

Francesca Cappitelli

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

2,723
citations

32
h-index

47
g-index

109
ext. papers

3,149
ext. citations

4.8
avg. IF

5.4
L-index

#	Paper	IF	Citations
105	Biofilm Formation in Food Processing Environments is Still Poorly Understood and Controlled. <i>Food Engineering Reviews</i> , 2014 , 6, 29-42	6.5	108
104	Mini-review: Biofilm responses to oxidative stress. <i>Biofouling</i> , 2016 , 32, 167-78	3.3	103
103	Biotechnology applied to cultural heritage: biorestitution of frescoes using viable bacterial cells and enzymes. <i>Journal of Applied Microbiology</i> , 2005 , 98, 73-83	4.7	100
102	Bacterial and fungal deterioration of the Milan Cathedral marble treated with protective synthetic resins. <i>Science of the Total Environment</i> , 2007 , 385, 172-81	10.2	91
101	Microorganisms attack synthetic polymers in items representing our cultural heritage. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 564-9	4.8	88
100	Mineral-microbe interactions: biotechnological potential of bioweathering. <i>Journal of Biotechnology</i> , 2012 , 157, 473-81	3.7	83
99	Advantages of using microbial technology over traditional chemical technology in removal of black crusts from stone surfaces of historical monuments. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5671-5	4.8	78
98	Current methods of graffiti removal: A review. <i>Construction and Building Materials</i> , 2014 , 71, 363-374	6.7	76
97	Improved methodology for bioremoval of black crusts on historical stone artworks by use of sulfate-reducing bacteria. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 3733-7	4.8	73
96	Feasibility of removing surface deposits on stone using biological and chemical remediation methods. <i>Microbial Ecology</i> , 2010 , 60, 1-14	4.4	68
95	From papyrus to compact disc: the microbial deterioration of documentary heritage. <i>Critical Reviews in Microbiology</i> , 2005 , 31, 1-10	7.8	56
94	The bioremoval of nitrate and sulfate alterations on artistic stonework: The case-study of Matera Cathedral after six years from the treatment. <i>International Biodeterioration and Biodegradation</i> , 2011 , 65, 1004-1011	4.8	51
93	Investigation of the effects of plasma treatments on biodeteriorated ancient paper. <i>Applied Surface Science</i> , 2005 , 252, 1159-1166	6.7	49
92	An initial assessment of thermally assisted hydrolysis and methylation-gas chromatography/mass spectrometry for the identification of oils from dried paint films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2002 , 63, 339-348	6	42
91	Biodeterioration of modern materials in contemporary collections: can biotechnology help?. <i>Trends in Biotechnology</i> , 2006 , 24, 350-4	15.1	41
90	Color measurements as a reliable method for estimating chlorophyll degradation to phaeopigments. <i>Biodegradation</i> , 2011 , 22, 763-71	4.1	40
89	Hindering biofilm formation with zosteric acid. <i>Biofouling</i> , 2010 , 26, 739-52	3.3	40

88	Chemical, physical and Microbiological Measurements for Indoor Air Quality Assessment at the Ca' Granda Historical Archive, Milan (Italy). <i>Water, Air, and Soil Pollution</i> , 2009 , 201, 109-120	2.6	40
87	Degradation of nitrocellulose-based paint by <i>Desulfovibrio desulfuricans</i> ATCC 13541. <i>Biodegradation</i> , 2012 , 23, 705-16	4.1	39
86	Synthetic consolidants attacked by melanin-producing fungi: case study of the biodeterioration of Milan (Italy) cathedral marble treated with acrylics. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 271-7	4.8	38
85	Effects of sublethal doses of silver nanoparticles on <i>Bacillus subtilis</i> planktonic and sessile cells. <i>Journal of Applied Microbiology</i> , 2015 , 118, 1103-15	4.7	37
84	Fungal Biofilms: Targets for the Development of Novel Strategies in Plant Disease Management. <i>Frontiers in Microbiology</i> , 2017 , 8, 654	5.7	36
83	Comparing the bioremoval of black crusts on colored artistic lithotypes of the Cathedral of Florence with chemical and laser treatment. <i>International Biodeterioration and Biodegradation</i> , 2011 , 65, 832-839	4.8	36
82	Efficacy of zosteric acid sodium salt on the yeast biofilm model <i>Candida albicans</i> . <i>Microbial Ecology</i> , 2011 , 62, 584-98	4.4	36
81	The biodeterioration of synthetic resins used in conservation. <i>Macromolecular Bioscience</i> , 2004 , 4, 399-406	4.6	36
80	Protective features, durability and biodegradation study of acrylic and methacrylic fluorinated polymer coatings for marble protection. <i>Progress in Organic Coatings</i> , 2018 , 114, 47-57	4.8	35
79	Development of a Laboratory Model of a Phototroph-Heterotroph Mixed-Species Biofilm at the Stone/Air Interface. <i>Frontiers in Microbiology</i> , 2015 , 6, 1251	5.7	34
78	Detection and elimination of cyanobacteria from frescoes: the case of the St. Brizio Chapel (Orvieto Cathedral, Italy). <i>Microbial Ecology</i> , 2009 , 57, 633-9	4.4	34
77	Effects of chronic sub-lethal oxidative stress on biofilm formation by <i>Azotobacter vinelandii</i> . <i>Biofouling</i> , 2012 , 28, 823-33	3.3	33
76	Investigation of fungal deterioration of synthetic paint binders using vibrational spectroscopic techniques. <i>Macromolecular Bioscience</i> , 2005 , 5, 49-57	5.5	33
75	Effects of photoactivated titanium dioxide nanopowders and coating on planktonic and biofilm growth of <i>Pseudomonas aeruginosa</i> . <i>Photochemistry and Photobiology</i> , 2011 , 87, 1387-94	3.6	32
74	Microbial deterioration of artistic tiles from the facade of the Grande Albergo Ausonia & Hungaria (Venice, Italy). <i>Microbial Ecology</i> , 2011 , 62, 287-98	4.4	32
73	Scripta manent? Assessing microbial risk to paper heritage. <i>Trends in Microbiology</i> , 2010 , 18, 538-42	12.4	32
72	THM-GCMS and FTIR for the study of binding media in Yellow Islands by Jackson Pollock and Break Point by Fiona Banner. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004 , 71, 405-415	6	32
71	Unravelling the Structural and Molecular Basis Responsible for the Anti-Biofilm Activity of Zosteric Acid. <i>PLoS ONE</i> , 2015 , 10, e0131519	3.7	31

70	Plant-derived bioactive compounds at sub-lethal concentrations: towards smart biocide-free antibiofilm strategies. <i>Phytochemistry Reviews</i> , 2013 , 12, 245-254	7.7	31
69	Importance of subaerial biofilms and airborne microflora in the deterioration of stonework: a molecular study. <i>Biofouling</i> , 2012 , 28, 1093-106	3.3	30
68	Molecular studies of microbial community structure on stained pages of Leonardo da Vinci's Atlantic Codex. <i>Microbial Ecology</i> , 2011 , 61, 214-22	4.4	29
67	Zinc oxide nanoparticles hinder fungal biofilm development in an ancient Egyptian tomb. <i>International Biodeterioration and Biodegradation</i> , 2017 , 122, 92-99	4.8	27
66	Subaerial Biofilms on Outdoor Stone Monuments: Changing the Perspective Toward an Ecological Framework. <i>BioScience</i> , 2016 , 66, 285-294	5.7	27
65	Testing Anti-Biofilm Polymeric Surfaces: Where to Start?. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	27
64	Successful combination of chemical and biological treatments for the cleaning of stone artworks. <i>International Biodeterioration and Biodegradation</i> , 2013 , 85, 294-304	4.8	27
63	Lead-resistant microorganisms from red stains of marble of the Certosa of Pavia, Italy and use of nucleic acid-based techniques for their detection. <i>International Biodeterioration and Biodegradation</i> , 1997 , 40, 171-182	4.8	27
62	The Control of Cultural Heritage Microbial Deterioration. <i>Microorganisms</i> , 2020 , 8,	4.9	26
61	Biofilm colonization of metamorphic lithotypes of a renaissance cathedral exposed to urban atmosphere. <i>Science of the Total Environment</i> , 2018 , 639, 1480-1490	10.2	26
60	A simple and reliable methodology to detect egg white in art samples. <i>Journal of Biosciences</i> , 2013 , 38, 397-408	2.3	25
59	Altered expression level of Escherichia coli proteins in response to treatment with the antifouling agent zosteric acid sodium salt. <i>Environmental Microbiology</i> , 2012 , 14, 1753-61	5.2	24
58	Cyanobacteria cause black staining of the National Museum of the American Indian Building, Washington, DC, USA. <i>Biofouling</i> , 2012 , 28, 257-66	3.3	24
57	THM-GCMS and FTIR for the investigation of paints in Picasso's Still Life, Weeping Woman and Nude Woman in a Red Armchair from the Tate Collection, London. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006 , 75, 200-204	6	24
56	Impacts of dietary silver nanoparticles and probiotic administration on the microbiota of an in-vitro gut model. <i>Environmental Pollution</i> , 2019 , 245, 754-763	9.3	24
55	The response of Escherichia coli biofilm to salicylic acid. <i>Biofouling</i> , 2017 , 33, 235-251	3.3	23
54	A methodology to select bacteria able to remove synthetic polymers. <i>Polymer Degradation and Stability</i> , 2014 , 107, 321-327	4.7	20
53	Fluorescent-BOX-PCR for resolving bacterial genetic diversity, endemism and biogeography. <i>BMC Microbiology</i> , 2008 , 8, 220	4.5	20

52	Diversity of archaeal and bacterial communities on exfoliated sandstone from Portchester Castle (UK). <i>International Biodeterioration and Biodegradation</i> , 2016 , 109, 78-87	4.8	19
51	Assessing the microbiological risk to stored sixteenth century parchment manuscripts: a holistic approach based on molecular and environmental studies. <i>Biofouling</i> , 2014 , 30, 299-311	3.3	19
50	The effect of copper on the structure of the ammonia-oxidizing microbial community in an activated sludge wastewater treatment plant. <i>Microbial Ecology</i> , 2009 , 57, 215-20	4.4	19
49	Sub-lethal activity of small molecules from natural sources and their synthetic derivatives against biofilm forming nosocomial pathogens. <i>Current Topics in Medicinal Chemistry</i> , 2013 , 13, 3184-204	3	19
48	Rapid evaluation of three biocide treatments against the cyanobacterium Nostoc sp. PCC 9104 by color changes. <i>Annals of Microbiology</i> , 2015 , 65, 1153-1158	3.2	18
47	Recent progress in bio-inspired biofilm-resistant polymeric surfaces. <i>Critical Reviews in Microbiology</i> , 2018 , 44, 633-652	7.8	17
46	Study of sulphation of Candoglia marble by means of micro X-ray diffraction experiments. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 83, 689-694	2.6	17
45	Biological invasion in the indoor environment: the spread of Eurotium halophilicum on library materials. <i>International Biodeterioration and Biodegradation</i> , 2017 , 118, 34-44	4.8	16
44	Assessment of indoor air environment of a Nigerian museum library and its biodeteriorated books using culture-dependent and independent techniques. <i>International Biodeterioration and Biodegradation</i> , 2018 , 132, 139-149	4.8	16
43	RNA-based molecular survey of biodiversity of limestone tombstone microbiota in response to atmospheric sulphur pollution. <i>Letters in Applied Microbiology</i> , 2015 , 60, 92-102	2.9	15
42	Evaluation of zosteric acid for mitigating biofilm formation of Pseudomonas putida isolated from a membrane bioreactor system. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 9497-518	6.3	15
41	Effects of Sub-lethal Concentrations of Silver Nanoparticles on a Simulated Intestinal Prokaryotic-Eukaryotic Interface. <i>Frontiers in Microbiology</i> , 2017 , 8, 2698	5.7	14
40	Evaluation of Accelerated Ageing Tests for Metallic and Non-Metallic Graffiti Paints Applied to Stone. <i>Coatings</i> , 2017 , 7, 180	2.9	14
39	Permeabilization method for in-situ investigation of fungal conidia on surfaces. <i>Letters in Applied Microbiology</i> , 2009 , 48, 234-40	2.9	14
38	Surface colour: An overlooked aspect in the study of cyanobacterial biofilm formation. <i>Science of the Total Environment</i> , 2019 , 659, 342-353	10.2	14
37	N-vanillylnonanamide tested as a non-toxic antifoulant, applied to surfaces in a polyurethane coating. <i>Biotechnology Letters</i> , 2009 , 31, 1407-13	3	12
36	Sub-lethal concentrations of Muscari comosum bulb extract suppress adhesion and induce detachment of sessile yeast cells. <i>Biofouling</i> , 2012 , 28, 1107-17	3.3	12
35	Coating polypropylene surfaces with protease weakens the adhesion and increases the dispersion of Candida albicans cells. <i>Biotechnology Letters</i> , 2017 , 39, 423-428	3	10

34	Chymotrypsin Immobilized on a Low-Density Polyethylene Surface Successfully Weakens Biofilm Formation. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	10
33	Aesthetic Alteration of Marble Surfaces Caused by Biofilm Formation: Effects of Chemical Cleaning. <i>Coatings</i> , 2020 , 10, 122	2.9	9
32	Evaluating the microbiological risk to a contemporary Nigerian painting: Molecular and biodegradative studies. <i>International Biodeterioration and Biodegradation</i> , 2016 , 114, 184-192	4.8	9
31	Effectiveness of Graft Synthetic Polymers in Preventing Biodeterioration of Cellulose-Based Materials. <i>Macromolecular Symposia</i> , 2006 , 238, 84-91	0.8	9
30	Characterization of a biofilm and the pattern outlined by its growth on a granite-built cloister in the Monastery of San Martiñ Pinarío (Santiago de Compostela, NW Spain). <i>International Biodeterioration and Biodegradation</i> , 2020 , 147, 104871	4.8	9
29	Bioremoval of graffiti using novel commercial strains of bacteria. <i>Science of the Total Environment</i> , 2021 , 756, 144075	10.2	9
28	Age, palaeoenvironment, and preservation of prehistoric petroglyphs on a boulder in the oasis of Salut (northern Sultanate of Oman). <i>Quaternary International</i> , 2021 , 572, 106-119	2	9
27	Immobilized Hydrolytic Enzymes Exhibit Antibiofilm Activity Against Escherichia coli at Sub-Lethal Concentrations. <i>Current Microbiology</i> , 2015 , 71, 106-14	2.4	8
26	Microbiological Analysis of Surfaces of Leonardo Da Vinci's Atlantic Codex: Biodeterioration Risk. <i>International Journal of Microbiology</i> , 2014 , 2014, 214364	3.6	8
25	An In Vitro Evaluation of the Biocidal Effect of Oregano and Cloves Volatile Compounds against Microorganisms Colonizing an Oil Painting A Pioneer Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 78	2.6	8
24	Zosteric acid and salicylic acid bound to a low density polyethylene surface successfully control bacterial biofilm formation. <i>Biofouling</i> , 2018 , 34, 440-452	3.3	7
23	Effects of sublethal concentrations of silver nanoparticles on Escherichia coli and Bacillus subtilis under aerobic and anaerobic conditions. <i>Biointerphases</i> , 2016 , 11, 04B308	1.8	7
22	Hindering the formation and promoting the dispersion of medical biofilms: non-lethal effects of seagrass extracts. <i>BMC Complementary and Alternative Medicine</i> , 2018 , 18, 168	4.7	7
21	The Ecology of Subaerial Biofilms in Dry and Inhospitable Terrestrial Environments. <i>Microorganisms</i> , 2019 , 7,	4.9	6
20	Promoting Beneficial and Inhibiting Undesirable Biofilm Formation with Mangrove Extracts. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	6
19	Dynamics of bacterial communities and substrate conversion during olive-mill waste dark fermentation: Prediction of the metabolic routes for hydrogen production. <i>Bioresource Technology</i> , 2021 , 319, 124157	11	6
18	Sub-lethal concentrations of Perilla frutescens essential oils affect phytopathogenic fungal biofilms. <i>Journal of Environmental Management</i> , 2019 , 245, 264-272	7.9	5
17	Low density polyethylene functionalized with antibiofilm compounds inhibits Escherichia coli cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 3251-3261	5.4	5

16	Non-Lethal Effects of -Acetylcysteine on Strain De Donno Biofilm Formation and Detachment. <i>Microorganisms</i> , 2019 , 7,	4.9	5
15	Interactions of microorganisms and synthetic polymers in cultural heritage conservation. <i>International Biodeterioration and Biodegradation</i> , 2021 , 163, 105282	4.8	5
14	Evaluation of Cleaning Methods for Graffiti Removal. <i>Air Pollution Reviews</i> , 2016 , 291-312		4
13	Secondary bioreceptivity of granite: effect of salt weathering on subaerial biofilm growth. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018 , 51, 1	3.4	4
12	A new non-degenerate primer pair for the specific detection of the nitrite reductase gene <i>nrfA</i> in the genus <i>Desulfovibrio</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2012 , 22, 345-51	0.9	3
11	Culture-independent methods to study subaerial biofilm growing on biodeteriorated surfaces of stone cultural heritage and frescoes. <i>Methods in Molecular Biology</i> , 2014 , 1147, 341-66	1.4	2
10	Label-Free Proteomic Approach to Study the Non-lethal Effects of Silver Nanoparticles on a Gut Bacterium. <i>Frontiers in Microbiology</i> , 2019 , 10, 2709	5.7	2
9	Biochemical and molecular changes of the zosteric acid-treated <i>Escherichia coli</i> biofilm on a mineral surface. <i>Annals of Microbiology</i> , 2021 , 71,	3.2	2
8	Biological risk assessment in the History and Historical Documentation Library of the University of Milan. <i>Science of the Total Environment</i> , 2021 , 790, 148204	10.2	2
7	Sidestepping the challenge of casein quantification in ancient paintings by dot-blot immunoassay. <i>Microchemical Journal</i> , 2017 , 134, 362-369	4.8	1
6	2nd International Workshop on Science, Technology and Cultural Heritage. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 127-128	2.6	1
5	The Sustainability of Rock Art: Preservation and Research. <i>Sustainability</i> , 2022 , 14, 6305	3.6	1
4	<i>Klebsiella aerogenes</i> and <i>Comamonas testosteroni</i> as bioremoval agents on graffiti-coated concrete and granite: Impact assessment through surface analysis. <i>International Biodeterioration and Biodegradation</i> , 2021 , 161, 105244	4.8	0
3	Novel Antibiofilm Non-Biocidal Strategies 2021 , 117-136		0
2	The tombstones at the Monumental Cemetery of Milano select for a specialized microbial community. <i>International Biodeterioration and Biodegradation</i> , 2021 , 164, 105298	4.8	0
1	The Green Patina and Chromatic Alterations on Surfaces of Gypsum Plaster Casts by Lucio Fontana: Multidisciplinary Investigations in a Case Study of Contemporary Art. <i>Coatings</i> , 2022 , 12, 426	2.9	