nature Communications</i> , 2013, 4, 1881.	12.8	261
39	Antituberculosis thiophenes define a requirement for Pks13 in mycolic acid biosynthesis. <i>Nature Chemical Biology</i> , 2013, 9, 499-506.	8.0	129
40	Keto-Mycolic Acid-Dependent Pellicle Formation Confers Tolerance to Drug-Sensitive <i>Mycobacterium tuberculosis</i> . <i>MBio</i> , 2013, 4, e00222-13.	4.1	103
41	The Combination of Sulfamethoxazole, Trimethoprim, and Isoniazid or Rifampin Is Bactericidal and Prevents the Emergence of Drug Resistance in <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 5142-5148.	3.2	58
42	Einstein Contained Aerosol Pulmonizer (ECAP): Improved Biosafety for Multi-Drug Resistant (MDR) and Extensively Drug Resistant (XDR) <i>Mycobacterium tuberculosis</i> Aerosol Infection Studies. <i>Applied Biosafety</i> , 2011, 16, 134-138.	0.5	4
43	Novel Inhibitors of InhA Efficiently Kill <i>Mycobacterium tuberculosis</i> under Aerobic and Anaerobic Conditions. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 3889-3898.	3.2	60
44	Coresistance to Isoniazid and Ethionamide Maps to Mycothiol Biosynthetic Genes in <i>Mycobacterium bovis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4422-4423.	3.2	31
45	Precise Null Deletion Mutations of the Mycothiol Synthesis Genes Reveal Their Role in Isoniazid and Ethionamide Resistance in <i>Mycobacterium smegmatis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 3133-3139.	3.2	44
46	Trichoderins, novel aminolipopeptides from a marine sponge-derived <i>Trichoderma</i> sp., are active against dormant mycobacteria. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 3658-3663.	2.2	146
47	NAD ⁺ auxotrophy is bacteriocidal for the tubercle bacilli. <i>Molecular Microbiology</i> , 2010, 76, 365-377.	2.5	49
48	Phosphorylation of InhA inhibits mycolic acid biosynthesis and growth of <i>Mycobacterium tuberculosis</i> . <i>Molecular Microbiology</i> , 2010, 78, 1591-1605.	2.5	60
49	Mutually Exclusive Genotypes for Pyrazinamide and 5-Chloropyrazinamide Resistance Reveal a Potential Resistance-Proofing Strategy. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 5323-5328.	3.2	23
50	<i>Mycobacterium tuberculosis</i> Dihydrofolate Reductase Is Not a Target Relevant to the Antitubercular Activity of Isoniazid. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3776-3782.	3.2	67
51	An Anaerobic-Type $\hat{\pm}$ -Ketoglutarate Ferredoxin Oxidoreductase Completes the Oxidative Tricarboxylic Acid Cycle of <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2009, 5, e1000662.	4.7	70
52	Triclosan Derivatives: Towards Potent Inhibitors of Drug-Sensitive and Drug-Resistant <i>Mycobacterium tuberculosis</i> . <i>ChemMedChem</i> , 2009, 4, 241-248.	3.2	130
53	Halicyclamine A, a marine spongean alkaloid as a lead for anti-tuberculosis agent. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 6732-6736.	3.0	58
54	Mycothiol biosynthesis is essential for ethionamide susceptibility in <i>Mycobacterium tuberculosis</i> . <i>Molecular Microbiology</i> , 2008, 69, 1316-1329.	2.5	155

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55	Transcriptional Regulation of Multi-Drug Tolerance and Antibiotic-Induced Responses by the Histone-Like Protein Lsr2 in <i>M. tuberculosis</i> . <i>PLoS Pathogens</i> , 2007, 3, e87.	4.7	113
56	Pyrazinoic Acid and Its n-Propyl Ester Inhibit Fatty Acid Synthase Type I in Replicating Tubercle Bacilli. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 752-754.	3.2	88
57	Isolation and Analysis of <i>Mycobacterium tuberculosis</i> Mycolic Acids. <i>Current Protocols in Microbiology</i> , 2007, 5, Unit 10A.3.	6.5	24
58	The Mechanism of Isoniazid Killing: Clarity Through the Scope of Genetics. <i>Annual Review of Microbiology</i> , 2007, 61, 35-50.	7.3	269
59	Transfer of a point mutation in <i>Mycobacterium tuberculosis</i> <i>inhA</i> resolves the target of isoniazid. <i>Nature Medicine</i> , 2006, 12, 1027-1029.	30.7	281
60	Dual Inhibition of Mycobacterial Fatty Acid Biosynthesis and Degradation by 2-Alkynoic Acids. <i>Chemistry and Biology</i> , 2006, 13, 297-307.	6.0	50
61	Altered NADH/NAD ⁺ Ratio Mediates Coresistance to Isoniazid and Ethionamide in Mycobacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 708-720.	3.2	263
62	Characterization of <i>Mycobacterium smegmatis</i> Expressing the <i>Mycobacterium tuberculosis</i> Fatty Acid Synthase I (<i>fasI</i>) Gene. <i>Journal of Bacteriology</i> , 2004, 186, 4051-4055.	2.2	68
63	Bxz1, a new generalized transducing phage for mycobacteria. <i>FEMS Microbiology Letters</i> , 2004, 241, 271-276.	1.8	55
64	Inhibition of <i>InhA</i> Activity, but Not <i>KasA</i> Activity, Induces Formation of a <i>KasA</i> -containing Complex in Mycobacteria. <i>Journal of Biological Chemistry</i> , 2003, 278, 20547-20554.	3.4	66
65	Overexpression of <i>inhA</i> , but not <i>kasA</i> , confers resistance to isoniazid and ethionamide in <i>Mycobacterium smegmatis</i> , <i>M. bovis</i> BCG and <i>M. tuberculosis</i> . <i>Molecular Microbiology</i> , 2002, 46, 453-466.	2.5	176
66	Effect of the Structure of Natural Sterols and Sphingolipids on the Formation of Ordered Sphingolipid/Sterol Domains (Rafts). <i>Journal of Biological Chemistry</i> , 2001, 276, 33540-33546.	3.4	472
67	Pyrazinamide inhibits the eukaryotic-like fatty acid synthetase I (FASI) of <i>Mycobacterium tuberculosis</i> . <i>Nature Medicine</i> , 2000, 6, 1043-1047.	30.7	232
68	Crystal Structure of the <i>Mycobacterium tuberculosis</i> Enoyl-ACP Reductase, <i>InhA</i> , in Complex with NAD ⁺ and a C16 Fatty Acyl Substrate. <i>Journal of Biological Chemistry</i> , 1999, 274, 15582-15589.	3.4	248
69	Sterol side chain length and structure affect the clearance of chylomicron-like lipid emulsions in rats and mice. <i>Journal of Lipid Research</i> , 1998, 39, 302-312.	4.2	25
70	The effect of side-chain analogues of cholesterol on the thermotropic phase behavior of 1-stearoyl-2-oleoylphosphatidylcholine bilayers: a differential scanning calorimetric study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1279, 235-242.	2.6	60
71	Lateral domain formation in cholesterol/phospholipid monolayers as affected by the sterol side chain conformation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1995, 1240, 237-247.	2.6	39
72	Enzymic Characterization of the Target for Isoniazid in <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 1995, 34, 8235-8241.	2.5	390

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73	Effect of sterol side-chain structure on sterol-phosphatidylcholine interactions in monolayers and small unilamellar vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1190, 435-443.	2.6	36
74	Interactions of cholesterol and synthetic sterols with phosphatidylcholines as deduced from infrared CH ₂ wagging progression intensities. <i>Journal of the American Chemical Society</i> , 1993, 115, 12050-12055.	13.7	35
75	Acid-Fast Positive and Acid-Fast Negative <i>Mycobacterium tuberculosis</i> : The Koch Paradox. , 0, , 517-532.		2
76	Energetics of Respiration and Oxidative Phosphorylation in <i>Mycobacteria</i> . , 0, , 389-409.		5
77	Resistance to Isoniazid and Ethionamide in <i>Mycobacterium tuberculosis</i> : Genes, Mutations, and Causalities. , 0, , 431-453.		4
78	Commonalities of <i>Mycobacterium tuberculosis</i> Transcriptomes in Response to Defined Persisting Macrophage Stresses. <i>Frontiers in Immunology</i> , 0, 13, .	4.8	7