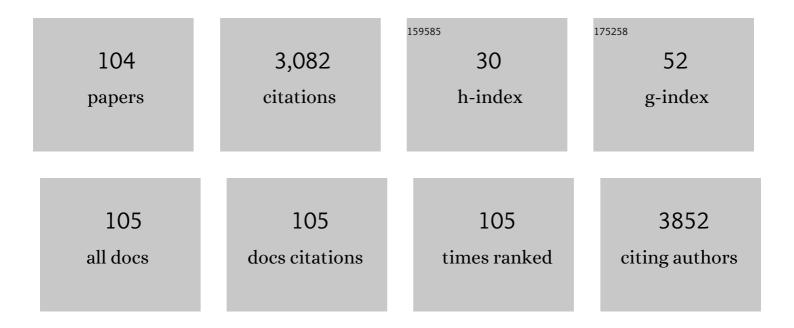
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ecology of Phototrophic Sulfur Bacteria. Advances in Photosynthesis and Respiration, 1995, , 49-85.	1.0	185
2	Microbial communities from different types of natural wastewater treatment systems: Vertical and horizontal flow constructed wetlands and biofilters. Water Research, 2014, 55, 304-312.	11.3	170
3	Phototrophic sulfur bacteria in two Spanish lakes: Vertical distribution and limiting factors1. Limnology and Oceanography, 1985, 30, 919-931.	3.1	169
4	Silicon-based microfabricated microbial fuel cell toxicity sensor. Biosensors and Bioelectronics, 2011, 26, 2426-2430.	10.1	165
5	Predatory prokaryotes: Predation and primary consumption evolved in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 2138-2142.	7.1	136
6	Assessment of soil and groundwater impacts by treated urban wastewater reuse. A case study: Application in a golf course (Girona, Spain). Science of the Total Environment, 2007, 374, 26-35.	8.0	118
7	Comparison of Different Denaturing Gradient Gel Electrophoresis Primer Sets for the Study of Marine Bacterioplankton Communities. Applied and Environmental Microbiology, 2007, 73, 5962-5967.	3.1	102
8	The influence of poly-?-hydroxybutyrate accumulation on cell volume and buoyant density in alcaligenes eutrophus. Archives of Microbiology, 1985, 143, 178-184.	2.2	85
9	Role of discontinuous chlorination on microbial production by drinking water biofilms. Water Research, 2005, 39, 1896-1906.	11.3	75
10	Transient Storage of Electrical Charge in Biofilms of <i>Shewanella oneidensis</i> MR-1 Growing in a Microbial Fuel Cell. Environmental Science & Technology, 2011, 45, 10250-10256.	10.0	75
11	Key design factors affecting microbial community composition and pathogenic organism removal in horizontal subsurface flow constructed wetlands. Science of the Total Environment, 2014, 481, 81-89.	8.0	72
12	Molecular Characterization of an Oil-Degrading Cyanobacterial Consortium. Microbial Ecology, 2005, 50, 580-588.	2.8	70
13	Electrochemical performance and microbial community profiles in microbial fuel cells in relation to electron transfer mechanisms. BMC Microbiology, 2017, 17, 208.	3.3	67
14	Buoyant density changes due to intracellular content of sulfur in Chromatium warmingii and Chromatium vinosum. Archives of Microbiology, 1984, 137, 350-356.	2.2	60
15	Fast phage detection and quantification: An optical density-based approach. PLoS ONE, 2019, 14, e0216292.	2.5	59
16	Calorimetry of microbial growth using a thermopile based microreactor. Thermochimica Acta, 2005, 427, 187-191.	2.7	53
17	Diel cycle of metabolism of phototrophic purple sulfur bacteria in Lake Cisó (Spain)1. Limnology and Oceanography, 1985, 30, 932-943.	3.1	50
18	Analytical monitoring of alcoholic fermentation using NIR spectroscopy. Biotechnology and Bioengineering, 2004, 88, 536-542.	3.3	48

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19	Mathematical model for determining the effects of intracytoplasmic inclusions on volume and density of microorganisms. Journal of Bacteriology, 1985, 164, 749-756.	2.2	48
20	Amperometric detection of Enterobacteriaceae in river water by measuring β-galactosidase activity at interdigitated microelectrode arrays. Analytica Chimica Acta, 2010, 677, 156-161.	5.4	47
21	Superparamagnetic Ag@Coâ€Nanocomposites on Granulated Cation Exchange Polymeric Matrices with Enhanced Antibacterial Activity for the Environmentally Safe Purification of Water. Advanced Functional Materials, 2013, 23, 2450-2458.	14.9	47
22	High-diversity biofilm for the oxidation of sulfide-containing effluents. Applied Microbiology and Biotechnology, 2004, 64, 726-734.	3.6	45
23	Influence of sulfur accumulation and composition of sulfur globule on cell volume and buoyant density of Chromatium vinosum. Archives of Microbiology, 1987, 146, 362-369.	2.2	41
24	On-chip impedance measurements to monitor biofilm formation in the drinking water distribution network. Sensors and Actuators B: Chemical, 2006, 118, 129-134.	7.8	40
25	Impedimetric approach for quantifying low bacteria concentrations based on the changes produced in the electrode–solution interface during the pre-attachment stage. Biosensors and Bioelectronics, 2008, 23, 1540-1546.	10.1	40
26	Monitoring alcoholic fermentation by joint use of soft and hard modelling methods. Analytica Chimica Acta, 2006, 556, 364-373.	5.4	37
27	Environmentally-safe bimetallic Ag@Co magnetic nanocomposites with antimicrobial activity. Chemical Communications, 2011, 47, 10464.	4.1	35
28	Characterization of Fibrous Polymer Silver/Cobalt Nanocomposite with Enhanced Bactericide Activity. Langmuir, 2012, 28, 783-790.	3.5	35
29	Storage Products in Purple and Green Sulfur Bacteria. Advances in Photosynthesis and Respiration, 1995, , 973-990.	1.0	32
30	In vivo role of adenosine-5′-phosphosulfate reductase in the purple sulfur bacterium Allochromatium vinosum. Archives of Microbiology, 2001, 176, 301-305.	2.2	32
31	Dynamics of microbial diversity profiles in waters of different qualities. Approximation to an ecological quality indicator. Science of the Total Environment, 2014, 468-469, 1154-1161.	8.0	31
32	Primary production in estuarine oxic/anoxic interfaces: contribution of microbial dark CO2 fixation in the Ebro River Salt Wedge Estuary. Marine Ecology - Progress Series, 2001, 215, 49-56.	1.9	31
33	Assessing bacterial diversity in a seawaterâ€processing wastewater treatment plant by 454â€pyrosequencing of the 16 <scp>S rRNA</scp> and <scp><i>amoA</i></scp> genes. Microbial Biotechnology, 2013, 6, 435-442.	4.2	30
34	Impedimetric characterization of the changes produced in the electrode–solution interface by bacterial attachment. Electrochemistry Communications, 2007, 9, 2654-2660.	4.7	29
35	Monolithically integrated biophotonic lab-on-a-chip for cell culture and simultaneous pH monitoring. Lab on A Chip, 2013, 13, 4239.	6.0	28
36	A new non-aerated illuminated packed-column reactor for the development of sulfide-oxidizing biofilms. Applied Microbiology and Biotechnology, 2004, 64, 659-664.	3.6	26

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37	Evaluation of DNA extraction methods from complex phototrophic biofilms. Biofouling, 2010, 26, 349-357.	2.2	24
38	Impedance spectral fingerprint of E. coli cells on interdigitated electrodes: A new approach for label free and selective detection. Sensing and Bio-Sensing Research, 2016, 7, 100-106.	4.2	24
39	Sinking speeds of free-living phototrophic bacteria determined with covered and uncovered traps. Journal of Plankton Research, 1989, 11, 887-905.	1.8	23
40	Role of cyanobacteria in oil biodegradation by microbial mats. International Biodeterioration and Biodegradation, 2006, 58, 186-195.	3.9	22
41	Effect of chlorine, biodegradable dissolved organic carbon and suspended bacteria on biofilm development in drinking water systems. Journal of Basic Microbiology, 2002, 42, 311-319.	3.3	21
42	Potential chemical and microbiological risks on human health from urban wastewater reuse in agriculture. Case study of wastewater effluents in Spain. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2010, 45, 300-309.	1.5	21
43	Polyurethane foams doped with stable silver nanoparticles as bactericidal and catalytic materials for the effective treatment of water. New Journal of Chemistry, 2016, 40, 3716-3725.	2.8	21
44	Portable and miniaturized optofluidic analysis system with ambient light correction for fast in situ determination of environmental pollution. Sensors and Actuators B: Chemical, 2016, 222, 55-62.	7.8	21
45	Sonochemical coating of Prussian Blue for the production of smart bacterial-sensing hospital textiles. Ultrasonics Sonochemistry, 2021, 70, 105317.	8.2	21
46	Elucidating the composition profiles of alcoholic fermentations by use of ALS methodology. Analytica Chimica Acta, 2005, 544, 199-205.	5.4	20
47	Sensitivity and Response Time of Polyethyleneimine Modified Impedimetric Transducer for Bacteria Detection. Electroanalysis, 2015, 27, 656-662.	2.9	20
48	Molecular characterization of activated sludge from a seawaterâ€processing wastewater treatment plant. Microbial Biotechnology, 2011, 4, 628-642.	4.2	19
49	Effect of the cathode/anode ratio and the choice of cathode catalyst on the performance of microbial fuel cell transducers for the determination of microbial activity. Sensors and Actuators B: Chemical, 2012, 170, 88-94.	7.8	19
50	Fast and sensitive optical toxicity bioassay based on dual wavelength analysis of bacterial ferricyanide reduction kinetics. Biosensors and Bioelectronics, 2015, 67, 272-279.	10.1	18
51	Comparison of pure cultures and natural assemblages of planktonic photosynthetic sulfur bacteria by low molecular mass RNA fingerprinting. FEMS Microbiology Ecology, 2000, 32, 25-34.	2.7	17
52	Electro-addressable conductive alginate hydrogel for bacterial trapping and general toxicity determination. Analytica Chimica Acta, 2018, 1036, 115-120.	5.4	17
53	Bioelectrochromic hydrogel for fast antibiotic-susceptibility testing. Journal of Colloid and Interface Science, 2018, 511, 251-258.	9.4	16
54	Rapid Detection of Legionella pneumophila in Drinking Water, Based on Filter Immunoassay and Chronoamperometric Measurement. Biosensors, 2020, 10, 102.	4.7	16

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55	Continuous measurement of acute toxicity in water using a solid state microrespirometer. Sensors and Actuators B: Chemical, 2007, 126, 515-521.	7.8	15
56	Assessment of bismuth thiols and conventional disinfectants on drinking water biofilms. Journal of Applied Microbiology, 2003, 95, 288-293.	3.1	14
57	Paper-based chromatic toxicity bioassay by analysis of bacterial ferricyanide reduction. Analytica Chimica Acta, 2016, 910, 60-67.	5.4	14
58	ldentification of phototrophic sulfur bacteria through the analysis of ImwRNA band patterns. Archives of Microbiology, 1998, 170, 269-278.	2.2	13
59	In Situ Assessment on the Physiological State of Purple and Green Sulfur Bacteria through the Analyses of Pigment and 5S rRNA Content. Microbial Ecology, 2001, 42, 427-437.	2.8	13
60	A new method based on image analysis for determining cyanobacterial biomass by CLSM in stratified benthic sediments. Ultramicroscopy, 2007, 107, 669-673.	1.9	13
61	Sensing bacteria but treating them well: Determination of optimal incubation and storage conditions. Analytical Biochemistry, 2008, 383, 68-75.	2.4	13
62	Phosphate-limited growth of Chromatium vinosum in continuous culture. Archives of Microbiology, 1992, 157, 135-140.	2.2	10
63	Resolution of binary mixtures of microorganisms using electrochemical impedance spectroscopy and artificial neural networks. Biosensors and Bioelectronics, 2008, 24, 958-962.	10.1	10
64	Intermatrix synthesis of monometallic and magnetic metal/metal oxide nanoparticles with bactericidal activity on anionic exchange polymers. RSC Advances, 2012, 2, 4596.	3.6	10
65	Description of a redox-controlled sulfidostat for the growth of sulfide-oxidizing phototrophs. Applied and Environmental Microbiology, 1996, 62, 3640-3645.	3.1	10
66	An analysis of the bacterial community in a membrane bioreactor fed with photo-Fenton pre-treated toxic water. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1171-1178.	3.0	9
67	Design of a microfluidic respirometer for semi-continuous amperometric short time biochemical oxygen demand (BODst) analysis. Biochemical Engineering Journal, 2012, 66, 27-37.	3.6	9
68	Prevalence of potentially thermophilic microorganisms in biofilms from greenhouse-enclosed drip irrigation systems. Archives of Microbiology, 2014, 196, 219-226.	2.2	9
69	Biological support media influence the bacterial biofouling community in reverse osmosis water reclamation demonstration plants. Biofouling, 2015, 31, 173-180.	2.2	9
70	Intermatrix synthesis of Ag, AgAu and Au nanoparticles by the galvanic replacement strategy for bactericidal and electrocatalytically active nanocomposites. New Journal of Chemistry, 2016, 40, 10344-10352.	2.8	9
71	Measurement of light absorption and determination of the specific rate of light uptake in cultures of phototrophic microorganisms. Applied and Environmental Microbiology, 1996, 62, 620-624.	3.1	9
72	Utilisation of a packed-bed biofilm reactor for the determination of the potential of biofilm accumulation in water systems. Biofouling, 2005, 21, 151-160.	2.2	8

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73	Microbial trench-based optofluidic system for reagentless determination of phenolic compounds. Lab on A Chip, 2015, 15, 1717-1726.	6.0	8
74	Influence of primer mismatch and microdiversity on DGGE results: a case study with SAR11. Aquatic Microbial Ecology, 2009, 54, 211-216.	1.8	8
75	Acclimation of the photosynthetic response of Chromatium vinosum to light-limiting conditions. Archives of Microbiology, 1998, 170, 405-410.	2.2	7
76	Fluorometric detection of phages in liquid media: Application to turbid samples. Analytica Chimica Acta, 2020, 1111, 23-30.	5.4	7
77	In situ specific loss and growth rates of purple sulfur bacteria in Lake Cis $\tilde{A}f\hat{A}^3$. FEMS Microbiology Letters, 1990, 73, 271-281.	1.8	6
78	Microbial response to disinfectants. , 2003, , 657-693.		6
79	Polymer-Metal Nanocomposites Containing Dual-Function Metal Nanoparticles: Ion-Exchange Materials Modified with Catalytically-Active and Bactericide Silver Nanoparticles. Solvent Extraction and Ion Exchange, 2014, 32, 301-315.	2.0	6
80	Enzymatic Biosensors Based on Electrodeposited Alginate Hydrogels. Procedia Engineering, 2016, 168, 622-625.	1.2	6
81	Integrated Photonic System for Early Warning of Cyanobacterial Blooms in Aquaponics. Analytical Chemistry, 2021, 93, 722-730.	6.5	6
82	Utilization of reducing power in light-limited cultures of Chromatium vinosum DSM 185. Archives of Microbiology, 1998, 170, 411-417.	2.2	5
83	The β-galactosidase assay in perspective: Critical thoughts for biosensor development. Analytical Biochemistry, 2021, 635, 114446.	2.4	5
84	Bacteria Detection at a Single-Cell Level through a Cyanotype-Based Photochemical Reaction. Analytical Chemistry, 2022, 94, 787-792.	6.5	5
85	Variations in cell size and buoyant density of Escherichia coli K12 during glycogen accumulation. FEMS Microbiology Letters, 1989, 57, 231-236.	1.8	4
86	Persistence and proliferation of some unicellular algae in drinking water systems as result of their heterotrophic metabolism: short communication. Water S A, 2004, 29, 113.	0.4	4
87	Measuring acute toxicity using a solid-state microrespirometer. Sensors and Actuators B: Chemical, 2008, 135, 13-20.	7.8	4
88	Impedimetric approach for monitoring bacterial cultures based on the changes in the magnitude of the interface capacitance. Analytical Methods, 2010, 2, 1036.	2.7	4
89	Ecologically Friendly Polymer-Metal and Polymer-Metal Oxide Nanocomposites for Complex Water Treatment. , 2012, , .		4
90	Second order effects of aspect ratio variations in high sensitivity grating couplers. Microelectronic Engineering, 2007, 84, 1775-1778.	2.4	3

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91	Advances in bacterial concentration methods and their integration in portable detection platforms: A review. Analytica Chimica Acta, 2022, 1209, 339079.	5.4	3
92	Polyhydroxyalkanoate Accumulation in Planktonic and Anaerobic Environments. , 1990, , 263-274.		3
93	Activity-tunable nanocomposites based on dissolution and in situ recrystallization of nanoparticles on ion exchange resins. RSC Advances, 2015, 5, 89971-89975.	3.6	2
94	Fast fabrication of reusable polyethersulfone microbial biosensors through biocompatible phase separation. Talanta, 2020, 206, 120192.	5.5	2
95	Kinetics of photoacclimation in cultures of Chromatium vinosum DSM 185 during shifts in light irradiance. Microbiology (United Kingdom), 1999, 145, 827-833.	1.8	1
96	Performance of different cathode catalysts in microbial fuel cell transducers for the determination of microbial activity. Procedia Engineering, 2010, 5, 790-795.	1.2	1
97	Nanoplasmonic Paper-Based Platform for General Screening of Biomacromolecules. Nanomaterials, 2020, 10, 2335.	4.1	1
98	Variations in cell size and buoyant density of Escherichia coli K12 during glycogen accumulation. FEMS Microbiology Letters, 1989, 57, 231-236.	1.8	1
99	Effect of exogenous nucleotides on growth and photopigment synthesis inRhodopseudomonas capsulata. FEBS Letters, 1983, 154, 196-200.	2.8	0
100	Growth of indigenous microorganisms in samples of crude oil in the absence of external electron acceptors. Ophelia, 2004, 58, 223-232.	0.3	0
101	Real Time Automatic System for the Impedimetric Monitoring of Bacterial Growth. Analytical Letters, 2011, 44, 2571-2581.	1.8	0
102	Photonic lab-on-a-chip with environmental light correction for in situ determination of enteric pathogen contamination. , 2014, , .		0
103	Self-oriented Ag-based polycrystalline cubic nanostructures through polymer stabilization. Nanotechnology, 2016, 27, 425603.	2.6	0
104	Assessing Bacterial Diversity in a Seawater-processing Wastewater Treatment Plant by 454-pyrosequencing of the16S rRNA and amoA Genes. , 2016, , 159-172.		0