

Carlos A. Arias

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

3,270
citations

29
h-index

56
g-index

85
ext. papers

3,731
ext. citations

5.5
avg, IF

5.37
L-index

#	Paper	IF	Citations
83	Nature-based solutions coupled with advanced technologies: An opportunity for decentralized water reuse in cities. <i>Journal of Cleaner Production</i> , 2022 , 340, 130660	10.3	4
82	Sustained Phosphorus Removal by Calcareous Materials in Long-Term (Two Years) Column Experiment. <i>Water (Switzerland)</i> , 2022 , 14, 682	3	
81	Reclamation of Treated Wastewater for Irrigation in Chile: Perspectives of the Current State and Challenges. <i>Water (Switzerland)</i> , 2022 , 14, 627	3	0
80	Physicochemical and Biological Contribution of Native Macrophytes in the Constructed Wetlands to Treat Municipal Wastewater: A Pilot-Scale Experiment in a Sub-Tropical Climate Region. <i>Recycling</i> , 2022 , 7, 8	3.2	1
79	Microbial Electrochemically Assisted Treatment Wetlands: Current Flow Density as a Performance Indicator in Real-Scale Systems in Mediterranean and Northern European Locations.. <i>Frontiers in Microbiology</i> , 2022 , 13, 843135	5.7	1
78	The Effect of Sol-Gel Coatings on the Phosphorus (P) Adsorption Capacity of Calcareous Materials for Use in Water Treatment. <i>Water (Switzerland)</i> , 2022 , 14, 3	3	1
77	Wastewater-Fertigated Short-Rotation Coppice, a Combined Scheme of Wastewater Treatment and Biomass Production: A State-of-the-Art Review. <i>Forests</i> , 2022 , 13, 810	2.8	1
76	Phosphorus Recovery from Wastewater: Bioavailability of P Bound to Calcareous Material for Maize (<i>Zea Mays</i> L.) Growth. <i>Recycling</i> , 2021 , 6, 25	3.2	2
75	Performance Comparison of Vertical Flow Treatment Wetlands Planted with the Ornamental Plant <i>Zantedeschia aethiopica</i> Operated under Arid and Mediterranean Climate Conditions. <i>Water (Switzerland)</i> , 2021 , 13, 1478	3	4
74	Evaluation of Bed Depth Reduction, Media Change, and Partial Saturation as Combined Strategies to Modify in Vertical Treatment Wetlands. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	3
73	Preface: Wetland ecosystems functions and use in a changing climate. <i>Hydrobiologia</i> , 2021 , 848, 3255	2.4	0
72	Effect of intermittent induced aeration on nitrogen removal and denitrifying-bacterial community structure in Cork and gravel vertical flow pilot-scale treatment wetlands. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021 , 56, 1121-1130	2.3	0
71	Nature based solutions for winery wastewater valorisation. <i>Ecological Engineering</i> , 2021 , 169, 106311	3.9	2
70	Influence of water quality parameters on the removal of triclosan and ibuprofen in vertical subsurface flow constructed wetlands using multivariate analysis. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101846	7	2
69	Enhanced degradation of hydrocarbons in constructed wetlands aided with nutrients, surfactant, and aeration.. <i>International Journal of Phytoremediation</i> , 2021 , 1-10	3.9	
68	Potential Use of Plant Biomass from Treatment Wetland Systems for Producing Biofuels through a Biocrude Green-Biorefining Platform. <i>Energies</i> , 2021 , 14, 8157	3.1	1
67	Constructed Wetlands in Latin America and the Caribbean: A Review of Experiences during the Last Decade. <i>Water (Switzerland)</i> , 2020 , 12, 1744	3	14

66	Novel bioelectrochemical strategies for domesticating the electron flow in constructed wetlands. <i>Science of the Total Environment</i> , 2020 , 735, 139522	10.2	14
65	Community level physiological profiling of microbial electrochemical-based constructed wetlands. <i>Science of the Total Environment</i> , 2020 , 721, 137761	10.2	11
64	Disinfection for decentralized wastewater reuse in rural areas through wetlands and solar driven onsite chlorination. <i>Science of the Total Environment</i> , 2020 , 721, 137595	10.2	9
63	Potential Application of Chilean Natural Zeolite as a Support Medium in Treatment Wetlands for Removing Ammonium and Phosphate from Wastewater. <i>Water (Switzerland)</i> , 2020 , 12, 1156	3	4
62	Proposal of competencies for engineering education to develop water infrastructure based on Nature-Based Solutions in the urban context. <i>Journal of Cleaner Production</i> , 2020 , 265, 121717	10.3	12
61	Constructed Wetlands for Industrial Wastewater Treatment and Removal of Nutrients 2020 , 559-587		1
60	Relationship between Polycyclic Aromatic Hydrocarbons in Sediments and Invertebrates of Natural and Artificial Stormwater Retention Ponds. <i>Water (Switzerland)</i> , 2020 , 12, 2020	3	2
59	Crushed Autoclaved Aerated Concrete (CAAC), a Potential Reactive Filter Medium for Enhancing Phosphorus Removal in Nature-Based Solutions Preliminary Batch Studies. <i>Water (Switzerland)</i> , 2019 , 11, 1442	3	3
58	Cork as a sustainable carbon source for nature-based solutions treating hydroponic wastewaters - Preliminary batch studies. <i>Science of the Total Environment</i> , 2019 , 650, 267-276	10.2	15
57	Microbial nitrate removal efficiency in groundwater polluted from agricultural activities with hybrid cork treatment wetlands. <i>Science of the Total Environment</i> , 2019 , 653, 723-734	10.2	21
56	Electroactive biofilm-based constructed wetland (EABB-CW): A mesocosm-scale test of an innovative setup for wastewater treatment. <i>Science of the Total Environment</i> , 2019 , 659, 796-806	10.2	38
55	Characterization of Hydrocarbon-Degrading Bacteria in Constructed Wetland Microcosms Used to Treat Crude Oil Polluted Water. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019 , 102, 358-364	3.7	13
54	Microbial community metabolic profiles in saturated constructed wetlands treating iohexol and ibuprofen. <i>Science of the Total Environment</i> , 2019 , 651, 1926-1934	10.2	17
53	Hydraulic and hydrological aspects of an evapotranspiration-constructed wetland combined system for household greywater treatment. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018 , 53, 493-500	2.3	15
52	Rethinking Intensification of Constructed Wetlands as a Green Eco-Technology for Wastewater Treatment. <i>Environmental Science & Technology</i> , 2018 , 52, 1693-1694	10.3	47
51	REAGRITECH: A Relevant Model of Sustainable Water Management. <i>Advances in Science, Technology and Innovation</i> , 2018 , 61-63	0.3	
50	Impacts of design configuration and plants on the functionality of the microbial community of mesocosm-scale constructed wetlands treating ibuprofen. <i>Water Research</i> , 2018 , 131, 228-238	12.5	38
49	Removal of the pesticide tebuconazole in constructed wetlands: Design comparison, influencing factors and modelling. <i>Environmental Pollution</i> , 2018 , 233, 71-80	9.3	38

48	Methodologies for the analysis of pesticides and pharmaceuticals in sediments and plant tissue. <i>Analytical Methods</i> , 2018 , 10, 3791-3803	3.2	1
47	Microbial Electrochemical Technologies for Wastewater Treatment: Principles and Evolution from Microbial Fuel Cells to Bioelectrochemical-Based Constructed Wetlands. <i>Water (Switzerland)</i> , 2018 , 10, 1128	3	61
46	Application of horizontal flow constructed wetland and solar driven disinfection technologies for wastewater treatment in India. <i>Water Practice and Technology</i> , 2018 , 13, 469-480	0.9	11
45	Comparison of removal efficiency of pathogenic microbes in four types of wastewater treatment systems in Denmark. <i>Ecological Engineering</i> , 2018 , 124, 1-6	3.9	14
44	New insights into the effects of support matrix on the removal of organic micro-pollutants and the microbial community in constructed wetlands. <i>Environmental Pollution</i> , 2018 , 240, 699-708	9.3	23
43	Hydrolytic anaerobic reactor and aerated constructed wetland systems for municipal wastewater treatment - HIGHWET project. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 209-219	2.6	8
42	Ibuprofen and iohexol removal in saturated constructed wetland mesocosms. <i>Ecological Engineering</i> , 2017 , 98, 394-402	3.9	32
41	Constructed wetlands and solar-driven disinfection technologies for sustainable wastewater treatment and reclamation in rural India: SWINGS project. <i>Water Science and Technology</i> , 2017 , 76, 1474-1489	2.2	26
40	Enantioselective uptake, translocation and degradation of the chiral pesticides tebuconazole and imazalil by <i>Phragmites australis</i> . <i>Environmental Pollution</i> , 2017 , 229, 362-370	9.3	46
39	Functionality of microbial communities in constructed wetlands used for pesticide remediation: Influence of system design and sampling strategy. <i>Water Research</i> , 2017 , 110, 241-251	12.5	53
38	Effects of constructed wetland design on ibuprofen removal - A mesocosm scale study. <i>Science of the Total Environment</i> , 2017 , 609, 38-45	10.2	48
37	Vertical flow-constructed wetlands for domestic wastewater treatment under tropical conditions: effect of different design and operational parameters. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 199-208	2.6	35
36	Microbial community metabolic function in constructed wetland mesocosms treating the pesticides imazalil and tebuconazole. <i>Ecological Engineering</i> , 2017 , 98, 378-387	3.9	24
35	Constructed Wetlands for Industrial Wastewater Treatment and Removal of Nutrients. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2017 , 202-230	0.4	4
34	Removal of the pesticides imazalil and tebuconazole in saturated constructed wetland mesocosms. <i>Water Research</i> , 2016 , 91, 126-36	12.5	56
33	Phytoremediation of imazalil and tebuconazole by four emergent wetland plant species in hydroponic medium. <i>Chemosphere</i> , 2016 , 148, 459-66	8.4	55
32	Removal of the pharmaceuticals ibuprofen and iohexol by four wetland plant species in hydroponic culture: plant uptake and microbial degradation. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2890-8	5.1	45
31	TIC para la determinaci3n de los par3metros operacionales de humedales construidos dise1ados para el tratamiento de aguas contaminadas por nitratos. <i>Revista Ingenier3as Universidad De Medell3n</i> , 2016 , 15, 53-70	0.1	2

30	Pharmaceutical and personal care products in domestic wastewater and their removal in anaerobic treatment systems: Septic tank [Up flow anaerobic filter.. <i>Ingenieria E Investigacion</i> , 2016 , 36, 70-78	0.3	15
29	Microbial density and diversity in constructed wetland systems and the relation to pollutant removal efficiency. <i>Water Science and Technology</i> , 2016 , 73, 679-86	2.2	12
28	Design and performance evaluation of a highly loaded aerated treatment wetland managing effluents from a food processing industry in Denmark. <i>Water Practice and Technology</i> , 2015 , 10, 644-651 ^{0.9}	0.9	4
27	Microbial communities from different types of natural wastewater treatment systems: vertical and horizontal flow constructed wetlands and biofilters. <i>Water Research</i> , 2014 , 55, 304-12	12.5	140
26	Distribution of metals in fauna, flora and sediments of wet detention ponds and natural shallow lakes. <i>Ecological Engineering</i> , 2014 , 66, 43-51	3.9	18
25	Can root exudates from emergent wetland plants fuel denitrification in subsurface flow constructed wetland systems?. <i>Ecological Engineering</i> , 2013 , 61, 555-563	3.9	134
24	Modeling the eutrophication of two mature planted stormwater ponds for runoff control. <i>Ecological Engineering</i> , 2013 , 61, 601-613	3.9	10
23	Diversity of Aplochiton fishes (Galaxiidea) and the taxonomic resurrection of <i>A. marinus</i> . <i>PLoS ONE</i> , 2013 , 8, e71577	3.7	16
22	Improved urban stormwater treatment and pollutant removal pathways in amended wet detention ponds. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012 , 47, 1466-77	2.3	25
21	Musk fragrances, DEHP and heavy metals in a 20 years old sludge treatment reed bed system. <i>Water Research</i> , 2012 , 46, 3889-96	12.5	41
20	Characteristics of biosolids from sludge treatment wetlands for agricultural reuse. <i>Ecological Engineering</i> , 2012 , 40, 210-216	3.9	37
19	Carbon footprint of sludge treatment reed beds. <i>Ecological Engineering</i> , 2012 , 44, 298-302	3.9	24
18	Evaluation of aquatic plants for removing polar microcontaminants: a microcosm experiment. <i>Chemosphere</i> , 2012 , 88, 1257-64	8.4	120
17	Occurrence and behavior of emerging contaminants in surface water and a restored wetland. <i>Chemosphere</i> , 2012 , 88, 1083-9	8.4	101
16	Sorption media for stormwater treatment--a laboratory evaluation of five low-cost media for their ability to remove metals and phosphorus from artificial stormwater. <i>Water Environment Research</i> , 2012 , 84, 605-16	2.8	19
15	Bioenergy potential of <i>Ulva lactuca</i> : biomass yield, methane production and combustion. <i>Bioresource Technology</i> , 2011 , 102, 2595-604	11	298
14	Elimination and accumulation of polycyclic aromatic hydrocarbons in urban stormwater wet detention ponds. <i>Water Science and Technology</i> , 2011 , 64, 818-25	2.2	9
13	Filter bed systems treating domestic wastewater in the Nordic countries [Performance and reuse of filter media. <i>Ecological Engineering</i> , 2010 , 36, 1651-1659	3.9	62

12	Preliminary screening of small-scale domestic wastewater treatment systems for removal of pharmaceutical and personal care products. <i>Water Research</i> , 2009 , 43, 55-62	12.5	175
11	Removal of pharmaceuticals and personal care products (PPCPs) from urban wastewater in a pilot vertical flow constructed wetland and a sand filter. <i>Environmental Science & Technology</i> , 2007 , 41, 8171-7	10.3	194
10	Twenty years experience with constructed wetland systems in Denmark--what did we learn?. <i>Water Science and Technology</i> , 2007 , 56, 63-8	2.2	39
9	Recycling of treated effluents enhances removal of total nitrogen in vertical flow constructed wetlands. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005 , 40, 1431-43	2.3	47
8	The use of vertical flow constructed wetlands for on-site treatment of domestic wastewater: New Danish guidelines. <i>Ecological Engineering</i> , 2005 , 25, 491-500	3.9	312
7	Phosphorus adsorption maximum of sands for use as media in subsurface flow constructed reed beds as measured by the Langmuir isotherm. <i>Water Research</i> , 2003 , 37, 3390-400	12.5	195
6	Phosphorus removal by sands for use as media in subsurface flow constructed reed beds. <i>Water Research</i> , 2001 , 35, 1159-68	12.5	282
5	Reuse of Treated Municipal Wastewater from Constructed Wetlands for Cut Flowers Irrigation in Aeroponic Cultivation. <i>Ingenieria Y Universidad</i> , 24,	0.6	2
4	Microbial Electrochemical Technologies for Wastewater Treatment: Principles and Evolution from Microbial Fuel Cells to Bioelectrochemical-Based Constructed Wetlands		3
3	Growth dynamic of three different white willow clones used in a zero-discharge wastewater treatment system in the Sub-Mediterranean region - an early evaluation ⁹¹ , 260-267		4
2	WETWALL [®] an innovative design concept for the treatment of wastewater at an urban scale ¹⁰⁹ , 205-220		15
1	Microbial Community Function in Electroactive Biofilm-based Constructed Wetlands		3