Guadalupe Pinar

List of Publications by Year
in descending order

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66 papers	3,312 citations	109137 35 h-index	149479 56 g-index
70 all docs	70 docs citations	70 times ranked	2643 citing authors

#	Article	IF	Citations
1	Microbial deterioration of cultural heritage and works of art â€" tilting at windmills?. Applied Microbiology and Biotechnology, 2013, 97, 9637-9646.	1.7	356
2	An advanced molecular strategy to identify bacterial communities on art objects. Journal of Microbiological Methods, 2001, 45, 77-87.	0.7	135
3	Altamira cave Paleolithic paintings harbor partly unknown bacterial communities. FEMS Microbiology Letters, 2002, 211, 7-11.	0.7	131
4	Phylogenetic diversity of bacteria associated with Paleolithic paintings and surrounding rock walls in two Spanish caves (LlonÃƒÂn and La Garma). FEMS Microbiology Ecology, 2004, 47, 235-247.	1.3	121
5	Consolidation of degraded ornamental porous limestone stone by calcium carbonate precipitation induced by the microbiota inhabiting the stone. Chemosphere, 2007, 68, 1929-1936.	4.2	117
6	Comparative analyses of the bacterial diversity on two different biodeteriorated wall paintings by DGGE and 16S rDNA sequence analysis. International Biodeterioration and Biodegradation, 2000, 46, 229-239.	1.9	114
7	Application of molecular techniques for identification of fungal communities colonising paper material. International Biodeterioration and Biodegradation, 2006, 58, 133-141.	1.9	106
8	Analysis of fungal communities on historical church window glass by denaturing gradient gel electrophoresis and phylogenetic 18S rDNA sequence analysis. Journal of Microbiological Methods, 2001, 47, 345-354.	0.7	94
9	Molecular and Microscopical Investigation of the Microflora Inhabiting a Deteriorated Italian Manuscript Dated from the Thirteenth Century. Microbial Ecology, 2010, 60, 69-80.	1.4	94
10	Consolidation of quarry calcarenite by calcium carbonate precipitation induced by bacteria activated among the microbiota inhabiting the stone. International Biodeterioration and Biodegradation, 2008, 62, 352-363.	1.9	93
11	Phylogenetic 16S rRNA analysis reveals the presence of complex and partly unknown bacterial communities in Tito Bustillo cave, Spain, and on its Palaeolithic paintings. Environmental Microbiology, 2002, 4, 392-400.	1.8	89
12	Microbial survey of the mummies from the Capuchin Catacombs of Palermo, Italy: biodeterioration risk and contamination of the indoor air. FEMS Microbiology Ecology, 2013, 86, 341-356.	1.3	81
13	Influence of compost and biochar on microbial communities and the sorption/degradation of PAHs and NSO-substituted PAHs in contaminated soils. Journal of Hazardous Materials, 2018, 345, 107-113.	6.5	71
14	Limestone biodeterioration: A review on the Portuguese cultural heritage scenario. Journal of Cultural Heritage, 2019, 36, 275-285.	1.5	70
15	Unmasking the measlesâ€like parchment discoloration: molecular and microanalytical approach. Environmental Microbiology, 2015, 17, 427-443.	1.8	69
16	Monitoring the colonization of monuments by bacteria: cultivation versus molecular methods. Environmental Microbiology, 2003, 5, 72-74.	1.8	68
17	Rubrobacter -related bacteria associated with rosy discolouration of masonry and lime wall paintings. Archives of Microbiology, 2001, 176, 347-354.	1.0	65
18	Biodeterioration and restoration of a 16th-century book using a combination of conventional and molecular techniques: A case study. International Biodeterioration and Biodegradation, 2009, 63, 161-168.	1.9	65

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19	Future directions and challenges in biodeterioration research on historic materials and cultural properties. International Biodeterioration and Biodegradation, 2018, 129, 10-12.	1.9	63
20	Contribution of the Microbial Communities Detected on an Oil Painting on Canvas to Its Biodeterioration. PLoS ONE, 2013, 8, e80198.	1.1	62
21	First evaluation of the microbiome of built cultural heritage by using the Ion Torrent next generation sequencing platform. International Biodeterioration and Biodegradation, 2018, 131, 11-18.	1.9	61
22	Detection of Indigenous Halobacillus Populations in Damaged Ancient Wall Paintings and Building Materials: Molecular Monitoring and Cultivation. Applied and Environmental Microbiology, 2001, 67, 4891-4895.	1.4	57
23	The micro-biota of a sub-surface monument the medieval chapel of St. Virgil (Vienna, Austria). International Biodeterioration and Biodegradation, 2009, 63, 851-859.	1.9	56
24	Microscopic, chemical, and molecular-biological investigation of the decayed medieval stained window glasses of two Catalonian churches. International Biodeterioration and Biodegradation, 2013, 84, 388-400.	1.9	56
25	Molecular monitoring of the microbial dynamics occurring on historical limestone buildings during and after the in situ application of different bio-consolidation treatments. Science of the Total Environment, 2011, 409, 5337-5352.	3.9	53
26	Microbial communities adhering to the obverse and reverse sides of an oil painting on canvas: identification and evaluation of their biodegradative potential. Aerobiologia, 2013, 29, 301-314.	0.7	52
27	Monitoring the effects of different conservation treatments on paper-infecting fungi. International Biodeterioration and Biodegradation, 2013, 84, 333-341.	1.9	50
28	Archaeal communities in two disparate deteriorated ancient wall paintings: detection, identification and temporal monitoring by denaturing gradient gel electrophoresis. FEMS Microbiology Ecology, 2001, 37, 45-54.	1.3	49
29	Amid the possible causes of a very famous foxing: molecular and microscopic insight into <scp>L</scp>eonardo da <scp>V</scp>inci's selfâ€portrait. Environmental Microbiology Reports, 2015, 7, 849-859.	1.0	46
30	Halophilic Microorganisms Are Responsible for the Rosy Discolouration of Saline Environments in Three Historical Buildings with Mural Paintings. PLoS ONE, 2014, 9, e103844.	1.1	45
31	Culture free DGGE and cloning based monitoring of changes in bacterial communities of salad due to processing. Food and Chemical Toxicology, 2005, 43, 1595-1605.	1.8	42
32	Microbes on building materials â€" Evaluation of DNA extraction protocols as common basis for molecular analysis. Science of the Total Environment, 2012, 439, 44-53.	3.9	40
33	Flow cytometry as a tool to assess the effects of gamma radiation on the viability, growth and metabolic activity of fungal spores. International Biodeterioration and Biodegradation, 2013, 84, 250-257.	1.9	40
34	Halophilic bacteria are colonizing the exhibition areas of the Capuchin Catacombs in Palermo, Italy. Extremophiles, 2014, 18, 677-691.	0.9	40
35	Rapid diagnosis of biological colonization in cultural artefacts using the MinION nanopore sequencing technology. International Biodeterioration and Biodegradation, 2020, 148, 104908.	1.9	37
36	A Combined Approach to Assess the Microbial Contamination of the Archimedes Palimpsest. Microbial Ecology, 2015, 69, 118-134.	1.4	36

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37	Cultivation and molecular monitoring of halophilic microorganisms inhabiting an extreme environment presented by a salt-attacked monument. International Journal of Astrobiology, 2010, 9, 59-72.	0.9	34
38	Removal of high concentrations of nitrate from industrial wastewaters by bacteria. Applied and Environmental Microbiology, 1997, 63, 2071-2073.	1.4	33
39	Biodeterioration Risk Threatens the 3100 Year Old Staircase of Hallstatt (Austria): Possible Involvement of Halophilic Microorganisms. PLoS ONE, 2016, 11, e0148279.	1.1	32
40	Bacterial Community Dynamics During the Application of a Myxococcus xanthus-Inoculated Culture Medium Used for Consolidation of Ornamental Limestone. Microbial Ecology, 2010, 60, 15-28.	1.4	30
41	Molecular characterisation of Halobacillus strains isolated from different medieval wall paintings and building materials in Austria. International Biodeterioration and Biodegradation, 2006, 58, 124-132.	1.9	28
42	Metabolism of Nitrate Esters by a Consortium of Two Bacteria. Nature Biotechnology, 1996, 14, 320-322.	9.4	27
43	Quantification of fungal abundance on cultural heritage using real time PCR targeting the ÃŽÂ²-actin gene. Frontiers in Microbiology, 2014, 5, 262.	1.5	27
44	Aspergillus atacamensis and A. salisburgensis: two new halophilic species from hypersaline/arid habitats with a phialosimplex-like morphology. Extremophiles, 2017, 21, 755-773.	0.9	27
45	The Microbiome of Leonardo da Vinciâ€™s Drawings: A Bio-Archive of Their History. Frontiers in Microbiology, 2020, 11, 593401.	1.5	24
46	[29] Identification of archaea in objects of art by denaturing gradient gel electrophoresis analysis and shotgun cloning. Methods in Enzymology, 2001, 336, 356-366.	0.4	18
47	Draft Genome Sequences of the Black Rock Fungus Knufia petricola and Its Spontaneous Nonmelanized Mutant. Genome Announcements, 2017, 5, .	0.8	18
48	Back to the Salt Mines: Genome and Transcriptome Comparisons of the Halophilic Fungus Aspergillus salisburgensis and Its Halotolerant Relative Aspergillus sclerotialis. Genes, 2019, 10, 381.	1.0	17
49	A time travel story: metagenomic analyses decipher the unknown geographical shift and the storage history of possibly smuggled antique marble statues. Annals of Microbiology, 2019, 69, 1001-1021.	1.1	17
50	Natural sciences at the service of art and cultural heritage: an interdisciplinary area in development and important challenges. Microbial Biotechnology, 2021, 14, 806-809.	2.0	17
51	Molecular Tools for Monitoring the Ecological Sustainability of a Stone Bio-Consolidation Treatment at the Royal Chapel, Granada. PLoS ONE, 2015, 10, e0132465.	1.1	16
52	Big Sound and Extreme Fungiâ€"Xerophilic, Halotolerant Aspergilli and Penicillia with Low Optimal Temperature as Invaders of Historic Pipe Organs. Life, 2018, 8, 22.	1.1	15
53	Decoding the biological information contained in two ancient Slavonic parchment codices: an added historical value. Environmental Microbiology, 2020, 22, 3218-3233.	1.8	15
54	Metabolic profiling ofMinimedusa polyspora(Hotson) Weresub & P.M. LeClair, a cellulolytic fungus isolated from Mediterranean maquis, in southern Italy. Plant Biosystems, 2014, 148, 333-341.	0.8	13

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55	Influence of Carbon Source on Nitrate Removal by Nitrate-Tolerant Klebsiella oxytoca CECT 4460 in Batch and Chemostat Cultures. Applied and Environmental Microbiology, 1998, 64, 2970-2976.	1.4	12
56	Bio-susceptibility of Materials and Thermal Insulation Systems used for Historical Buildings. Energy Procedia, 2013, 40, 499-506.	1.8	11
57	Insect pests and Integrated Pest Management in the Capuchin Catacombs of Palermo, Italy. International Biodeterioration and Biodegradation, 2018, 131, 107-114.	1.9	11
58	Contamination of wounds with fecal bacteria in immuno-suppressed mice. Scientific Reports, 2020, 10, 11494.	1.6	8
59	A strain of Arthrobacter that tolerates high concentrations of nitrate. Biodegradation, 1997, 8, 393-399.	1.5	7
60	The Kiev Folia: An interdisciplinary approach to unravelling the past of an ancient Slavonic manuscript. International Biodeterioration and Biodegradation, 2022, 167, 105342.	1.9	7
61	A Multi-Analytical Approach to Infer Mineralâ€“Microbial Interactions Applied to Petroglyph Sites in the Negev Desert of Israel. Applied Sciences (Switzerland), 2022, 12, 6936.	1.3	6
62	Removal of nitrate from industrial wastewaters in a pilot plant by nitrate-tolerantKlebsiella oxytoca CECT 4460 andArthrobacter globiformis CECT 4500. , 1998, 58, 510-514.		5
63	Recombinant Klebsiella oxytoca Strains with Improved Efficiency in Removal of High Nitrate Loads. Applied and Environmental Microbiology, 1998, 64, 5016-5019.	1.4	5
64	Molecular-Based Techniques for the Study of Microbial Communities in Artworks. , 2021, , 59-77.		1
65	Molecular Approaches for the Assessment of Microbial Deterioration of Objects of Art. , 2000, , 39-47.		1
66	Schimmelpilze in Museen, Sammlungen und Depots. , 2015, , 187-198.		0