

# Ana ZÃ©lia Miller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2659776/publications.pdf>

Version: 2024-02-01

89  
papers

2,698  
citations

201674

27  
h-index

206112

48  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2772  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrophobicity of soils affected by fires: An assessment using molecular markers from ultra-high resolution mass spectrometry. <i>Science of the Total Environment</i> , 2022, 817, 152957.	8.0	13
2	Bacterial communities from <i>Trichuris</i> spp. A contribution to deciphering the role of parasitic nematodes as vector of pathogens. <i>Acta Tropica</i> , 2022, 226, 106277.	2.0	5
3	Application of Biology to Cultural Heritage. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 841.	2.5	0
4	Sulfidic Habitats in the Gypsum Karst System of Monte Conca (Italy) Host a Chemoautotrophically Supported Invertebrate Community. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2671.	2.6	1
5	Brazilian cave heritage under siege. <i>Science</i> , 2022, 375, 1238-1239.	12.6	32
6	Fundamental Science and Engineering Questions in Planetary Cave Exploration. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	8
7	Organic geochemistry and mineralogy suggest anthropogenic impact in speleothem chemistry from volcanic show caves of the Galapagos. <i>IScience</i> , 2022, 25, 104556.	4.1	7
8	Microbial Community Characterizing Vermiculinations from Karst Caves and Its Role in Their Formation. <i>Microbial Ecology</i> , 2021, 81, 884-896.	2.8	29
9	Prokaryotic communities from a lava tube cave in La Palma Island (Spain) are involved in the biogeochemical cycle of major elements. <i>PeerJ</i> , 2021, 9, e11386.	2.0	25
10	Revisiting and reanalysing the concept of bioreceptivity 25 years on. <i>Science of the Total Environment</i> , 2021, 770, 145314.	8.0	50
11	A roadmap for planetary caves science and exploration. <i>Nature Astronomy</i> , 2021, 5, 524-525.	10.1	19
12	A conservation roadmap for the subterranean biome. <i>Conservation Letters</i> , 2021, 14, e12834.	5.7	31
13	<i>Paracoccus onubensis</i> sp. nov., a novel alphaproteobacterium isolated from the wall of a show cave. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2021, 71, .	1.7	11
14	Dominance of <i>Arcobacter</i> in the white filaments from the thermal sulfidic spring of Fetida Cave (Apulia, southern Italy). <i>Science of the Total Environment</i> , 2021, 800, 149465.	8.0	6
15	Biochar ageing in polluted soils and trace elements immobilisation in a 2-year field experiment. <i>Environmental Pollution</i> , 2021, 290, 118025.	7.5	12
16	Molecular Characterization of Burned Organic Matter at Different Soil Depths and Its Relationship with Soil Water Repellency: A Preliminary Result. <i>Agronomy</i> , 2021, 11, 2560.	3.0	2
17	Impact of wildfires on subsurface volcanic environments: New insights into speleothem chemistry. <i>Science of the Total Environment</i> , 2020, 698, 134321.	8.0	12
18	Biochar amendment increases bacterial diversity and vegetation cover in trace element-polluted soils: A long-term field experiment. <i>Soil Biology and Biochemistry</i> , 2020, 150, 108014.	8.8	29

#	ARTICLE	IF	CITATIONS
19	Colored Microbial Coatings in Show Caves from the Galapagos Islands (Ecuador): First Microbiological Approach. <i>Coatings</i> , 2020, 10, 1134.	2.6	15
20	Impact of wildfire on granite outcrops in archaeological sites surrounded by different types of vegetation. <i>Science of the Total Environment</i> , 2020, 747, 141143.	8.0	9
21	Testing the Feasibility of Titanium Dioxide Sol-Gel Coatings on Portuguese Glazed Tiles to Prevent Biological Colonization. <i>Coatings</i> , 2020, 10, 1169.	2.6	6
22	Lichen Vitality After a Space Flight on Board the EXPOSE-R2 Facility Outside the International Space Station: Results of the Biology and Mars Experiment. <i>Astrobiology</i> , 2020, 20, 583-600.	3.0	21
23	Chemical, physical and morphological properties of biochars produced from agricultural residues: Implications for their use as soil amendment. <i>Waste Management</i> , 2020, 105, 256-267.	7.4	77
24	Light attenuation as a control for microbiogeomorphic features: Implications for coastal cave speleogenesis. <i>Geomorphology</i> , 2020, 354, 107054.	2.6	2
25	Microbial Communities in Vermiculation Deposits from an Alpine Cave. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	27
26	Editorial: Recent developments with a view to the future. <i>Conservar Patrimonio</i> , 2020, 35, 8-9.	0.4	1
27	Geomicrobiology of a seawater-influenced active sulfuric acid cave. <i>PLoS ONE</i> , 2019, 14, e0220706.	2.5	28
28	Vermiculations from karst caves: The case of Pertosa-Auletta system (Italy). <i>Catena</i> , 2019, 182, 104178.	5.0	17
29	Characterization of Microbial Communities Associated with Ceramic Raw Materials as Potential Contributors for the Improvement of Ceramic Rheological Properties. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 316.	2.0	5
30	Effect of pyrolysis conditions on the total contents of polycyclic aromatic hydrocarbons in biochars produced from organic residues: Assessment of their hazard potential. <i>Science of the Total Environment</i> , 2019, 667, 578-585.	8.0	58
31	Biodeterioration of majolica glazed tiles by the fungus <i>Devriesia imbrexigena</i> . <i>Construction and Building Materials</i> , 2019, 212, 49-56.	7.2	16
32	Editorial: New challenges for Conservar Patrimônio. <i>Conservar Patrimonio</i> , 2019, 32, 6-7.	0.4	2
33	<i>Bacillus onubensis</i> sp. nov., isolated from the air of two Andalusian caves. <i>Systematic and Applied Microbiology</i> , 2018, 41, 167-172.	2.8	26
34	Yellow coloured mats from lava tubes of La Palma (Canary Islands, Spain) are dominated by metabolically active Actinobacteria. <i>Scientific Reports</i> , 2018, 8, 1944.	3.3	46
35	Soil-borne fungi challenge the concept of long-term biochemical recalcitrance of pyrochar. <i>Scientific Reports</i> , 2018, 8, 2896.	3.3	30
36	Effects of aging under field conditions on biochar structure and composition: Implications for biochar stability in soils. <i>Science of the Total Environment</i> , 2018, 613-614, 969-976.	8.0	143

#	ARTICLE	IF	CITATIONS
37	Origin of abundant moonmilk deposits in a subsurface granitic environment. <i>Sedimentology</i> , 2018, 65, 1482-1503.	3.1	22
38	Landmark of the past in the Antequera megalithic landscape: A multi-disciplinary approach to the Matacabras rock art shelter. <i>Journal of Archaeological Science</i> , 2018, 95, 76-93.	2.4	24
39	Cellular Responses of the Lichen <i>Circinaria gyrosa</i> in Mars-Like Conditions. <i>Frontiers in Microbiology</i> , 2018, 9, 308.	3.5	19
40	Linking serpentinization, hyperalkaline mineral waters and abiotic methane production in continental peridotites: an integrated hydrogeological-bio-geochemical model from the CabeĂo de Vide CH <sub>4</sub> -rich aquifer (Portugal). <i>Applied Geochemistry</i> , 2018, 96, 287-301.	3.0	15
41	STARLIFE“An International Campaign to Study the Role of Galactic Cosmic Radiation in Astrobiological Model Systems. <i>Astrobiology</i> , 2017, 17, 101-109.	3.0	53
42	Water-rock Interaction Ascribed to Hyperalkaline Mineral Waters in the CabeĂo de Vide Serpentinized Ultramafic Intrusive Massif (Central Portugal). <i>Procedia Earth and Planetary Science</i> , 2017, 17, 646-649.	0.6	1
43	The Effect of High-Dose Ionizing Radiation on the Astrobiological Model Lichen <i>Circinaria gyrosa</i> . <i>Astrobiology</i> , 2017, 17, 145-153.	3.0	12
44	Nature and origin of the violet stains on the walls of a Roman tomb. <i>Science of the Total Environment</i> , 2017, 598, 889-899.	8.0	10
45	Wildfire effects on lipid composition and hydrophobicity of bulk soil and soil size fractions under <i>Quercus suber</i> cover (SW-Spain). <i>Environmental Research</i> , 2017, 159, 394-405.	7.5	30
46	Assessing the effects of UVA photocatalysis on soot-coated TiO <sub>2</sub> -containing mortars. <i>Science of the Total Environment</i> , 2017, 605-606, 147-157.	8.0	15
47	Biotechnological potential of Actinobacteria from Canadian and Azorean volcanic caves. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 843-857.	3.6	40
48	A multiproxy approach to evaluate biocidal treatments on biodeteriorated majolica glazed tiles. <i>Environmental Microbiology</i> , 2016, 18, 4794-4816.	3.8	33
49	Diversity of phototrophic components in biofilms from Piperno historical stoneworks. <i>Plant Biosystems</i> , 2016, 150, 720-729.	1.6	7
50	Analytical pyrolysis and stable isotope analyses reveal past environmental changes in coralloid speleothems from Easter Island (Chile). <i>Journal of Chromatography A</i> , 2016, 1461, 144-152.	3.7	19
51	Analytical pyrolysis evidences the presence of granaticins in the violet stains of a Roman tomb. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 117, 357-362.	5.5	9
52	An integrated approach for assessing the bioreceptivity of glazed tiles to phototrophic microorganisms. <i>Biofouling</i> , 2016, 32, 243-259.	2.2	13
53	Potential of natural biocides for biocontrolling phototrophic colonization on limestone. <i>International Biodeterioration and Biodegradation</i> , 2016, 107, 102-110.	3.9	27
54	Ana Heva lava tube (Easter Island, Chile): Preliminary characterization of the internal layers of coralloid-type speleothems. <i>Microscopy and Microanalysis</i> , 2015, 21, 68-69.	0.4	5

#	ARTICLE	IF	CITATIONS
55	Actinobacterial Diversity in Volcanic Caves and Associated Geomicrobiological Interactions. <i>Frontiers in Microbiology</i> , 2015, 6, 1342.	3.5	99
56	13. Lascaux Cave: An Example of Fragile Ecological Balance in Subterranean Environments. , 2015, , 279-302.		8
57	Biological colonization and biodeterioration of architectural ceramic materials: An overview. <i>Journal of Cultural Heritage</i> , 2015, 16, 759-777.	3.3	65
58	The deterioration of Circular Mausoleum, Roman Necropolis of Carmona, Spain. <i>Science of the Total Environment</i> , 2015, 518-519, 65-77.	8.0	9
59	Halophilic Microorganisms Are Responsible for the Rosy Discolouration of Saline Environments in Three Historical Buildings with Mural Paintings. <i>PLoS ONE</i> , 2014, 9, e103844.	2.5	45
60	Combining stable isotope ( $\delta^{13}C$ ) of trace gases and aerobiological data to monitor the entry and dispersion of microorganisms in caves. <i>Environmental Science and Pollution Research</i> , 2014, 21, 473-484.	5.3	28
61	Siliceous Speleothems and Associated Microbe-Mineral Interactions from Ana Heva Lava Tube in Easter Island (Chile). <i>Geomicrobiology Journal</i> , 2014, 31, 236-245.	2.0	33
62	Relating physical and chemical properties of four different biochars and their application rate to biomass production of <i>Lolium perenne</i> on a Calcic Cambisol during a pot experiment of 79days. <i>Science of the Total Environment</i> , 2014, 499, 175-184.	8.0	123
63	Recolonization of mortars by endolithic organisms on the walls of San Roque church in Campeche (Mexico): A case of tertiary bioreceptivity. <i>Construction and Building Materials</i> , 2014, 53, 348-359.	7.2	27
64	Fungal biodeterioration of stained-glass windows. <i>International Biodeterioration and Biodegradation</i> , 2014, 90, 152-160.	3.9	36
65	Is the presence of bacterial communities related to the urban contamination sources of the 16th century Paranhos spring water tunnel?. , 2014, , 95-102.		2
66	Microbe-mineral interactions at a Portuguese geo-archaeological site. , 2014, , 103-111.		1
67	Microbial communities on deteriorated artistic tiles from Pena National Palace (Sintra, Portugal). <i>International Biodeterioration and Biodegradation</i> , 2013, 84, 322-332.	3.9	42
68	Allochthonous red pigments used in burial practices at the Copper Age site of Valencina de la Concepción (Sevilla, Spain): characterisation and social dimension. <i>Journal of Archaeological Science</i> , 2013, 40, 279-290.	2.4	25
69	<i>Nocardioides albertanoniae</i> sp. nov., isolated from Roman catacombs. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 1280-1284.	1.7	15
70	Evaluation of environmental conditions of the Museo del Ejército (Toledo, Spain) by means of Sol-Gel optical sensors. , 2013, , 27-32.		1
71	Canonical Biplot as tool to detect microclimates in the inner and outer parts of Salamanca Cathedrals. , 2013, , 71-74.		1
72	Enigmatic reticulated filaments in subsurface granite. <i>Environmental Microbiology Reports</i> , 2012, 4, 596-603.	2.4	28

#	ARTICLE	IF	CITATIONS
73	Biogenic Mn oxide minerals coating in a subsurface granite environment. <i>Chemical Geology</i> , 2012, 322-323, 181-191.	3.3	52
74	Uncovering the origin of the black stains in <i>Lascaux Cave</i> in France. <i>Environmental Microbiology</i> , 2012, 14, 3220-3231.	3.8	55
75	<i>Rubrobacter bracarensis</i> sp. nov., a novel member of the genus <i>Rubrobacter</i> isolated from a biodeteriorated monument. <i>Systematic and Applied Microbiology</i> , 2012, 35, 306-309.	2.8	58
76	Bioreceptivity of building stones: A review. <i>Science of the Total Environment</i> , 2012, 426, 1-12.	8.0	208
77	Evaluación de la influencia de la rugosidad superficial sobre la colonización epilitica de calizas mediante técnicas sin contacto. <i>Materiales De Construcción</i> , 2012, 62, 411-424.	0.7	11
78	Uranyl-Evansites from Porto (Northwest Portugal) and Galicia (Northwest Spain): Structure and Assignment of Spectra Catholuminescence and Raman Bands. <i>Spectroscopy Letters</i> , 2011, 44, 511-515.	1.0	5
79	An integrated approach to assess the origins of black films on a granite monument. <i>Environmental Earth Sciences</i> , 2011, 63, 1677-1690.	2.7	21
80	Laboratory-Induced Endolithic Growth in Calcarenes: Biodeteriorating Potential Assessment. <i>Microbial Ecology</i> , 2010, 60, 55-68.	2.8	25
81	Primary bioreceptivity of limestones used in southern European monuments. <i>Geological Society Special Publication</i> , 2010, 331, 79-92.	1.3	22
82	The influence of inherent properties of building limestones on their bioreceptivity to phototrophic microorganisms. <i>Annals of Microbiology</i> , 2009, 59, 705-713.	2.6	43
83	Isolation of five <i>Rubrobacter</i> strains from biodeteriorated monuments. <i>Die Naturwissenschaften</i> , 2009, 96, 71-79.	1.6	87
84	Growth of phototrophic biofilms from limestone monuments under laboratory conditions. <i>International Biodeterioration and Biodegradation</i> , 2009, 63, 860-867.	3.9	39
85	Biodiversity of cyanobacteria and green algae on monuments in the Mediterranean Basin: an overview. <i>Microbiology (United Kingdom)</i> , 2009, 155, 3476-3490.	1.8	207
86	Reproducing stone monument photosynthetic-based colonization under laboratory conditions. <i>Science of the Total Environment</i> , 2008, 405, 278-285.	8.0	45
87	Primary bioreceptivity: A comparative study of different Portuguese lithotypes. <i>International Biodeterioration and Biodegradation</i> , 2006, 57, 136-142.	3.9	55
88	2020: heritage, the pandemic and the journal. <i>Conservar Património</i> , 0, , 8-11.	0.4	1
89	<i>Conservar Património</i> , a consolidation process. <i>Conservar Património</i> , 0, , 8-9.	0.4	0