

# Federica Villa

## List of Publications by Year in descending order

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71  
papers

2,012  
citations

196777

29  
h-index

312153

41  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2647  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Sustainability of Rock Art: Preservation and Research. <i>Sustainability</i> , 2022, 14, 6305.	1.6	10
2	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.	4.8	20
3	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.	0.7	10
4	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, .	1.1	7
5	Effects of the Quinone Oxidoreductase WrbA on <i>Escherichia coli</i> Biofilm Formation and Oxidative Stress. <i>Antioxidants</i> , 2021, 10, 919.	2.2	8
6	Interactions of microorganisms and synthetic polymers in cultural heritage conservation. <i>International Biodeterioration and Biodegradation</i> , 2021, 163, 105282.	1.9	12
7	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.	3.9	6
8	The tombstones at the Monumental Cemetery of Milano select for a specialized microbial community. <i>International Biodeterioration and Biodegradation</i> , 2021, 164, 105298.	1.9	7
9	Understanding the Role of the Antioxidant Drug Erdosteine and Its Active Metabolite on <i>Staphylococcus aureus</i> Methicillin Resistant Biofilm Formation. <i>Antioxidants</i> , 2021, 10, 1922.	2.2	1
10	Characterization of a biofilm and the pattern outlined by its growth on a granite-built cloister in the Monastery of San Marti�o Pinaro (Santiago de Compostela, NW Spain). <i>International Biodeterioration and Biodegradation</i> , 2020, 147, 104871.	1.9	14
11	The Control of Cultural Heritage Microbial Deterioration. <i>Microorganisms</i> , 2020, 8, 1542.	1.6	72
12	Geomicrobial Investigations of Colored Outer Coatings from an Ethiopian Rock Art Gallery. <i>Coatings</i> , 2020, 10, 536.	1.2	5
13	Aesthetic Alteration of Marble Surfaces Caused by Biofilm Formation: Effects of Chemical Cleaning. <i>Coatings</i> , 2020, 10, 122.	1.2	17
14	Air-breathing bio-cathodes based on electro-active biochar from pyrolysis of Giant Cane stalks. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4496-4507.	3.8	23
15	Promoting Beneficial and Inhibiting Undesirable Biofilm Formation with Mangrove Extracts. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3549.	1.8	7
16	The Ecology of Subaerial Biofilms in Dry and Inhospitable Terrestrial Environments. <i>Microorganisms</i> , 2019, 7, 380.	1.6	17
17	Sub-lethal concentrations of <i>Perilla frutescens</i> essential oils affect phytopathogenic fungal biofilms. <i>Journal of Environmental Management</i> , 2019, 245, 264-272.	3.8	12
18	Non-Lethal Effects of N-Acetylcysteine on <i>Xylella fastidiosa</i> Strain De Donno Biofilm Formation and Detachment. <i>Microorganisms</i> , 2019, 7, 656.	1.6	8

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19	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.	1.5	5
20	Surface colour: An overlooked aspect in the study of cyanobacterial biofilm formation. <i>Science of the Total Environment</i> , 2019, 659, 342-353.	3.9	23
21	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.	3.7	33
22	Bioelectrochemical Nitrogen fixation (e-BNF): Electro-stimulation of enriched biofilm communities drives autotrophic nitrogen and carbon fixation. <i>Bioelectrochemistry</i> , 2019, 125, 105-115.	2.4	28
23	Zosteric acid and salicylic acid bound to a low density polyethylene surface successfully control bacterial biofilm formation. <i>Biofouling</i> , 2018, 34, 440-452.	0.8	10
24	Î±-Chymotrypsin Immobilized on a Low-Density Polyethylene Surface Successfully Weakens <i>Escherichia coli</i> Biofilm Formation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4003.	1.8	18
25	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.	3.7	15
26	Biofilm colonization of metamorphic lithotypes of a renaissance cathedral exposed to urban atmosphere. <i>Science of the Total Environment</i> , 2018, 639, 1480-1490.	3.9	38
27	Recent progress in bio-inspired biofilm-resistant polymeric surfaces. <i>Critical Reviews in Microbiology</i> , 2018, 44, 633-652.	2.7	24
28	Biological invasion in the indoor environment: the spread of <i>Eurotium halophilicum</i> on library materials. <i>International Biodeterioration and Biodegradation</i> , 2017, 118, 34-44.	1.9	29
29	The response of <i>Escherichia coli</i> biofilm to salicylic acid. <i>Biofouling</i> , 2017, 33, 235-251.	0.8	32
30	Influences of dissolved oxygen concentration on biocathodic microbial communities in microbial fuel cells. <i>Bioelectrochemistry</i> , 2017, 116, 39-51.	2.4	101
31	Zinc oxide nanoparticles hinder fungal biofilm development in an ancient Egyptian tomb. <i>International Biodeterioration and Biodegradation</i> , 2017, 122, 92-99.	1.9	35
32	Low density polyethylene functionalized with antibiofilm compounds inhibits <i>Escherichia coli</i> cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 3251-3261.	2.1	6
33	Coating polypropylene surfaces with protease weakens the adhesion and increases the dispersion of <i>Candida albicans</i> cells. <i>Biotechnology Letters</i> , 2017, 39, 423-428.	1.1	15
34	Fungal Biofilms: Targets for the Development of Novel Strategies in Plant Disease Management. <i>Frontiers in Microbiology</i> , 2017, 8, 654.	1.5	56
35	Photorespiration and Rate Synchronization in a Phototroph-Heterotroph Microbial Consortium. <i>Processes</i> , 2017, 5, 11.	1.3	5
36	Effects of Sub-lethal Concentrations of Silver Nanoparticles on a Simulated Intestinal Prokaryotic-Eukaryotic Interface. <i>Frontiers in Microbiology</i> , 2017, 8, 2698.	1.5	18

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37	Effects of sublethal concentrations of silver nanoparticles on <i>Escherichia coli</i> and <i>Bacillus subtilis</i> under aerobic and anaerobic conditions. <i>Biointerphases</i> , 2016, 11, 04B308.	0.6	17
38	Subaerial Biofilms on Outdoor Stone Monuments: Changing the Perspective Toward an Ecological Framework. <i>BioScience</i> , 2016, 66, 285-294.	2.2	38
39	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.	1.5	42
40	Unravelling the Structural and Molecular Basis Responsible for the Anti-Biofilm Activity of Zosteric Acid. <i>PLoS ONE</i> , 2015, 10, e0131519.	1.1	45
41	Effects of sublethal doses of silver nanoparticles on <i>Bacillus subtilis</i> planktonic and sessile cells. <i>Journal of Applied Microbiology</i> , 2015, 118, 1103-1115.	1.4	46
42	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.	1.0	19
43	Immobilized Hydrolytic Enzymes Exhibit Antibiofilm Activity Against <i>Escherichia coli</i> at Sub-Lethal Concentrations. <i>Current Microbiology</i> , 2015, 71, 106-114.	1.0	10
44	Rapid evaluation of three biocide treatments against the cyanobacterium <i>Nostoc</i> sp. PCC 9104 by color changes. <i>Annals of Microbiology</i> , 2015, 65, 1153-1158.	1.1	20
45	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.	0.8	24
46	Evaluation of Zosteric Acid for Mitigating Biofilm Formation of <i>Pseudomonas putida</i> Isolated from a Membrane Bioreactor System. <i>International Journal of Molecular Sciences</i> , 2014, 15, 9497-9518.	1.8	18
47	Biofilm Formation in Food Processing Environments is Still Poorly Understood and Controlled. <i>Food Engineering Reviews</i> , 2014, 6, 29-42.	3.1	122
48	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, 341-366.	0.4	2
49	A simple and reliable methodology to detect egg white in art samples. <i>Journal of Biosciences</i> , 2013, 38, 397-408.	0.5	29
50	Plant-derived bioactive compounds at sub-lethal concentrations: towards smart biocide-free antibiofilm strategies. <i>Phytochemistry Reviews</i> , 2013, 12, 245-254.	3.1	40
51	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, 3184-3204.	1.0	22
52	Cyanobacteria cause black staining of the National Museum of the American Indian Building, Washington, DC, USA. <i>Biofouling</i> , 2012, 28, 257-266.	0.8	29
53	Sub-lethal concentrations of <i>Muscari comosum</i> bulb extract suppress adhesion and induce detachment of sessile yeast cells. <i>Biofouling</i> , 2012, 28, 1107-1117.	0.8	15
54	Degradation of nitrocellulose-based paint by <i>Desulfovibrio desulfuricans</i> ATCC 13541. <i>Biodegradation</i> , 2012, 23, 705-716.	1.5	48

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55	Importance of subaerial biofilms and airborne microflora in the deterioration of stonework: a molecular study. <i>Biofouling</i> , 2012, 28, 1093-1106.	0.8	32
56	Effects of chronic sub-lethal oxidative stress on biofilm formation by <i>Azotobacter vinelandii</i> . <i>Biofouling</i> , 2012, 28, 823-833.	0.8	45
57	Shifts of microbial community structure during anaerobic digestion of agro-industrial energetic crops and food industry byproducts. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1302-1311.	1.6	30
58	Altered expression level of <i>Escherichia coli</i> proteins in response to treatment with the antifouling agent zosteric acid sodium salt. <i>Environmental Microbiology</i> , 2012, 14, 1753-1761.	1.8	33
59	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, 1387-1394.	1.3	35
60	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.	1.9	41
61	Color measurements as a reliable method for estimating chlorophyll degradation to phaeopigments. <i>Biodegradation</i> , 2011, 22, 763-771.	1.5	46
62	Molecular Studies of Microbial Community Structure on Stained Pages of Leonardo da Vinci's Atlantic Codex. <i>Microbial Ecology</i> , 2011, 61, 214-222.	1.4	39
63	Microbial Deterioration of Artistic Tiles from the Façade of the Grande Albergo Ausonia & Hungaria (Venice, Italy). <i>Microbial Ecology</i> , 2011, 62, 287-298.	1.4	35
64	Efficacy of Zosteric Acid Sodium Salt on the Yeast Biofilm Model <i>Candida albicans</i> . <i>Microbial Ecology</i> , 2011, 62, 584-598.	1.4	44
65	Feasibility of Removing Surface Deposits on Stone Using Biological and Chemical Remediation Methods. <i>Microbial Ecology</i> , 2010, 60, 1-14.	1.4	82
66	Hindering biofilm formation with zosteric acid. <i>Biofouling</i> , 2010, 26, 739-752.	0.8	47
67	N-vanillylnonanamide tested as a non-toxic antifoulant, applied to surfaces in a polyurethane coating. <i>Biotechnology Letters</i> , 2009, 31, 1407-1413.	1.1	12
68	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, 215-220.	1.4	20
69	Detection and Elimination of Cyanobacteria from Frescoes: The Case of the St. Brizio Chapel (Orvieto) <a href="#">Tj ETQq1 1 0,784314 rgBT / Overl</a>	1.4	39
70	Permeabilization method for <i>in-situ</i> investigation of fungal conidia on surfaces. <i>Letters in Applied Microbiology</i> , 2009, 48, 234-240.	1.0	16
71	Metal toxicity in municipal wastewater activated sludge investigated by multivariate analysis and <i>in situ</i> hybridization. <i>Water Research</i> , 2006, 40, 99-106.	5.3	82