Pedro N Carvalho

List of Publications by Year
in descending order

60 papers	2,537 citations	159585 30 h-index	197818 49 g-index
63 all docs	63 docs citations	63 times ranked	2802 citing authors

#	Article	IF	Citations
1	A review of plantâ€“pharmaceutical interactions: from uptake and effects in crop plants to phytoremediation in constructed wetlands. Environmental Science and Pollution Research, 2014, 21, 11729-11763.	5.3	229
2	Sanitation in constructed wetlands: A review on the removal of human pathogens and fecal indicators. Science of the Total Environment, 2016, 541, 8-22.	8.0	193
3	A review of nature-based solutions for urban water management in European circular cities: a critical assessment based on case studies and literature. Blue-Green Systems, 2020, 2, 112-136.	2.0	183
4	Microbial community dynamics associated with veterinary antibiotics removal in constructed wetlands microcosms. Bioresource Technology, 2015, 182, 26-33.	9.6	102
5	Microbial Electrochemical Technologies for Wastewater Treatment: Principles and Evolution from Microbial Fuel Cells to Bioelectrochemical-Based Constructed Wetlands. Water (Switzerland), 2018, 10, 1128.	2.7	91
6	Potential of constructed wetlands microcosms for the removal of veterinary pharmaceuticals from livestock wastewater. Bioresource Technology, 2013, 134, 412-416.	9.6	88
7	Functionality of microbial communities in constructed wetlands used for pesticide remediation: Influence of system design and sampling strategy. Water Research, 2017, 110, 241-251.	11.3	82
8	Potential of Phragmites australis for the removal of veterinary pharmaceuticals from aquatic media. Bioresource Technology, 2012, 116, 497-501.	9.6	73
9	Hydrothermal liquefaction of sewage sludge; energy considerations and fate of micropollutants during pilot scale processing. Water Research, 2020, 183, 116101.	11.3	73
10	Removal of the pesticides imazalil and tebuconazole in saturated constructed wetland mesocosms. Water Research, 2016, 91, 126-136.	11.3	70
11	Phytoremediation of imazalil and tebuconazole by four emergent wetland plant species in hydroponic medium. Chemosphere, 2016, 148, 459-466.	8.2	68
12	Effects of constructed wetland design on ibuprofen removal â€“ A mesocosm scale study. Science of the Total Environment, 2017, 609, 38-45.	8.0	64
13	Removal of the pharmaceuticals ibuprofen and iohexol by four wetland plant species in hydroponic culture: plant uptake and microbial degradation. Environmental Science and Pollution Research, 2016, 23, 2890-2898.	5.3	62
14	Removal of the pesticide tebuconazole in constructed wetlands: Design comparison, influencing factors and modelling. Environmental Pollution, 2018, 233, 71-80.	7.5	62
15	Electroactive biofilm-based constructed wetland (EABB-CW): A mesocosm-scale test of an innovative setup for wastewater treatment. Science of the Total Environment, 2019, 659, 796-806.	8.0	60
16	Enantioselective uptake, translocation and degradation of the chiral pesticides tebuconazole and imazalil by Phragmites australis. Environmental Pollution, 2017, 229, 362-370.	7.5	59
17	An expeditious method for the determination of organochlorine pesticides residues in estuarine sediments using microwave assisted pre-extraction and automated headspace solid-phase microextraction coupled to gas chromatographyâ€“mass spectrometry. Talanta, 2008, 76, 1124-1129.	5.5	53
18	Dose-dependent effects of acetate on the biodegradation of pharmaceuticals in moving bed biofilm reactors. Water Research, 2019, 159, 302-312.	11.3	52

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19	Organochlorine pesticides levels in Portuguese coastal areas. Chemosphere, 2009, 75, 595-600.	8.2	51
20	Ibuprofen and iohexol removal in saturated constructed wetland mesocosms. Ecological Engineering, 2017, 98, 394-402.	3.6	48
21	Impacts of design configuration and plants on the functionality of the microbial community of mesocosm-scale constructed wetlands treating ibuprofen. Water Research, 2018, 131, 228-238.	11.3	48
22	Management of Urban Waters with Nature-Based Solutions in Circular Citiesâ€"Exemplified through Seven Urban Circularity Challenges. Water (Switzerland), 2021, 13, 3334.	2.7	46
23	Enhanced removal of pharmaceuticals in a biofilter: Effects of manipulating co-degradation by carbon feeding. Chemosphere, 2019, 236, 124303.	8.2	45
24	Constructed Wetlands for Water Treatment: New Developments. Water (Switzerland), 2017, 9, 397.	2.7	40
25	Nature-based solutions addressing the water-energy-food nexus: Review of theoretical concepts and urban case studies. Journal of Cleaner Production, 2022, 338, 130652.	9.3	38
26	Activated sludge systems removal efficiency of veterinary pharmaceuticals from slaughterhouse wastewater. Environmental Science and Pollution Research, 2013, 20, 8790-8800.	5.3	35
27	Constructed wetlands and solar-driven disinfection technologies for sustainable wastewater treatment and reclamation in rural India: SWINGS project. Water Science and Technology, 2017, 76, 1474-1489.	2.5	33
28	Headspace solid-phase micro-extraction and gas chromatography-ion trap tandem mass spectrometry method for butyltin analysis in sediments: Optimization and validation. Microchemical Journal, 2007, 87, 147-153.	4.5	32
29	A headspace SPME-GC-ECD method suitable for determination of chlorophenols in water samples. Analytical and Bioanalytical Chemistry, 2011, 399, 2531-2538.	3.7	32
30	Microbial community metabolic function in constructed wetland mesocosms treating the pesticides imazalil and tebuconazole. Ecological Engineering, 2017, 98, 378-387.	3.6	32
31	New insights into the effects of support matrix on the removal of organic micro-pollutants and the microbial community in constructed wetlands. Environmental Pollution, 2018, 240, 699-708.	7.5	31
32	Concentration dependent degradation of pharmaceuticals in WWTP effluent by biofilm reactors. Water Research, 2020, 186, 116389.	11.3	30
33	Nature-based solutions coupled with advanced technologies: An opportunity for decentralized water reuse in cities. Journal of Cleaner Production, 2022, 340, 130660.	9.3	28
34	Simultaneous determination of several veterinary pharmaceuticals in effluents from urban, livestock and slaughterhouse wastewater treatment plants using a simple chromatographic method. Water Science and Technology, 2012, 66, 603-611.	2.5	26
35	Microbial community metabolic profiles in saturated constructed wetlands treating iohexol and ibuprofen. Science of the Total Environment, 2019, 651, 1926-1934.	8.0	23
36	Biodegradation kinetics of organic micropollutants and microbial community dynamics in a moving bed biofilm reactor. Chemical Engineering Journal, 2021, 415, 128963.	12.7	22

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37	Response of a tidal operated constructed wetland to sudden organic and ammonium loading changes in treating high strength artificial wastewater. Ecological Engineering, 2015, 82, 643-648.	3.6	20
38	Pathways of nitrobenzene degradation in horizontal subsurface flow constructed wetlands: Effect of intermittent aeration and glucose addition. Journal of Environmental Management, 2016, 166, 38-44.	7.8	20
39	Ability of salt marsh plants for TBT remediation in sediments. Environmental Science and Pollution Research, 2010, 17, 1279-1286.	5.3	19
40	Microbial density and diversity in constructed wetland systems and the relation to pollutant removal efficiency. Water Science and Technology, 2016, 73, 679-686.	2.5	19
41	â€œWETWALLâ€• an innovative design concept for the treatment of wastewater at an urban scale. , 0, 109, 205-220.		19
42	Towards a Cross-Sectoral View of Nature-Based Solutions for Enabling Circular Cities. Water (Switzerland), 2021, 13, 2352.	2.7	17
43	Application of SPME to the determination of alkylphenols and bisphenol A in cyanobacteria culture media. Analytical and Bioanalytical Chemistry, 2008, 391, 425-432.	3.7	15
44	Identification of more than 100 new compounds in the wastewater: Fate of polyethylene/polypropylene oxide copolymers and their metabolites in the aquatic environment. Science of the Total Environment, 2021, 761, 143228.	8.0	14
45	Butyltin levels in several Portuguese coastal areas. Environmental Monitoring and Assessment, 2009, 159, 183-190.	2.7	13
46	Can salt marsh plants influence levels and distribution of DDTs in estuarine areas?. Estuarine, Coastal and Shelf Science, 2011, 93, 415-419.	2.1	12
47	Multi-family methodologies for the analysis of veterinary pharmaceutical compounds in sediment and sludge samples: comparison among extraction techniques. Analytical Methods, 2013, 5, 6503.	2.7	11
48	Stabilization of Preliminary Anaerobically Digested Slurry in Post-Storage: Dynamics of Chemical Characteristics and Hygienic Quality. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	9
49	A comparison of the fate of diflufenican in agricultural sandy soil and gravel used in urban areas. Science of the Total Environment, 2020, 715, 136803.	8.0	8
50	First Report on Cyanotoxin (MC-LR) Removal from Surface Water by Multi-Soil-Layering (MSL) Eco-Technology: Preliminary Results. Water (Switzerland), 2021, 13, 1403.	2.7	8
51	Leaching of herbicidal residues from gravel surfaces â€" A lysimeter-based study comparing gravels with agricultural topsoil. Environmental Pollution, 2020, 266, 115225.	7.5	7
52	Design and performance evaluation of a highly loaded aerated treatment wetland managing effluents from a food processing industry in Denmark. Water Practice and Technology, 2015, 10, 644-651.	2.0	4
53	Constructed Wetlands and Phytoremediation as a Tool for Pharmaceutical Removal. Handbook of Environmental Chemistry, 2020, , 377.	0.4	4
54	Intracellular nitrate in sediments of an oxygen-deficient marine basin is linked to pelagic diatoms. FEMS Microbiology Ecology, 2018, 94, .	2.7	3

#	ARTICLE	IF	CITATIONS
55	Potential Use of Plant Biomass from Treatment Wetland Systems for Producing Biofuels through a Biocrude Green-Biorefining Platform. Energies, 2021, 14, 8157.	3.1	3
56	Constructed Wetlands for Livestock Wastewater Treatment: Antibiotics Removal and Effects on CWs Performance. , 2016, , 267-281.		1
57	Methodologies for the analysis of pesticides and pharmaceuticals in sediments and plant tissue. Analytical Methods, 2018, 10, 3791-3803.	2.7	1
58	Multi-Soil-Layering Technology: A New Approach to Remove Microcystis aeruginosa and Microcystins from Water. Water (Switzerland), 2022, 14, 686.	2.7	1
59	Stability of Chlorophenols and Their Acetylated Derivatives in Water: Sample Storage Procedures. Journal of AOAC INTERNATIONAL, 2014, 97, 179-182.	1.5	0
60	Nature-Based Solutions for the Mitigation of Persistent and Emerging Contaminants. Water (Switzerland), 2022, 14, 2105.	2.7	0