

# Andrea Franzetti

## List of Publications by Year in descending order

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Version: 2024-02-01

114  
papers

5,409  
citations

94433

37  
h-index

88630

70  
g-index

122  
all docs

122  
docs citations

122  
times ranked

6408  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial biosurfactants production, applications and future potential. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 427-444.	3.6	1,193
2	First evidence of microplastic contamination in the supraglacial debris of an alpine glacier. <i>Environmental Pollution</i> , 2019, 253, 297-301.	7.5	230
3	Production and applications of trehalose lipid biosurfactants. <i>European Journal of Lipid Science and Technology</i> , 2010, 112, 617-627.	1.5	218
4	The Interaction between Plants and Bacteria in the Remediation of Petroleum Hydrocarbons: An Environmental Perspective. <i>Frontiers in Microbiology</i> , 2016, 7, 1836.	3.5	176
5	Temporal variability and effect of environmental variables on airborne bacterial communities in an urban area of Northern Italy. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6561-6570.	3.6	165
6	Unravelling the bacterial diversity in the atmosphere. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 4727-4736.	3.6	138
7	Electrobioremediation of oil spills. <i>Water Research</i> , 2017, 114, 351-370.	11.3	119
8	Seasonal variability of bacteria in fine and coarse urban air particulate matter. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 745-753.	3.6	115
9	Potential applications of surface active compounds by <i>Gordonia</i> sp. strain BS29 in soil remediation technologies. <i>Chemosphere</i> , 2009, 75, 801-807.	8.2	102
10	Spatio-temporal variability of airborne bacterial communities and their correlation with particulate matter chemical composition across two urban areas. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 4867-4877.	3.6	88
11	Season linked responses to fine and quasi-ultrafine Milan PM in cultured cells. <i>Toxicology in Vitro</i> , 2013, 27, 551-559.	2.4	87
12	Surface-active compounds and their role in the access to hydrocarbons in <i>Gordonia</i> strains. <i>FEMS Microbiology Ecology</i> , 2008, 63, 238-248.	2.7	84
13	Influence of compost amendment on microbial community and ecotoxicity of hydrocarbon-contaminated soils. <i>Bioresource Technology</i> , 2010, 101, 568-575.	9.6	81
14	Influence of seasonality, air mass origin and particulate matter chemical composition on airborne bacterial community structure in the Po Valley, Italy. <i>Science of the Total Environment</i> , 2017, 593-594, 677-687.	8.0	81
15	Environmental features of two commercial surfactants widely used in soil remediation. <i>Chemosphere</i> , 2006, 62, 1474-1480.	8.2	76
16	Anodes Stimulate Anaerobic Toluene Degradation via Sulfur Cycling in Marine Sediments. <i>Applied and Environmental Microbiology</i> , 2016, 82, 297-307.	3.1	74
17	Applications of Biological Surface Active Compounds in Remediation Technologies. <i>Advances in Experimental Medicine and Biology</i> , 2010, 672, 121-134.	1.6	68
18	Investigation of different configurations of microbial fuel cells for the treatment of oilfield produced water. <i>Applied Energy</i> , 2017, 192, 457-465.	10.1	67

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19	Thermophilic bacteria in cool temperate soils: are they metabolically active or continually added by global atmospheric transport?. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 841-852.	3.6	64
20	Bacterial community structure on two alpine debris-covered glaciers and biogeography of <i>Polaromonas</i> phylotypes. <i>ISME Journal</i> , 2013, 7, 1483-1492.	9.8	63
21	Isolation and characterisation of surface active compound-producing bacteria from hydrocarbon-contaminated environments. <i>International Biodeterioration and Biodegradation</i> , 2009, 63, 936-942.	3.9	62
22	Environmental fate, toxicity, characteristics and potential applications of novel bioemulsifiers produced by <i>Variovorax paradoxus</i> 7bCT5. <i>Bioresource Technology</i> , 2012, 108, 245-251.	9.6	59
23	Anodic and cathodic microbial communities in single chamber microbial fuel cells. <i>New Biotechnology</i> , 2015, 32, 79-84.	4.4	59
24	<i>In situ</i> downstream strategies for cost-effective bio/surfactant recovery. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 523-532.	3.1	58
25	Bacterial DGGE fingerprints of biofilms on electrodes of membraneless microbial fuel cells. <i>International Biodeterioration and Biodegradation</i> , 2013, 84, 211-219.	3.9	55
26	Effect of preservation method on the assessment of bacterial community structure in soil and water samples. <i>FEMS Microbiology Letters</i> , 2014, 356, 32-38.	1.8	50
27	Selection of surfactants for enhancing diesel hydrocarbons-contaminated media bioremediation. <i>Journal of Hazardous Materials</i> , 2008, 152, 1309-1316.	12.4	48
28	The bioelectric well: a novel approach for <i>in situ</i> treatment of hydrocarbon-contaminated groundwater. <i>Microbial Biotechnology</i> , 2018, 11, 112-118.	4.2	48
29	Bioremediation of Diethylhexyl Phthalate Contaminated Soil: A Feasibility Study in Slurry- and Solid-Phase Reactors. <i>Environmental Science &amp; Technology</i> , 2005, 39, 325-330.	10.0	47
30	Light-dependent microbial metabolisms drive carbon fluxes on glacier surfaces. <i>ISME Journal</i> , 2016, 10, 2984-2988.	9.8	47
31	Bioelectrochemical BTEX removal at different voltages: assessment of the degradation and characterization of the microbial communities. <i>Journal of Hazardous Materials</i> , 2018, 341, 120-127.	12.4	47
32	Glacier algae foster ice-albedo feedback in the European Alps. <i>Scientific Reports</i> , 2020, 10, 4739.	3.3	46
33	Naphthalene biodegradation kinetics in an aerobic slurry-phase bioreactor. <i>Environment International</i> , 2005, 31, 167-171.	10.0	45
34	A non-toxic microbial surfactant from <i>Marinobacter hydrocarbonoclasticus</i> SdK644 for crude oil solubilization enhancement. <i>Ecotoxicology and Environmental Safety</i> , 2018, 154, 100-107.	6.0	43
35	Cultural factors affecting biosurfactant production by <i>Gordonia</i> sp. BS29. <i>International Biodeterioration and Biodegradation</i> , 2009, 63, 943-947.	3.9	41
36	Bacterial communities of cryoconite holes of a temperate alpine glacier show both seasonal trends and year-to-year variability. <i>Annals of Glaciology</i> , 2018, 59, 1-9.	1.4	41

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37	Topsoil organic matter build-up in glacier forelands around the world. <i>Global Change Biology</i> , 2021, 27, 1662-1677.	9.5	41
38	Potential sources of bacteria colonizing the cryoconite of an Alpine glacier. <i>PLoS ONE</i> , 2017, 12, e0174786.	2.5	41
39	Mechanical and rheological properties of natural rubber compounds containing devulcanized ground tire rubber from several methods. <i>Polymer Degradation and Stability</i> , 2015, 121, 369-377.	5.8	40
40	Characterization of the Skin Microbiota in Italian Stream Frogs (<i>Rana italica</i>) Infected and Uninfected by a Cutaneous Parasitic Disease. <i>Microbes and Environments</i> , 2015, 30, 262-269.	1.6	38
41	Hydrocarbon degrading microbial communities in bench scale aerobic biobarriers for gasoline contaminated groundwater treatment. <i>Chemosphere</i> , 2015, 130, 34-39.	8.2	38
42	Airborne bacteria and persistent organic pollutants associated with an intense Saharan dust event in the Central Mediterranean. <i>Science of the Total Environment</i> , 2018, 645, 401-410.	8.0	38
43	Shift in microbial community structure of anaerobic side-stream reactor in response to changes to anaerobic solid retention time and sludge interchange ratio. <i>Bioresource Technology</i> , 2016, 221, 588-597.	9.6	35
44	Diversity and hydrocarbon-degrading potential of epiphytic microbial communities on <i>Platanus x acerifolia</i> leaves in an urban area. <i>Environmental Pollution</i> , 2017, 220, 650-658.	7.5	35
45	Cryoconite: an efficient accumulator of radioactive fallout in glacial environments. <i>Cryosphere</i> , 2020, 14, 657-672.	3.9	32
46	Lab-scale tests and numerical simulations for in situ treatment of polluted groundwater. <i>Journal of Hazardous Materials</i> , 2015, 287, 162-170.	12.4	31
47	Recent trends and advances in microbial electrochemical sensing technologies: An overview. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100762.	4.8	31
48	So close, so different: geothermal flux shapes divergent soil microbial communities at neighbouring sites. <i>Geobiology</i> , 2016, 14, 150-162.	2.4	30
49	Biological devulcanization of ground natural rubber by <i>Gordonia desulfuricans</i> DSM 44462T strain. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8931-8942.	3.6	30
50	Bacteria contribute to pesticide degradation in cryoconite holes in an Alpine glacier. <i>Environmental Pollution</i> , 2017, 230, 919-926.	7.5	29
51	Plant-microorganisms interaction promotes removal of air pollutants in Milan (Italy) urban area. <i>Journal of Hazardous Materials</i> , 2020, 384, 121021.	12.4	29
52	Cryoconite – From minerals and organic matter to bioengineered sediments on glacier's surfaces. <i>Science of the Total Environment</i> , 2022, 807, 150874.	8.0	29
53	Biosurfactant Use in Heavy Metal Removal from Industrial Effluents and Contaminated Sites. , 2014, , 361-370.		28
54	Diversity and Assembling Processes of Bacterial Communities in Cryoconite Holes of a Karakoram Glacier. <i>Microbial Ecology</i> , 2017, 73, 827-837.	2.8	28

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55	Persistence and degrading activity of free and immobilised allochthonous bacteria during bioremediation of hydrocarbon-contaminated soils. <i>Biodegradation</i> , 2013, 24, 1-11.	3.0	27
56	Water bears dominated cryoconite hole ecosystems: densities, habitat preferences and physiological adaptations of Tardigrada on an alpine glacier. <i>Aquatic Ecology</i> , 2019, 53, 543-556.	1.5	25
57	Cloacal microbiomes and ecology of individual barn swallows. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	25
58	Microbial desulfurization of ground tire rubber (GTR): Characterization of microbial communities and rheological and mechanical properties of GTR and natural rubber composites (GTR/NR). <i>Polymer Degradation and Stability</i> , 2019, 160, 102-109.	5.8	25
59	Reconstructing ecosystem functions of the active microbial community of the Baltic Sea oxygen depleted sediments. <i>PeerJ</i> , 2016, 4, e1593.	2.0	25
60	Bioelectrochemical treatment of groundwater containing BTEX in a continuous-flow system: Substrate interactions, microbial community analysis, and impact of sulfate as a co-contaminant. <i>New Biotechnology</i> , 2019, 53, 41-48.	4.4	24
61	Potentials of Winery and Olive Oil Residues for the Production of Rhamnolipids and Other Biosurfactants: A Step Towards Achieving a Circular Economy Model. <i>Waste and Biomass Valorization</i> , 2021, 12, 4733-4743.	3.4	24
62	Slurry phase bioremediation of PAHs in industrial landfill samples at laboratory scale. <i>Waste Management</i> , 2008, 28, 1338-1345.	7.4	23
63	Antibiotic resistance in bacteria associated with coarse atmospheric particulate matter in an urban area. <i>Journal of Applied Microbiology</i> , 2011, 110, 1612-1620.	3.1	22
64	Effects of Olive and Pomegranate By-Products on Human Microbiota: A Study Using the SHIMEÂ® in Vitro Simulator. <i>Molecules</i> , 2019, 24, 3791.	3.8	22
65	Monitoring of electro-active biofilm in soil. <i>Electrochimica Acta</i> , 2008, 54, 41-46.	5.2	21
66	Temporal variability of bacterial communities in cryoconite on an alpine glacier. <i>Environmental Microbiology Reports</i> , 2017, 9, 71-78.	2.4	21
67	Nematodes and rotifers on two Alpine debris-covered glaciers. <i>Italian Journal of Zoology</i> , 2015, 82, 616-623.	0.6	18
68	Anaerobic electrogenic oxidation of toluene in a continuous-flow bioelectrochemical reactor: process performance, microbial community analysis, and biodegradation pathways. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 2136-2145.	2.4	18
69	Every fifth published metagenome is not available to science. <i>PLoS Biology</i> , 2020, 18, e3000698.	5.6	18
70	Microbial Assisted Hexavalent Chromium Removal in Bioelectrochemical Systems. <i>Water (Switzerland)</i> , 2020, 12, 466.	2.7	17
71	Characterization of long-range transported bioaerosols in the Central Mediterranean. <i>Science of the Total Environment</i> , 2021, 763, 143010.	8.0	17
72	Trophic and symbiotic links between obligate-glacier water bears (Tardigrada) and cryoconite microorganisms. <i>PLoS ONE</i> , 2022, 17, e0262039.	2.5	17

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73	Insights into rhamnolipid-based soil remediation technologies by safe microorganisms: A critical review. <i>Journal of Cleaner Production</i> , 2022, 367, 133088.	9.3	17
74	Bioremediation of Diesel Fuel Contaminated Soil: Effect of Non Ionic Surfactants and Selected Bacteria Addition. <i>Annali Di Chimica</i> , 2007, 97, 799-805.	0.6	16
75	Bacterial diversity in snow from mid-latitude mountain areas: Alps, Eastern Anatolia, Karakoram and Himalaya. <i>Annals of Glaciology</i> , 2018, 59, 10-20.	1.4	16
76	Structure and Functions of Hydrocarbon-Degrading Microbial Communities in Bioelectrochemical Systems. <i>Water (Switzerland)</i> , 2020, 12, 343.	2.7	16
77	Progress Towards Bioelectrochemical Remediation of Hexavalent Chromium. <i>Water (Switzerland)</i> , 2019, 11, 2336.	2.7	15
78	Persistence of Enterobacteriaceae Drawn into a Marine Saltern (Saline di Tarquinia, Italy) from the Adjacent Coastal Zone. <i>Water (Switzerland)</i> , 2021, 13, 1443.	2.7	15
79	Phylogenetic characterization of bioemulsifier-producing bacteria. <i>International Biodeterioration and Biodegradation</i> , 2011, 65, 1095-1099.	3.9	14
80	Toluene degradation by <i>Cupriavidus metallidurans</i> CH34 in nitrate-reducing conditions and in Bioelectrochemical Systems. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	14
81	<i>Vibrio</i> communities along a salinity gradient within a marine saltern hypersaline environment (Saline di Tarquinia, Italy). <i>Environmental Microbiology</i> , 2020, 22, 4356-4366.	3.8	14
82	<i>Burkholderia thailandensis</i> E264 as a promising safe rhamnolipids™ producer towards a sustainable valorization of grape marcs and olive mill pomace. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3825-3842.	3.6	13
83	The Retreat of Mountain Glaciers since the Little Ice Age: A Spatially Explicit Database. <i>Data</i> , 2021, 6, 107.	2.3	13
84	Draft Genome Sequence of <i>Arthrobacter</i> sp. Strain SPG23, a Hydrocarbon-Degrading and Plant Growth-Promoting Soil Bacterium. <i>Genome Announcements</i> , 2015, 3, .	0.8	12
85	Spatio-Temporal Variation of the Bacterial Communities along a Salinity Gradient within a Thalassohaline Environment (Saline di Tarquinia Saltens, Italy). <i>Molecules</i> , 2021, 26, 1338.	3.8	12
86	Monod Kinetics Degradation of Low Concentration Residual Organics in Membraneless Microbial Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, H3091-H3096.	2.9	11
87	<sup>37</sup> Cl-compound specific isotope analysis and assessment of functional genes for monitoring monochlorobenzene (MCB) biodegradation under aerobic conditions. <i>Science of the Total Environment</i> , 2018, 619-620, 784-793.	8.0	11
88	Post-Depositional Biodegradation Processes of Pollutants on Glacier Surfaces. <i>Condensed Matter</i> , 2018, 3, 24.	1.8	11
89	Fine-scale spatial heterogeneity of invertebrates within cryoconite holes. <i>Aquatic Ecology</i> , 2019, 53, 179-190.	1.5	11
90	Anode potential selection for sulfide removal in contaminated marine sediments. <i>Journal of Hazardous Materials</i> , 2018, 360, 498-503.	12.4	8

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91	Evaluation of Pre-Analytical and Analytical Methods for Detecting SARS-CoV-2 in Municipal Wastewater Samples in Northern Italy. <i>Water (Switzerland)</i> , 2022, 14, 833.	2.7	8
92	Draft Genome Sequence of <i>Acinetobacter oleivorans</i> PF1, a Diesel-Degrading and Plant-Growth-Promoting Endophytic Strain Isolated from Poplar Trees Growing on a Diesel-Contaminated Plume. <i>Genome Announcements</i> , 2015, 3, .	0.8	7
93	Application of a 1,1,3,3-tetramethylguanidine (TMG)/MeOH-CO <sub>2</sub> in situ derivatization procedure for the gas chromatographic characterization of the fatty acid profile in olive oil. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1801-1806.	3.7	7
94	Cloacal microbiota of barn swallows from Northern Italy. <i>Ethology Ecology and Evolution</i> , 2018, 30, 362-372.	1.4	7
95	Effects of locality and stone surface structure on the distribution of Collembola inhabiting a novel habitat "the stone-ice border on an alpine glacier. <i>Acta Oecologica</i> , 2020, 108, 103629.	1.1	6
96	Characterization of the microbial community in ripened Pecorino Toscano cheese affected by pink discoloration. <i>Food Microbiology</i> , 2022, 104, 104006.	4.2	6
97	In vitro effects of microbiologically characterized Milan particulate matter. <i>Procedia Environmental Sciences</i> , 2011, 4, 192-197.	1.4	5
98	Ecological features of feather microbiota in breeding common swifts. <i>Ethology Ecology and Evolution</i> , 2018, 30, 569-581.	1.4	5
99	Thermophilic bacteria in cool soils: metabolic activity and mechanisms of dispersal. , 2011, , 43-58.		4
100	Isolation and screening of surface active compound-producing bacteria on renewable substrates. , 2009, , .		4
101	Investigation of Physico-chemical Properties and Characterization of Produced Biosurfactant by Selected Indigenous Oil-degrading Bacterium. <i>Iranian Journal of Public Health</i> , 2018, 47, 1151-1159.	0.5	4
102	Is Oxygenation Related to the Decomposition of Organic Matter in Cryoconite Holes?. <i>Ecosystems</i> , 2022, 25, 1510-1521.	3.4	4
103	Isolation and characterization of a novel rhamnolipid producer <i>Pseudomonas</i> sp. LGMS7 from a highly contaminated site in Ain El Arbaa region of Ain Temouchent, Algeria. <i>3 Biotech</i> , 2021, 11, 200.	2.2	3
104	Remediation of groundwater polluted by gasoline-derived compounds with biobarriers. , 2012, , .		3
105	Bacterial Succession and Community Dynamics of the Emerging Leaf Phyllosphere in Spring. <i>Microbiology Spectrum</i> , 2022, 10, e0242021.	3.0	3
106	Fungal communities in European alpine soils are not affected by short-term <i>in situ</i> simulated warming than bacterial communities. <i>Environmental Microbiology</i> , 0, , .	3.8	3
107	Bio-electrochemical Remediation of Petroleum Hydrocarbons. , 2020, , 269-285.		2
108	Bioelectrochemical Processes for the Treatment of Oil-Contaminated Water and Sediments. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , 2020, , 373-394.	0.5	2

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109	Biodegradation of N,N diethylaniline in a contaminated aquifer: laboratory- and field-scale evidences. Biodegradation, 2010, 21, 193-201.	3.0	1
110	Draft Genome Sequence of Acinetobacter calcoaceticus Strain GK1, a Hydrocarbon-Degrading Plant Growth-Promoting Rhizospheric Bacterium. Genome Announcements, 2015, 3, .	0.8	1
111	Integrated biological and chemical characterisation of a pair of leonardesque canal lock gates. PLoS ONE, 2021, 16, e0247478.	2.5	1
112	Enhanced Exoelectrogenic Activity of Cupriavidus metallidurans in Bioelectrochemical Systems through the Expression of a Constitutively Active Diguanilate Cyclase. Environments - MDPI, 2022, 9, 80.	3.3	1
113	Optimisation of emulsifier production by Gordonia spp. BS29. New Biotechnology, 2009, 25, S77.	4.4	0
114	Applications of Surface Active Compounds by <i>Gordonia</i> in bioremediation and washing of hydrocarbon-contaminated soils. , 2009, , .		0