Ana ZÃ©lia Miller

List of Publications by Year
in descending order

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89	2,698	201674	206112
papers	citations	27 h-index	48 g-index

96	96	96	2772
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioreceptivity of building stones: A review. Science of the Total Environment, 2012, 426, 1-12.	8.0	208
2	Biodiversity of cyanobacteria and green algae on monuments in the Mediterranean Basin: an overview. Microbiology (United Kingdom), 2009, 155, 3476-3490.	1.8	207
3	Effects of aging under field conditions on biochar structure and composition: Implications for biochar stability in soils. Science of the Total Environment, 2018, 613-614, 969-976.	8.0	143
4	Relating physical and chemical properties of four different biochars and their application rate to biomass production of Lolium perenne on a Calcic Cambisol during a pot experiment of 79days. Science of the Total Environment, 2014, 499, 175-184.	8.0	123
5	Actinobacterial Diversity in Volcanic Caves and Associated Geomicrobiological Interactions. Frontiers in Microbiology, 2015, 6, 1342.	3.5	99
6	Isolation of five Rubrobacter strains from biodeteriorated monuments. Die Naturwissenschaften, 2009, 96, 71-79.	1.6	87
7	Chemical, physical and morphological properties of biochars produced from agricultural residues: Implications for their use as soil amendment. Waste Management, 2020, 105, 256-267.	7.4	77
8	Biological colonization and biodeterioration of architectural ceramic materials: An overview. Journal of Cultural Heritage, 2015, 16, 759-777.	3.3	65
9	Rubrobacter bracarensis sp. nov., a novel member of the genus Rubrobacter isolated from a biodeteriorated monument. Systematic and Applied Microbiology, 2012, 35, 306-309.	2.8	58
10	Effect of pyrolysis conditions on the total contents of polycyclic aromatic hydrocarbons in biochars produced from organic residues: Assessment of their hazard potential. Science of the Total Environment, 2019, 667, 578-585.	8.0	58
11	Primary bioreceptivity: A comparative study of different Portuguese lithotypes. International Biodeterioration and Biodegradation, 2006, 57, 136-142.	3.9	55
12	Uncovering the origin of the black stains in <scp>L</scp>ascaux <scp>C</scp>ave in <scp>F</scp>rance. Environmental Microbiology, 2012, 14, 3220-3231.	3.8	55
13	STARLIFEâ€”An International Campaign to Study the Role of Galactic Cosmic Radiation in Astrobiological Model Systems. Astrobiology, 2017, 17, 101-109.	3.0	53
14	Biogenic Mn oxide minerals coating in a subsurface granite environment. Chemical Geology, 2012, 322-323, 181-191.	3.3	52
15	Revisiting and reanalysing the concept of bioreceptivity 25Âyears on. Science of the Total Environment, 2021, 770, 145314.	8.0	50
16	Yellow coloured mats from lava tubes of La Palma (Canary Islands, Spain) are dominated by metabolically active Actinobacteria. Scientific Reports, 2018, 8, 1944.	3.3	46
17	Reproducing stone monument photosynthetic-based colonization under laboratory conditions. Science of the Total Environment, 2008, 405, 278-285.	8.0	45
18	Halophilic Microorganisms Are Responsible for the Rosy Discolouration of Saline Environments in Three Historical Buildings with Mural Paintings. PLoS ONE, 2014, 9, e103844.	2.5	45

#	ARTICLE	IF	CITATIONS
19	The influence of inherent properties of building limestones on their bioreceptivity to phototrophic microorganisms. Annals of Microbiology, 2009, 59, 705-713.	2.6	43
20	Microbial communities on deteriorated artistic tiles from Pena National Palace (Sintra, Portugal). International Biodeterioration and Biodegradation, 2013, 84, 322-332.	3.9	42
21	Biotechnological potential of Actinobacteria from Canadian and Azorean volcanic caves. Applied Microbiology and Biotechnology, 2017, 101, 843-857.	3.6	40
22	Growth of phototrophic biofilms from limestone monuments under laboratory conditions. International Biodeterioration and Biodegradation, 2009, 63, 860-867.	3.9	39
23	Fungal biodeterioration of stained-glass windows. International Biodeterioration and Biodegradation, 2014, 90, 152-160.	3.9	36
24	Siliceous Speleothems and Associated Microbe-Mineral Interactions from Ana Heva Lava Tube in Easter Island (Chile). Geomicrobiology Journal, 2014, 31, 236-245.	2.0	33
25	A multiproxy approach to evaluate biocidal treatments on biodeteriorated majolica glazed tiles. Environmental Microbiology, 2016, 18, 4794-4816.	3.8	33
26	Brazilian cave heritage under siege. Science, 2022, 375, 1238-1239.	12.6	32
27	A conservation roadmap for the subterranean biome. Conservation Letters, 2021, 14, e12834.	5.7	31
28	Wildfire effects on lipid composition and hydrophobicity of bulk soil and soil size fractions under Quercus suber cover (SW-Spain). Environmental Research, 2017, 159, 394-405.	7.5	30
29	Soil-borne fungi challenge the concept of long-term biochemical recalcitrance of pyrochar. Scientific Reports, 2018, 8, 2896.	3.3	30
30	Biochar amendment increases bacterial diversity and vegetation cover in trace element-polluted soils: A long-term field experiment. Soil Biology and Biochemistry, 2020, 150, 108014.	8.8	29
31	Microbial Community Characterizing Vermiculations from Karst Caves and Its Role in Their Formation. Microbial Ecology, 2021, 81, 884-896.	2.8	29
32	Enigmatic reticulated filaments in subsurface granite. Environmental Microbiology Reports, 2012, 4, 596-603.	2.4	28
33	Combining stable isotope (Î´13C) of trace gases and aerobiological data to monitor the entry and dispersion of microorganisms in caves. Environmental Science and Pollution Research, 2014, 21, 473-484.	5.3	28
34	Geomicrobiology of a seawater-influenced active sulfuric acid cave. PLoS ONE, 2019, 14, e0220706.	2.5	28
35	Recolonization of mortars by endolithic organisms on the walls of San Roque church in Campeche (Mexico): A case of tertiary bioreceptivity. Construction and Building Materials, 2014, 53, 348-359.	7.2	27
36	Potential of natural biocides for biocontrolling phototrophic colonization on limestone. International Biodeterioration and Biodegradation, 2016, 107, 102-110.	3.9	27

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37	Microbial Communities in Vermiculation Deposits from an Alpine Cave. Frontiers in Earth Science, 2020, 8, .	1.8	27
38	Bacillus onubensis sp. nov., isolated from the air of two Andalusian caves. Systematic and Applied Microbiology, 2018, 41, 167-172.	2.8	26
39	Laboratory-Induced Endolithic Growth in Calcarenites: Biodeteriorating Potential Assessment. Microbial Ecology, 2010, 60, 55-68.	2.8	25
40	Allochthonous red pigments used in burial practices at the Copper Age site of Valencina de la ConcepciÃ³n (Sevilla, Spain): characterisation and social dimension. Journal of Archaeological Science, 2013, 40, 279-290.	2.4	25
41	Prokaryotic communities from a lava tube cave in La Palma Island (Spain) are involved in the biogeochemical cycle of major elements. PeerJ, 2021, 9, e11386.	2.0	25
42	Landmark of the past in the Antequera megalithic landscape: A multi-disciplinary approach to the Matacabras rock art shelter. Journal of Archaeological Science, 2018, 95, 76-93.	2.4	24
43	Primary bioreceptivity of limestones used in southern European monuments. Geological Society Special Publication, 2010, 331, 79-92.	1.3	22
44	Origin of abundant moonmilk deposits in a subsurface granitic environment. Sedimentology, 2018, 65, 1482-1503.	3.1	22
45	An integrated approach to assess the origins of black films on a granite monument. Environmental Earth Sciences, 2011, 63, 1677-1690.	2.7	21
46	Lichen Vitality After a Space Flight on Board the EXPOSE-R2 Facility Outside the International Space Station: Results of the Biology and Mars Experiment. Astrobiology, 2020, 20, 583-600.	3.0	21
47	Analytical pyrolysis and stable isotope analyses reveal past environmental changes in coralloid speleothems from Easter Island (Chile). Journal of Chromatography A, 2016, 1461, 144-152.	3.7	19
48	Cellular Responses of the Lichen Circinaria gyrosa in Mars-Like Conditions. Frontiers in Microbiology, 2018, 9, 308.	3.5	19
49	A roadmap for planetary caves science and exploration. Nature Astronomy, 2021, 5, 524-525.	10.1	19
50	Vermiculations from karst caves: The case of Pertosa-Auletta system (Italy). Catena, 2019, 182, 104178.	5.0	17
51	Biodeterioration of majolica glazed tiles by the fungus Devriesia imbrexigena. Construction and Building Materials, 2019, 212, 49-56.	7.2	16
52	Nocardioides albertanoniae sp. nov., isolated from Roman catacombs. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 1280-1284.	1.7	15
53	Assessing the effects of UVA photocatalysis on soot-coated TiO2-containing mortars. Science of the Total Environment, 2017, 605-606, 147-157.	8.0	15
54	Linking serpentinization, hyperalkaline mineral waters and abiotic methane production in continental peridotites: an integrated hydrogeological-bio-geochemical model from the CabeÃ§o de Vide CH4-rich aquifer (Portugal). Applied Geochemistry, 2018, 96, 287-301.	3.0	15

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55	Colored Microbial Coatings in Show Caves from the Galapagos Islands (Ecuador): First Microbiological Approach. Coatings, 2020, 10, 1134.	2.6	15
56	An integrated approach for assessing the bioreceptivity of glazed tiles to phototrophic microorganisms. Biofouling, 2016, 32, 243-259.	2.2	13
57	Hydrophobicity of soils affected by fires: An assessment using molecular markers from ultra-high resolution mass spectrometry. Science of the Total Environment, 2022, 817, 152957.	8.0	13
58	The Effect of High-Dose Ionizing Radiation on the Astrobiological Model LichenCircinaria gyrosa. Astrobiology, 2017, 17, 145-153.	3.0	12
59	Impact of wildfires on subsurface volcanic environments: New insights into speleothem chemistry. Science of the Total Environment, 2020, 698, 134321.	8.0	12
60	Biochar ageing in polluted soils and trace elements immobilisation in a 2-year field experiment. Environmental Pollution, 2021, 290, 118025.	7.5	12
61	Paracoccus onubensis sp. nov., a novel alphaproteobacterium isolated from the wall of a show cave. International Journal of Systematic and Evolutionary Microbiology, 2021, 71, .	1.7	11
62	EvaluaciÃ³n de la influencia de la rugosidad superficial sobre la colonizaciÃ³n epilÃtica de calizas mediante tÃ©cnicas sin contacto. Materiales De Construccion, 2012, 62, 411-424.	0.7	11
63	Nature and origin of the violet stains on the walls of a Roman tomb. Science of the Total Environment, 2017, 598, 889-899.	8.0	10
64	The deterioration of Circular Mausoleum, Roman Necropolis of Carmona, Spain. Science of the Total Environment, 2015, 518-519, 65-77.	8.0	9
65	Analytical pyrolysis evidences the presence of granaticins in the violet stains of a Roman tomb. Journal of Analytical and Applied Pyrolysis, 2016, 117, 357-362.	5.5	9
66	Impact of wildfire on granite outcrops in archaeological sites surrounded by different types of vegetation. Science of the Total Environment, 2020, 747, 141143.	8.0	9
67	13. Lascaux Cave: An Example of Fragile Ecological Balance in Subterranean Environments. , 2015, , 279-302.		8
68	Fundamental Science and Engineering Questions in Planetary Cave Exploration. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	8
69	Diversity of phototrophic components in biofilms from Piperno historical stoneworks. Plant Biosystems, 2016, 150, 720-729.	1.6	7
70	Organic geochemistry and mineralogy suggest anthropogenic impact in speleothem chemistry from volcanic show caves of the Galapagos. IScience, 2022, 25, 104556.	4.1	7
71	Testing the Feasibility of Titanium Dioxide Sol-Gel Coatings on Portuguese Glazed Tiles to Prevent Biological Colonization. Coatings, 2020, 10, 1169.	2.6	6
72	Dominance of Arcobacter in the white filaments from the thermal sulfidic spring of Fetida Cave (Apulia, southern Italy). Science of the Total Environment, 2021, 800, 149465.	8.0	6

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73	Uranyl-Evansites from Porto (Northwest Portugal) and Galicia (Northwest Spain): Structure and Assignment of Spectra Catholuminescence and Raman Bands. Spectroscopy Letters, 2011, 44, 511-515.	1.0	5
74	Ana Heva lava tube (Easter Island, Chile): Preliminary characterization of the internal layers of coralloid-type speleothems. Microscopy and Microanalysis, 2015, 21, 68-69.	0.4	5
75	Characterization of Microbial Communities Associated with Ceramic Raw Materials as Potential Contributors for the Improvement of Ceramic Rheological Properties. Minerals (Basel, Switzerland), 2019, 9, 316.	2.0	5
76	Bacterial communities from Trichuris spp. A contribution to deciphering the role of parasitic nematodes as vector of pathogens. Acta Tropica, 2022, 226, 106277.	2.0	5
77	Is the presence of bacterial communities related to the urban contamination sources of the 16th century Paranhos spring water tunnel?. , 2014, , 95-102.		2
78	Light attenuation as a control for microbiogeomorphic features: Implications for coastal cave speleogenesis. Geomorphology, 2020, 354, 107054.	2.6	2
79	Editorial: New challenges for Conservar PatrimÃ³nio. Conservar Patrimonio, 2019, 32, 6-7.	0.4	2
80	Molecular Characterization of Burned Organic Matter at Different Soil Depths and Its Relationship with Soil Water Repellency: A Preliminary Result. Agronomy, 2021, 11, 2560.	3.0	2
81	Water-rock Interaction Ascribed to Hyperalkaline Mineral Waters in the CabeÃ§o de Vide Serpentinized Ultramafic Intrusive Massif (Central Portugal). Procedia Earth and Planetary Science, 2017, 17, 646-649.	0.6	1
82	2020: heritage, the pandemic and the journal. Conservar Patrimonio, 0, , 8-11.	0.4	1
83	Evaluation of environmental conditions of the Museo del EjÃ©rcito (Toledo, Spain) by means of Sol-Gel optical sensors. , 2013, , 27-32.		1
84	Microbe-mineral interactions at a Portuguese geo-archaeological site. , 2014, , 103-111.		1
85	Canonical Biplot as tool to detect microclimates in the inner and outer parts of Salamanca Cathedrals. , 2013, , 71-74.		1
86	Editorial: Recent developments with a view to the future. Conservar Patrimonio, 2020, 35, 8-9.	0.4	1
87	Sulfidic Habitats in the Gypsum Karst System of Monte Conca (Italy) Host a Chemoautotrophically Supported Invertebrate Community. International Journal of Environmental Research and Public Health, 2022, 19, 2671.	2.6	1
88	Conservar PatrimÃ³nio, a consolidation process. Conservar Patrimonio, 0, , 8-9.	0.4	0
89	Application of Biology to Cultural Heritage. Applied Sciences (Switzerland), 2022, 12, 841.	2.5	0