

Carles M Borrego

List of Publications by Year in descending order

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93
papers

5,095
citations

94269

37
h-index

91712

69
g-index

94
all docs

94
docs citations

94
times ranked

5987
citing authors

#	ARTICLE	IF	CITATIONS
1	Occurrence of antibiotics and antibiotic resistance genes in hospital and urban wastewaters and their impact on the receiving river. <i>Water Research</i> , 2015, 69, 234-242.	5.3	1,187
2	The role of biofilms as environmental reservoirs of antibiotic resistance. <i>Frontiers in Microbiology</i> , 2015, 6, 1216.	1.5	321
3	Occurrence and persistence of antibiotic resistance genes in river biofilms after wastewater inputs in small rivers. <i>Environmental Pollution</i> , 2016, 210, 121-128.	3.7	142
4	Connecting biodiversity and potential functional role in modern euxinic environments by microbial metagenomics. <i>ISME Journal</i> , 2015, 9, 1648-1661.	4.4	123
5	Metagenomic analysis reveals that bacteriophages are reservoirs of antibiotic resistance genes. <i>International Journal of Antimicrobial Agents</i> , 2016, 48, 163-167.	1.1	121
6	Abundance of antibiotic resistance genes in five municipal wastewater treatment plants in the Monastir Governorate, Tunisia. <i>Environmental Pollution</i> , 2016, 219, 353-358.	3.7	107
7	Exploring the contribution of bacteriophages to antibiotic resistance. <i>Environmental Pollution</i> , 2017, 220, 981-984.	3.7	107
8	Insights in the ecology and evolutionary history of the <i>Miscellaneous Crenarchaeotic Group</i> lineage. <i>ISME Journal</i> , 2016, 10, 665-677.	4.4	100
9	Separation of bacteriochlorophyll homologues from green photosynthetic sulfur bacteria by reversed-phase HPLC. <i>Photosynthesis Research</i> , 1994, 41, 157-164.	1.6	99
10	Sewers as potential reservoirs of antibiotic resistance. <i>Science of the Total Environment</i> , 2017, 605-606, 1047-1054.	3.9	99
11	Contribution of bacteriophage and plasmid DNA to the mobilization of antibiotic resistance genes in a river receiving treated wastewater discharges. <i>Science of the Total Environment</i> , 2017, 601-602, 206-209.	3.9	97
12	Antibiotic resistance along an urban river impacted by treated wastewaters. <i>Science of the Total Environment</i> , 2018, 628-629, 453-466.	3.9	91
13	Stream Biofilm Responses to Flow Intermittency: From Cells to Ecosystems. <i>Frontiers in Environmental Science</i> , 2016, 4, .	1.5	88
14	Rearrangement of light harvesting bacteriochlorophyll homologues as a response of green sulfur bacteria to low light intensities. <i>Photosynthesis Research</i> , 1995, 45, 21-30.	1.6	87
15	Emerging contaminants and nutrients synergistically affect the spread of class 1 integron-integrase (<i>intI1</i>) and <i>sul1</i> genes within stable streambed bacterial communities. <i>Water Research</i> , 2018, 138, 77-85.	5.3	82
16	High archaeal richness in the water column of a freshwater sulfurous karstic lake along an interannual study. <i>FEMS Microbiology Ecology</i> , 2008, 66, 331-342.	1.3	81
17	Vertical Distribution of Ammonia-Oxidizing Crenarchaeota and Methanogens in the Epipelagic Waters of Lake Kivu (Rwanda-Democratic Republic of the Congo). <i>Applied and Environmental Microbiology</i> , 2010, 76, 6853-6863.	1.4	81
18	Title is missing!. <i>Photosynthesis Research</i> , 1999, 59, 159-166.	1.6	80

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19	Pelagic photoferrotrophy and iron cycling in a modern ferruginous basin. <i>Scientific Reports</i> , 2015, 5, 13803.	1.6	80
20	Determination of the topography and biometry of chlorosomes by atomic force microscopy. <i>Photosynthesis Research</i> , 2002, 71, 83-90.	1.6	76
21	Internal Structure of Chlorosomes from Brown-Colored Chlorobium Species and the Role of Carotenoids in Their Assembly. <i>Biophysical Journal</i> , 2006, 91, 1433-1440.	0.2	68
22	Occurrence and persistence of carbapenemase genes in hospital and wastewater treatment plants and propagation in the receiving river. <i>Journal of Hazardous Materials</i> , 2018, 358, 33-43.	6.5	68
23	Implications of Downstream Nitrate Dosage in anaerobic sewers to control sulfide and methane emissions. <i>Water Research</i> , 2015, 68, 522-532.	5.3	67
24	Availability of glucose and light modulates the structure and function of a microbial biofilm. <i>FEMS Microbiology Ecology</i> , 2009, 69, 27-42.	1.3	65
25	New insights on the combined removal of antibiotics and ARGs in urban wastewater through the use of two configurations of vertical subsurface flow constructed wetlands. <i>Science of the Total Environment</i> , 2021, 755, 142554.	3.9	64
26	Title is missing!. <i>Photosynthesis Research</i> , 1999, 60, 257-264.	1.6	62
27	Fate of pharmaceuticals and antibiotic resistance genes in a full-scale on-farm livestock waste treatment plant. <i>Journal of Hazardous Materials</i> , 2019, 378, 120716.	6.5	61
28	Marked seasonality of aerobic anoxygenic phototrophic bacteria in the coastal NW Mediterranean Sea as revealed by cell abundance, pigment concentration and pyrosequencing of <i>pufM</i> gene. <i>Environmental Microbiology</i> , 2014, 16, 2953-2965.	1.8	56
29	Abundance of carbapenemase genes (<i>blaKPC</i> , <i>blaNDM</i> and <i>blaOXA-48</i>) in wastewater effluents from Tunisian hospitals. <i>Environmental Pollution</i> , 2017, 229, 371-374.	3.7	49
30	Wastewater pollution differently affects the antibiotic resistance gene pool and biofilm bacterial communities across streambed compartments. <i>Molecular Ecology</i> , 2017, 26, 5567-5581.	2.0	47
31	Patterns in Abundance, Cell Size and Pigment Content of Aerobic Anoxygenic Phototrophic Bacteria along Environmental Gradients in Northern Lakes. <i>PLoS ONE</i> , 2015, 10, e0124035.	1.1	45
32	Diversity of Miscellaneous Crenarchaeotic Group archaea in freshwater karstic lakes and their segregation between planktonic and sediment habitats. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	1.3	44
33	Metagenomic exploration reveals a marked change in the river resistome and mobilome after treated wastewater discharges. <i>Environmental Pollution</i> , 2018, 234, 538-542.	3.7	44
34	Changes in Microbial Biofilm Communities during Colonization of Sewer Systems. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7271-7280.	1.4	43
35	Real-time PCR assays for the detection and quantification of carbapenemase genes (<i>blaKPC</i> , <i>blaNDM</i> ,) <i>Tj ETQq1</i> 1 0.784314 <i>rgBT</i> /Over 6710-6714.	2.7	43
36	Contribution of deep dark fixation processes to overall CO ₂ incorporation and large vertical changes of microbial populations in stratified karstic lakes. <i>Aquatic Sciences</i> , 2012, 74, 61-75.	0.6	40

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37	Effect of Carotenoid Biosynthesis Inhibition on the Chlorosome Organization in <i>Chlorobium phaeobacteroides</i> Strain CL1401. <i>Photochemistry and Photobiology</i> , 2000, 71, 715-723.	1.3	39
38	Flow cytometric identification and enumeration of photosynthetic sulfur bacteria and potential for ecophysiological studies at the single-cell level. <i>Environmental Microbiology</i> , 2007, 9, 1969-1985.	1.8	38
39	Shifts in microbial community structure and function in light- and dark-grown biofilms driven by warming. <i>Environmental Microbiology</i> , 2014, 16, 2550-2567.	1.8	38
40	Faecal microbiota and antibiotic resistance genes in migratory waterbirds with contrasting habitat use. <i>Science of the Total Environment</i> , 2021, 783, 146872.	3.9	38
41	Dry habitats sustain high CO ₂ emissions from temporary ponds across seasons. <i>Scientific Reports</i> , 2018, 8, 3015.	1.6	35
42	High-quality treated wastewater causes remarkable changes in natural microbial communities and <i>int1</i> gene abundance. <i>Water Research</i> , 2019, 167, 114895.	5.3	33
43	Identification of the bacteriochlorophyll homologues of <i>Chlorobium phaeobacteroides</i> strain UdG6053 grown at low light intensity. <i>Photosynthesis Research</i> , 2001, 70, 221-230.	1.6	32
44	Control of sulfide and methane production in anaerobic sewer systems by means of Downstream Nitrite Dosage. <i>Science of the Total Environment</i> , 2016, 550, 1116-1125.	3.9	32
45	Detection and quantification of the plasmid-mediated <i>mcr-1</i> gene conferring colistin resistance in wastewater. <i>International Journal of Antimicrobial Agents</i> , 2017, 50, 734-736.	1.1	32
46	Fingerprinting the genetic diversity of the biotin carboxylase gene (<i>accC</i>) in aquatic ecosystems as a potential marker for studies of carbon dioxide assimilation in the dark. <i>Environmental Microbiology</i> , 2008, 10, 2527-2536.	1.8	31
47	Active bacteria and archaea cells fixing bicarbonate in the dark along the water column of a stratified eutrophic lagoon. <i>FEMS Microbiology Ecology</i> , 2011, 77, 370-384.	1.3	31
48	The relevance of environment vs. composition on dissolved organic matter degradation in freshwaters. <i>Limnology and Oceanography</i> , 2021, 66, 306-320.	1.6	31
49	Occurrence of new bacteriochlorophyll d forms in natural populations of green photosynthetic sulfur bacteria. <i>FEMS Microbiology Ecology</i> , 1998, 26, 257-267.	1.3	30
50	The dynamics of biofilm bacterial communities is driven by flow wax and wane in a temporary stream. <i>Limnology and Oceanography</i> , 2014, 59, 2057-2067.	1.6	30
51	Predation impact of ciliated and flagellated protozoa during a summer bloom of brown sulfur bacteria in a meromictic coastal lake. <i>FEMS Microbiology Ecology</i> , 2009, 70, 42-53.	1.3	29
52	Unraveling the potential of a combined nitrification-anammox biomass towards the biodegradation of pharmaceutically active compounds. <i>Science of the Total Environment</i> , 2018, 624, 722-731.	3.9	25
53	Fast energy transfer between BChl d and BChl c in chlorosomes of the green sulfur bacterium <i>Chlorobium limicola</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1457, 71-80.	0.5	24
54	Antimicrobial Resistance and Bacteriophages: An Overlooked Intersection in Water Disinfection. <i>Trends in Microbiology</i> , 2021, 29, 517-527.	3.5	24

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55	Nanosecond Laser Photolysis Studies of Chlorosomes and Artificial Aggregates Containing Bacteriochlorophyll <i>e</i> : Evidence for the Proximity of Carotenoids and Bacteriochlorophyll <i>a</i> in Chlorosomes from <i>Chlorobium phaeobacteroides</i> strain CL1401. <i>Photochemistry and Photobiology</i> , 2000, 72, 669.	1.3	24
56	Characterization of the chlorosome antenna of the filamentous anoxygenic phototrophic bacterium <i>Chloronema</i> sp. strain UdG9001. <i>Archives of Microbiology</i> , 2003, 180, 417-426.	1.0	22
57	Diversity of freshwater <i>ε</i> -Proteobacteria and dark inorganic carbon fixation in the sulphidic redoxcline of a meromictic karstic lake. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv086.	1.3	22
58	Signature pigments of green sulfur bacteria in lower Pleistocene deposits from the Banyoles lacustrine area (Spain). <i>Journal of Paleolimnology</i> , 2005, 34, 271-280.	0.8	21
59	Effect of carotenoid deficiency on cells and chlorosomes of <i>Chlorobium phaeobacteroides</i> . <i>Archives of Microbiology</i> , 2001, 175, 226-233.	1.0	20
60	Quantification of the Effect of Nonphotochemical Quenching on the Determination of <i>In Vivo</i> Chl <i>a</i> from Phytoplankton Along the Water Column of a Freshwater Reservoir. <i>Photochemistry and Photobiology</i> , 2009, 85, 321-331.	1.3	20
61	High Bacterial Diversity and Phylogenetic Novelty in Dark Euxinic Freshwaters Analyzed by 16S Tag Community Profiling. <i>Microbial Ecology</i> , 2016, 71, 566-574.	1.4	18
62	Title is missing!. <i>Photosynthesis Research</i> , 1999, 59, 231-241.	1.6	17
63	Light responses in the green sulfur bacterium <i>Prosthecochloris aestuarii</i> : changes in prosthecae length, ultrastructure, and antenna pigment composition. <i>Archives of Microbiology</i> , 2001, 176, 278-284.	1.0	17
64	Specific Archaeal Communities are Selected on the Root Surfaces of <i>Ruppia</i> spp. and <i>Phragmites australis</i> . <i>Wetlands</i> , 2014, 34, 403-411.	0.7	17
65	Effect of Urban Wastewater Discharge on the Abundance of Antibiotic Resistance Genes and Antibiotic-Resistant <i>Escherichia coli</i> in Two Italian Rivers. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 6813.	1.2	16
66	Dynamics of SARS-CoV-2 Alpha (B.1.1.7) variant spread: The wastewater surveillance approach. <i>Environmental Research</i> , 2022, 208, 112720.	3.7	16
67	Growth-rate-dependent bacteriochlorophyll <i>c</i> / <i>d</i> ratio in the antenna of <i>Chlorobium limicola</i> strain UdG6040. <i>Archives of Microbiology</i> , 1999, 171, 350-354.	1.0	15
68	Abundance and Co-Distribution of Widespread Marine Archaeal Lineages in Surface Sediments of Freshwater Water Bodies across the Iberian Peninsula. <i>Microbial Ecology</i> , 2017, 74, 776-787.	1.4	15
69	Temporal variability of <i>Chlorobium phaeobacteroides</i> antenna pigments in a meromictic karstic lake. <i>Aquatic Microbial Ecology</i> , 1999, 17, 121-129.	0.9	15
70	Vertical distribution of photosynthetic sulphur bacteria linked to saline gradients in Lake 'El Tobar' (Cuenca, Spain). <i>Aquatic Microbial Ecology</i> , 1999, 20, 299-303.	0.9	14
71	Effect of carotenoid biosynthesis inhibition on the chlorosome organization in <i>Chlorobium phaeobacteroides</i> strain CL1401. <i>Photochemistry and Photobiology</i> , 2000, 71, 715-23.	1.3	13
72	Bacteriochlorophyll <i>e</i> Monomers, but Not Aggregates, Sensitize Singlet Oxygen: Implications for a Self-photoprotection Mechanism in Chlorosomes. <i>Photochemistry and Photobiology</i> , 2002, 76, 373.	1.3	13

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73	Microbial Ecology of Lake Kivu. , 2012, , 85-105.		12
74	New phylotypes of mesophilic filamentous anoxygenic phototrophic bacteria enriched from sulfide-containing environments. Environmental Microbiology Reports, 2009, 1, 86-93.	1.0	8
75	Lifestyle preferences drive the structure and diversity of bacterial and archaeal communities in a small riverine reservoir. Scientific Reports, 2020, 10, 11288.	1.6	8
76	Global dispersal and potential sources of antibiotic resistance genes in atmospheric remote depositions. Environment International, 2022, 160, 107077.	4.8	8
77	Variability of the photosynthetic antenna of a Pelodictyon clathratiforme population from a freshwater holomictic pond. FEMS Microbiology Ecology, 2001, 37, 11-19.	1.3	7
78	Phosphorus deficiency and kinetics of alkaline phosphatase in isolates and natural populations of phototrophic sulphur bacteria. FEMS Microbiology Ecology, 2010, 73, no-no.	1.3	6
79	Maintenance of previously uncultured freshwater archaea from anoxic waters under laboratory conditions. Antonie Van Leeuwenhoek, 2011, 99, 403-408.	0.7	6
80	Metabolic versatility of freshwater sedimentary archaea feeding on different organic carbon sources. PLoS ONE, 2020, 15, e0231238.	1.1	6
81	Metal contaminations impact archaeal community composition, abundance and function in remote alpine lakes. Environmental Microbiology, 2018, 20, 2422-2437.	1.8	5
82	Genome analysis of a new Escherichia phage vB_EcoM_C2-3 with lytic activity against multidrug-resistant Escherichia coli. Virus Research, 2022, 307, 198623.	1.1	5
83	A universal bacterial inoculum for dissolved organic carbon biodegradation experiments in freshwaters. Limnology and Oceanography: Methods, 2018, 16, 421-433.	1.0	4
84	Nanosecond Laser Photolysis Studies of Chlorosomes and Artificial Aggregates Containing Bacteriochlorophyll e: Evidence for the Proximity of Carotenoids and Bacteriochlorophyll a in Chlorosomes from Chlorobium phaeobacteroides strain CL1401A. Photochemistry and Photobiology, 2007, 72, 669-675.	1.3	3
85	Side effects of free nitrous acid on the resistome and mobilome. Chemical Engineering Journal, 2021, 405, 126657.	6.6	3
86	Phylogenetic characterization and quantification of ammonia-oxidizing archaea and bacteria from Lake Kivu in a long-term microcosm incubation. International Microbiology, 2013, 16, 177-89.	1.1	3
87	Impact of nitrate addition on the resistome and mobilome from a full-scale sewer. Chemical Engineering Journal, 2022, 439, 135653.	6.6	3
88	Water safety screening via multiplex LAMP-Au-nanoprobe integrated approach. Science of the Total Environment, 2020, 741, 140447.	3.9	2
89	Application of Microcosm and Mesocosm Experiments to Pollutant Effects in Biofilms. Springer Protocols, 2015, , 135-151.	0.1	1
90	Collection and Processing of River Organisms and Water Column Organisms. Springer Protocols, 2015, , 219-228.	0.1	1

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91	Bacteriochlorophyll e Monomers, but Not Aggregates, Sensitize Singlet Oxygen: Implications for a Self-photoprotection Mechanism in Chlorosomes. <i>Photochemistry and Photobiology</i> , 2007, 76, 373-380.	1.3	0
92	New phlotypes of mesophilic filamentous anoxygenic phototrophic bacteria enriched from sulfide-containing environments. <i>Environmental Microbiology Reports</i> , 2009, 1, 169-169.	1.0	0
93	Occurrence et devenir des polluants Émergents (antibiotiques) dans un aquifère alluvial et leur influence sur les bactéries multi-résistantes (Bas-Fluvié, Catalogne). <i>Houille Blanche</i> , 2018, 104, 47-52.	0.3	0