

Hazel A Barton

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,505
citations

430874

18
h-index

454955

30
g-index

36
all docs

36
docs citations

36
times ranked

2400
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibiotic Resistance Is Prevalent in an Isolated Cave Microbiome. <i>PLoS ONE</i> , 2012, 7, e34953.	2.5	541
2	A diverse intrinsic antibiotic resistome from a cave bacterium. <i>Nature Communications</i> , 2016, 7, 13803.	12.8	148
3	Peptidomimetic Polyurethanes Inhibit Bacterial Biofilm Formation and Disrupt Surface Established Biofilms. <i>Journal of the American Chemical Society</i> , 2021, 143, 9440-9449.	13.7	91
4	Microbial diversity in a Venezuelan orthoquartzite cave is dominated by the Chloroflexi (Class) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 622	3.5	72
5	A Phenotypic and Genotypic Analysis of the Antimicrobial Potential of Cultivable <i>Streptomyces</i> Isolated from Cave Moonmilk Deposits. <i>Frontiers in Microbiology</i> , 2016, 7, 1455.	3.5	64
6	Ancestral Absence of Electron Transport Chains in Patescibacteria and DPANN. <i>Frontiers in Microbiology</i> , 2020, 11, 1848.	3.5	62
7	Comparison of the White-Nose Syndrome Agent <i>Pseudogymnoascus destructans</i> to Cave-Dwelling Relatives Suggests Reduced Saprotrophic Enzyme Activity. <i>PLoS ONE</i> , 2014, 9, e86437.	2.5	45
8	Bactericidal Peptidomimetic Polyurethanes with Remarkable Selectivity against <i>Escherichia coli</i> . <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2588-2597.	5.2	40
9	Structure-Activity Study of Antibacterial Poly(ester urethane)s with Uniform Distribution of Hydrophobic and Cationic Groups. <i>Biomacromolecules</i> , 2019, 20, 1675-1682.	5.4	40
10	Fe(III) Reducing Microorganisms from Iron Ore Caves Demonstrate Fermentative Fe(III) Reduction and Promote Cave Formation. <i>Geomicrobiology Journal</i> , 2018, 35, 311-322.	2.0	36
11	Nontoxic Cationic Coumarin Polyester Coatings Prevent <i>Pseudomonas aeruginosa</i> Biofilm Formation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6704-6711.	8.0	35
12	High Microbial Diversity Despite Extremely Low Biomass in a Deep Karst Aquifer. <i>Frontiers in Microbiology</i> , 2018, 9, 2823.	3.5	34
13	Post-fabrication QAC-functionalized thermoplastic polyurethane for contact-killing catheter applications. <i>Biomaterials</i> , 2018, 178, 339-350.	11.4	33
14	Life in the dark: far-red absorbing cyanobacteria extend photic zones deep into terrestrial caves. <i>Environmental Microbiology</i> , 2020, 22, 952-963.	3.8	33
15	Bacterial Membrane Selective Antimicrobial Peptide-Mimetic Polyurethanes: Structure-Property Correlations and Mechanisms of Action. <i>Biomacromolecules</i> , 2019, 20, 4096-4106.	5.4	31
16	The U.S. Culture Collection Network Responding to the Requirements of the Nagoya Protocol on Access and Benefit Sharing. <i>MBio</i> , 2017, 8, .	4.1	30
17	Women Are Underrepresented and Receive Differential Outcomes at ASM Journals: a Six-Year Retrospective Analysis. <i>MBio</i> , 2020, 11, .	4.1	25
18	Modification of a conventional polyurethane composition provides significant anti-biofilm activity against <i>Escherichia coli</i> . <i>Polymer Chemistry</i> , 2018, 9, 3195-3198.	3.9	22

#	ARTICLE	IF	CITATIONS
19	Whole-Genome Sequences of Five Oligotrophic Bacteria Isolated from Deep within Lechuguilla Cave, New Mexico. <i>Genome Announcements</i> , 2014, 2, .	0.8	17
20	Ammonia-Oxidizing Archaea Dominate Ammonia-Oxidizing Communities within Alkaline Cave Sediments. <i>Geomicrobiology Journal</i> , 2017, 34, 511-523.	2.0	17
21	Synergism between Rifampicin and Cationic Polyurethanes Overcomes Intrinsic Resistance of <i>Escherichia coli</i> . <i>Biomacromolecules</i> , 2021, 22, 2910-2920.	5.4	15
22	Scaling down for a broader understanding of underwater adhesives – a case for the <i>Caulobacter crescentus</i> holdfast. <i>Soft Matter</i> , 2016, 12, 9132-9141.	2.7	13
23	<i>Pseudomonas fluorescens</i> Strain R124 Encodes Three Different MIO Enzymes. <i>ChemBioChem</i> , 2018, 19, 411-418.	2.6	11
24	Modification of narrow-spectrum peptidomimetic polyurethanes with fatty acid chains confers broad-spectrum antibacterial activity. <i>Polymer International</i> , 2019, 68, 1255-1262.	3.1	11
25	White-Nose Syndrome: Human Activity in the Emergence of an Extirpating Mycosis. <i>Microbiology Spectrum</i> , 2013, 1, .	3.0	9
26	Genomic characterization of eight <i>Ensifer</i> strains isolated from pristine caves and a whole genome phylogeny of <i>Ensifer</i> (<i>Sinorhizobium</i>). <i>Journal of Genomics</i> , 2017, 5, 12-15.	0.9	7
27	Hydrologic Alteration and Enhanced Microbial Reductive Dissolution of Fe(III) (hydr)oxides Under Flow Conditions in Fe(III)-Rich Rocks: Contribution to Cave-Forming Processes. <i>Frontiers in Microbiology</i> , 2021, 12, 696534.	3.5	6
28	White-Nose Syndrome: Human Activity in the Emergence of an Extirpating Mycosis. , 0, , 167-181.		5
29	Antibiotic eluting poly(ester urea) films for control of a model cardiac implantable electronic device infection. <i>Acta Biomaterialia</i> , 2020, 111, 65-79.	8.3	4
30	Genomic characterization of bacteria from the ultra-oligotrophic Madison aquifer: insight into the archetypical LuxI/LuxR and identification of novel LuxR solos. <i>BMC Research Notes</i> , 2021, 14, 175.	1.4	3
31	Draft Genome Sequences of Five <i>Proteobacteria</i> Isolated from Lechuguilla Cave, New Mexico, USA, and Insights into Taxonomy and Quorum Sensing. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	2
32	Insight into the resistome and quorum sensing system of a divergent <i>Acinetobacter pittii</i> isolate from an untouched site of the Lechuguilla Cave. <i>Access Microbiology</i> , 2020, 2, acmi000089.	0.5	2
33	Spectroscopic Identification of Peptide Chemistry in the <i>Caulobacter crescentus</i> Holdfast. <i>Biochemistry</i> , 2020, 59, 3508-3516.	2.5	1