

Carles M Borrego

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93
papers

3,684
citations

32
h-index

59
g-index

93
ext. papers

4,477
ext. citations

6
avg, IF

5.56
L-index

#	Paper	IF	Citations
93	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	12.5	844
92	The role of biofilms as environmental reservoirs of antibiotic resistance. <i>Frontiers in Microbiology</i> , 2015 , 6, 1216	5.7	207
91	Occurrence and persistence of antibiotic resistance genes in river biofilms after wastewater inputs in small rivers. <i>Environmental Pollution</i> , 2016 , 210, 121-8	9.3	106
90	Separation of bacteriochlorophyll homologues from green photosynthetic sulfur bacteria by reversed-phase HPLC. <i>Photosynthesis Research</i> , 1994 , 41, 157-64	3.7	91
89	Metagenomic analysis reveals that bacteriophages are reservoirs of antibiotic resistance genes. <i>International Journal of Antimicrobial Agents</i> , 2016 , 48, 163-7	14.3	89
88	Exploring the contribution of bacteriophages to antibiotic resistance. <i>Environmental Pollution</i> , 2017 , 220, 981-984	9.3	81
87	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	3.7	81
86	High archaeal richness in the water column of a freshwater sulfurous karstic lake along an interannual study. <i>FEMS Microbiology Ecology</i> , 2008 , 66, 331-42	4.3	78
85	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, 6853-63	4.8	75
84	Connecting biodiversity and potential functional role in modern euxinic environments by microbial metagenomics. <i>ISME Journal</i> , 2015 , 9, 1648-61	11.9	73
83	Light intensity effects on pigment composition and organisation in the green sulfur bacterium <i>Chlorobium tepidum</i> . <i>Photosynthesis Research</i> , 1999 , 59, 159-166	3.7	73
82	Determination of the topography and biometry of chlorosomes by atomic force microscopy. <i>Photosynthesis Research</i> , 2002 , 71, 83-90	3.7	72
81	Insights in the ecology and evolutionary history of the Miscellaneous Crenarchaeotic Group lineage. <i>ISME Journal</i> , 2016 , 10, 665-77	11.9	70
80	Sewers as potential reservoirs of antibiotic resistance. <i>Science of the Total Environment</i> , 2017 , 605-606, 1047-1054	10.2	70
79	Abundance of antibiotic resistance genes in five municipal wastewater treatment plants in the Monastir Governorate, Tunisia. <i>Environmental Pollution</i> , 2016 , 219, 353-358	9.3	69
78	Internal structure of chlorosomes from brown-colored chlorobium species and the role of carotenoids in their assembly. <i>Biophysical Journal</i> , 2006 , 91, 1433-40	2.9	65
77	Availability of glucose and light modulates the structure and function of a microbial biofilm. <i>FEMS Microbiology Ecology</i> , 2009 , 69, 27-42	4.3	59

76	Stream Biofilm Responses to Flow Intermittency: From Cells to Ecosystems. <i>Frontiers in Environmental Science</i> , 2016 , 4,	4.8	59
75	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	10.2	58
74	Pelagic photoferrotrophy and iron cycling in a modern ferruginous basin. <i>Scientific Reports</i> , 2015 , 5, 13803	4.9	57
73	Antibiotic resistance along an urban river impacted by treated wastewaters. <i>Science of the Total Environment</i> , 2018 , 628-629, 453-466	10.2	55
72	The molar extinction coefficient of bacteriochlorophyll e and the pigment stoichiometry in <i>Chlorobium phaeobacteroides</i> . <i>Photosynthesis Research</i> , 1999 , 60, 257-264	3.7	52
71	Implications of Downstream Nitrate Dosage in anaerobic sewers to control sulfide and methane emissions. <i>Water Research</i> , 2015 , 68, 522-32	12.5	48
70	Emerging contaminants and nutrients synergistically affect the spread of class 1 integron-integrase (intI1) and sul1 genes within stable streambed bacterial communities. <i>Water Research</i> , 2018 , 138, 77-85	12.5	44
69	Marked seasonality of aerobic anoxygenic phototrophic bacteria in the coastal NW Mediterranean Sea as revealed by cell abundance, pigment concentration and pyrosequencing of pufM gene. <i>Environmental Microbiology</i> , 2014 , 16, 2953-65	5.2	41
68	Occurrence and persistence of carbapenemases genes in hospital and wastewater treatment plants and propagation in the receiving river. <i>Journal of Hazardous Materials</i> , 2018 , 358, 33-43	12.8	41
67	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,	4.3	35
66	Changes in Microbial Biofilm Communities during Colonization of Sewer Systems. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 7271-80	4.8	35
65	Wastewater pollution differently affects the antibiotic resistance gene pool and biofilm bacterial communities across streambed compartments. <i>Molecular Ecology</i> , 2017 , 26, 5567-5581	5.7	35
64	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	3.6	33
63	Real-time PCR assays for the detection and quantification of carbapenemase genes (bla ₁ , bla ₂ , and bla ₃) in environmental samples. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 6710-6714	5.1	32
62	Abundance of carbapenemase genes (bla ₁ , bla ₂ and bla ₃) in wastewater effluents from Tunisian hospitals. <i>Environmental Pollution</i> , 2017 , 229, 371-374	9.3	32
61	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	12.8	32
60	Metagenomic exploration reveals a marked change in the river resistome and mobilome after treated wastewater discharges. <i>Environmental Pollution</i> , 2018 , 234, 538-542	9.3	32
59	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, 1969-85	5.2	30

58	Shifts in microbial community structure and function in light- and dark-grown biofilms driven by warming. <i>Environmental Microbiology</i> , 2014 , 16, 2550-67	5.2	29
57	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	4.3	28
56	Fingerprinting the genetic diversity of the biotin carboxylase gene (accC) in aquatic ecosystems as a potential marker for studies of carbon dioxide assimilation in the dark. <i>Environmental Microbiology</i> , 2008 , 10, 2527-36	5.2	28
55	Identification of the bacteriochlorophyll homologues of Chlorobium phaeobacteroides strain UdG6053 grown at low light intensity. <i>Photosynthesis Research</i> , 2001 , 70, 221-30	3.7	28
54	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	3.7	27
53	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	2.5	26
52	Detection and quantification of the plasmid-mediated mcr-1 gene conferring colistin resistance in wastewater. <i>International Journal of Antimicrobial Agents</i> , 2017 , 50, 734-736	14.3	26
51	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	10.2	25
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	4.8	25
49	Occurrence of new bacteriochlorophyll d forms in natural populations of green photosynthetic sulfur bacteria. <i>FEMS Microbiology Ecology</i> , 1998 , 26, 257-267	4.3	25
48	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	10.2	25
47	High-quality treated wastewater causes remarkable changes in natural microbial communities and intl1 gene abundance. <i>Water Research</i> , 2019 , 167, 114895	12.5	23
46	Fast energy transfer between BChl d and BChl c in chlorosomes of the green sulfur bacterium Chlorobium limicola. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000 , 1457, 71-80	4.6	23
45	Dry habitats sustain high CO emissions from temporary ponds across seasons. <i>Scientific Reports</i> , 2018 , 8, 3015	4.9	22
44	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, 370-84	4.3	21
43	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 CL1401. <i>Photochemistry and Photobiology</i> , 2009 , 79, 112-21	3.6	21
42	Quantification of the effect of nonphotochemical quenching on the determination of in vivo chl a from phytoplankton along the water column of a freshwater reservoir. <i>Photochemistry and Photobiology</i> , 2009 , 85, 321-31	3.6	20
41	Effect of carotenoid deficiency on cells and chlorosomes of Chlorobium phaeobacteroides. <i>Archives of Microbiology</i> , 2001 , 175, 226-33	3	20

40	Characterization of the chlorosome antenna of the filamentous anoxygenic phototrophic bacterium <i>Chloronema</i> sp. strain UdG9001. <i>Archives of Microbiology</i> , 2003 , 180, 417-26	3	19
39	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	10.2	18
38	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	2.1	18
37	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, 278-84	3	17
36	Evidence for spatially separate bacteriochlorophyll c and bacteriochlorophyll d pools within the chlorosomal aggregate of the green sulfur bacterium <i>Chlorobium limicola</i> . <i>Photosynthesis Research</i> , 1999 , 59, 231-241	3.7	17
35	Diversity of freshwater Epsilonproteobacteria and dark inorganic carbon fixation in the sulphidic redoxcline of a meromictic karstic lake. <i>FEMS Microbiology Ecology</i> , 2015 , 91,	4.3	16
34	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	1.7	16
33	Growth-rate-dependent bacteriochlorophyll c/d ratio in the antenna of <i>Chlorobium limicola</i> strain UdG6040. <i>Archives of Microbiology</i> , 1999 , 171, 350-354	3	15
32	Temporal variability of <i>Chlorobium phaeobacteroides</i> antenna pigments in a meromictic karstic lake. <i>Aquatic Microbial Ecology</i> , 1999 , 17, 121-129	1.1	14
31	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	3.6	13
30	Bacteriochlorophyll e monomers, but not aggregates, sensitize singlet oxygen: implications for a self-photoprotection mechanism in chlorosomes. <i>Photochemistry and Photobiology</i> , 2002 , 76, 373-80	3.6	12
29	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	4.4	11
28	Antimicrobial Resistance and Bacteriophages: An Overlooked Intersection in Water Disinfection. <i>Trends in Microbiology</i> , 2021 , 29, 517-527	12.4	11
27	Microbial Ecology of Lake Kivu 2012 , 85-105		8
26	Vertical distribution of photosynthetic sulphur bacteria linked to saline gradients in Lake Uel TobarU (Cuenca, Spain). <i>Aquatic Microbial Ecology</i> , 1999 , 20, 299-303	1.1	8
25	Faecal microbiota and antibiotic resistance genes in migratory waterbirds with contrasting habitat use. <i>Science of the Total Environment</i> , 2021 , 783, 146872	10.2	8
24	New phylotypes of mesophilic filamentous anoxygenic phototrophic bacteria enriched from sulfide-containing environments. <i>Environmental Microbiology Reports</i> , 2009 , 1, 86-93	3.7	7
23	Maintenance of previously uncultured freshwater archaea from anoxic waters under laboratory conditions. <i>Antonie Van Leeuwenhoek</i> , 2011 , 99, 403-8	2.1	6

22	Variability of the photosynthetic antenna of a <i>Pelodictyon clathratiforme</i> population from a freshwater holomictic pond. <i>FEMS Microbiology Ecology</i> , 2001 , 37, 11-19	4.3	6
21	The relevance of environment vs. composition on dissolved organic matter degradation in freshwaters. <i>Limnology and Oceanography</i> , 2021 , 66, 306-320	4.8	6
20	High Bacterial Diversity and Phylogenetic Novelty in Dark Euxinic Freshwaters Analyzed by 16S Tag Community Profiling. <i>Microbial Ecology</i> , 2016 , 71, 566-74	4.4	5
19	Dynamics of SARS-CoV-2 Alpha (B.1.1.7) variant spread: The wastewater surveillance approach.. <i>Environmental Research</i> , 2022 , 208, 112720	7.9	5
18	Effect of Urban Wastewater Discharge on the Abundance of Antibiotic Resistance Genes and Antibiotic-Resistant in Two Italian Rivers. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	5
17	Phosphorus deficiency and kinetics of alkaline phosphatase in isolates and natural populations of phototrophic sulphur bacteria. <i>FEMS Microbiology Ecology</i> , 2010 , 73, 243-53	4.3	4
16	Metal contaminations impact archaeal community composition, abundance and function in remote alpine lakes. <i>Environmental Microbiology</i> , 2018 , 20, 2422-2437	5.2	3
15	A universal bacterial inoculum for dissolved organic carbon biodegradation experiments in freshwaters. <i>Limnology and Oceanography: Methods</i> , 2018 , 16, 421-433	2.6	3
14	Nanosecond Laser Photolysis Studies of Chlorosomes and Artificial Aggregates Containing Bacteriochlorophyll e: Evidence for the Proximity of Carotenoids and Bacteriochlorophyll a in Chlorosomes from <i>Chlorobium phaeobacteroides</i> strain CL1401¶. <i>Photochemistry and Photobiology</i> , 2007 , 72, 669-675	3.6	3
13	Phylogenetic characterization and quantification of ammonia-oxidizing archaea and bacteria from Lake Kivu in a long-term microcosm incubation. <i>International Microbiology</i> , 2013 , 16, 177-89	3	3
12	Lifestyle preferences drive the structure and diversity of bacterial and archaeal communities in a small riverine reservoir. <i>Scientific Reports</i> , 2020 , 10, 11288	4.9	3
11	Side effects of free nitrous acid on the sewer resistome and mobilome. <i>Chemical Engineering Journal</i> , 2021 , 405, 126657	14.7	3
10	Metabolic versatility of freshwater sedimentary archaea feeding on different organic carbon sources. <i>PLoS ONE</i> , 2020 , 15, e0231238	3.7	2
9	Collection and Processing of River Organisms and Water Column Organisms. <i>Springer Protocols</i> , 2015 , 219-228	0.3	1
8	Genome analysis of a new <i>Escherichia</i> phage vB_EcoM_C2-3 with lytic activity against multidrug-resistant <i>Escherichia coli</i> . <i>Virus Research</i> , 2022 , 307, 198623	6.4	1
7	Global dispersal and potential sources of antibiotic resistance genes in atmospheric remote depositions.. <i>Environment International</i> , 2022 , 160, 107077	12.9	1
6	Water safety screening via multiplex LAMP-Au-nanoprobe integrated approach. <i>Science of the Total Environment</i> , 2020 , 741, 140447	10.2	0
5	Impact of nitrate addition on the resistome and mobilome from a full-scale sewer. <i>Chemical Engineering Journal</i> , 2022 , 439, 135653	14.7	0

- 4 Application of Microcosm and Mesocosm Experiments to Pollutant Effects in Biofilms. *Springer Protocols*, **2015**, 135-151 0.3
- 3 New phylotypes of mesophilic filamentous anoxygenic phototrophic bacteria enriched from sulfide-containing environments. *Environmental Microbiology Reports*, **2009**, 1, 169-169 3.7
- 2 Bacteriochlorophyll e Monomers, but Not Aggregates, Sensitize Singlet Oxygen: Implications for a Self-photoprotection Mechanism in Chlorosomes. *Photochemistry and Photobiology*, **2007**, 76, 373-380 3.6
- 1 Occurrence et devenir des polluants émergents (antibiotiques) dans un aquifère alluvial et leur influence sur les bactéries multi-résistantes (Bas-Fluvi-Catalogne). *Houille Blanche*, **2018**, 104, 47-52 0.3