

Pedro N Carvalho

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Nature-based solutions coupled with advanced technologies: An opportunity for decentralized water reuse in cities. <i>Journal of Cleaner Production</i> , 2022, 340, 130660. | 9.3 | 28 |
| 2 | Nature-based solutions addressing the water-energy-food nexus: Review of theoretical concepts and urban case studies. <i>Journal of Cleaner Production</i> , 2022, 338, 130652. | 9.3 | 38 |
| 3 | Multi-Soil-Layering Technology: A New Approach to Remove <i>Microcystis aeruginosa</i> and Microcystins from Water. <i>Water (Switzerland)</i> , 2022, 14, 686. | 2.7 | 1 |
| 4 | Nature-Based Solutions for the Mitigation of Persistent and Emerging Contaminants. <i>Water (Switzerland)</i> , 2022, 14, 2105. | 2.7 | 0 |
| 5 | Identification of more than 100 new compounds in the wastewater: Fate of polyethylene/polypropylene oxide copolymers and their metabolites in the aquatic environment. <i>Science of the Total Environment</i> , 2021, 761, 143228. | 8.0 | 14 |
| 6 | First Report on Cyanotoxin (MC-LR) Removal from Surface Water by Multi-Soil-Layering (MSL) Eco-Technology: Preliminary Results. <i>Water (Switzerland)</i> , 2021, 13, 1403. | 2.7 | 8 |
| 7 | Biodegradation kinetics of organic micropollutants and microbial community dynamics in a moving bed biofilm reactor. <i>Chemical Engineering Journal</i> , 2021, 415, 128963. | 12.7 | 22 |
| 8 | Towards a Cross-Sectoral View of Nature-Based Solutions for Enabling Circular Cities. <i>Water (Switzerland)</i> , 2021, 13, 2352. | 2.7 | 17 |
| 9 | Management of Urban Waters with Nature-Based Solutions in Circular Cities—Exemplified through Seven Urban Circularity Challenges. <i>Water (Switzerland)</i> , 2021, 13, 3334. | 2.7 | 46 |
| 10 | 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 | 3 |
| 11 | Leaching of herbicidal residues from gravel surfaces – A lysimeter-based study comparing gravels with agricultural topsoil. <i>Environmental Pollution</i> , 2020, 266, 115225. | 7.5 | 7 |
| 12 | Concentration dependent degradation of pharmaceuticals in WWTP effluent by biofilm reactors. <i>Water Research</i> , 2020, 186, 116389. | 11.3 | 30 |
| 13 | Constructed Wetlands and Phytoremediation as a Tool for Pharmaceutical Removal. <i>Handbook of Environmental Chemistry</i> , 2020, , 377. | 0.4 | 4 |
| 14 | Hydrothermal liquefaction of sewage sludge; energy considerations and fate of micropollutants during pilot scale processing. <i>Water Research</i> , 2020, 183, 116101. | 11.3 | 73 |
| 15 | A comparison of the fate of diflufenican in agricultural sandy soil and gravel used in urban areas. <i>Science of the Total Environment</i> , 2020, 715, 136803. | 8.0 | 8 |
| 16 | A review of nature-based solutions for urban water management in European circular cities: a critical assessment based on case studies and literature. <i>Blue-Green Systems</i> , 2020, 2, 112-136. | 2.0 | 183 |
| 17 | Enhanced removal of pharmaceuticals in a biofilter: Effects of manipulating co-degradation by carbon feeding. <i>Chemosphere</i> , 2019, 236, 124303. | 8.2 | 45 |
| 18 | Dose-dependent effects of acetate on the biodegradation of pharmaceuticals in moving bed biofilm reactors. <i>Water Research</i> , 2019, 159, 302-312. | 11.3 | 52 |

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|----|--|------|-----------|
| 19 | 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. | 8.0 | 60 |
| 20 | Microbial community metabolic profiles in saturated constructed wetlands treating iohexol and ibuprofen. <i>Science of the Total Environment</i> , 2019, 651, 1926-1934. | 8.0 | 23 |
| 21 | 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. | 11.3 | 48 |
| 22 | Removal of the pesticide tebuconazole in constructed wetlands: Design comparison, influencing factors and modelling. <i>Environmental Pollution</i> , 2018, 233, 71-80. | 7.5 | 62 |
| 23 | 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. | 7.5 | 31 |
| 24 | Intracellular nitrate in sediments of an oxygen-deficient marine basin is linked to pelagic diatoms. <i>FEMS Microbiology Ecology</i> , 2018, 94, . | 2.7 | 3 |
| 25 | Methodologies for the analysis of pesticides and pharmaceuticals in sediments and plant tissue. <i>Analytical Methods</i> , 2018, 10, 3791-3803. | 2.7 | 1 |
| 26 | 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. | 2.7 | 91 |
| 27 | Ibuprofen and iohexol removal in saturated constructed wetland mesocosms. <i>Ecological Engineering</i> , 2017, 98, 394-402. | 3.6 | 48 |
| 28 | 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. | 2.5 | 33 |
| 29 | 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. | 7.5 | 59 |
| 30 | 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. | 11.3 | 82 |
| 31 | Effects of constructed wetland design on ibuprofen removal – A mesocosm scale study. <i>Science of the Total Environment</i> , 2017, 609, 38-45. | 8.0 | 64 |
| 32 | Stabilization of Preliminary Anaerobically Digested Slurry in Post-Storage: Dynamics of Chemical Characteristics and Hygienic Quality. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1. | 2.4 | 9 |
| 33 | Microbial community metabolic function in constructed wetland mesocosms treating the pesticides imazalil and tebuconazole. <i>Ecological Engineering</i> , 2017, 98, 378-387. | 3.6 | 32 |
| 34 | Constructed Wetlands for Water Treatment: New Developments. <i>Water (Switzerland)</i> , 2017, 9, 397. | 2.7 | 40 |
| 35 | Microbial density and diversity in constructed wetland systems and the relation to pollutant removal efficiency. <i>Water Science and Technology</i> , 2016, 73, 679-686. | 2.5 | 19 |
| 36 | Constructed Wetlands for Livestock Wastewater Treatment: Antibiotics Removal and Effects on CWs Performance. , 2016, , 267-281. | | 1 |

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|----|--|------|-----------|
| 37 | Removal of the pesticides imazalil and tebuconazole in saturated constructed wetland mesocosms. <i>Water Research</i> , 2016, 91, 126-136. | 11.3 | 70 |
| 38 | Phytoremediation of imazalil and tebuconazole by four emergent wetland plant species in hydroponic medium. <i>Chemosphere</i> , 2016, 148, 459-466. | 8.2 | 68 |
| 39 | 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, 2890-2898. | 5.3 | 62 |
| 40 | Pathways of nitrobenzene degradation in horizontal subsurface flow constructed wetlands: Effect of intermittent aeration and glucose addition. <i>Journal of Environmental Management</i> , 2016, 166, 38-44. | 7.8 | 20 |
| 41 | Sanitation in constructed wetlands: A review on the removal of human pathogens and fecal indicators. <i>Science of the Total Environment</i> , 2016, 541, 8-22. | 8.0 | 193 |
| 42 | 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. | 2.0 | 4 |
| 43 | Microbial community dynamics associated with veterinary antibiotics removal in constructed wetlands microcosms. <i>Bioresource Technology</i> , 2015, 182, 26-33. | 9.6 | 102 |
| 44 | Response of a tidal operated constructed wetland to sudden organic and ammonium loading changes in treating high strength artificial wastewater. <i>Ecological Engineering</i> , 2015, 82, 643-648. | 3.6 | 20 |
| 45 | Stability of Chlorophenols and Their Acetylated Derivatives in Water: Sample Storage Procedures. <i>Journal of AOAC INTERNATIONAL</i> , 2014, 97, 179-182. | 1.5 | 0 |
| 46 | A review of plant-pharmaceutical interactions: from uptake and effects in crop plants to phytoremediation in constructed wetlands. <i>Environmental Science and Pollution Research</i> , 2014, 21, 11729-11763. | 5.3 | 229 |
| 47 | Activated sludge systems removal efficiency of veterinary pharmaceuticals from slaughterhouse wastewater. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8790-8800. | 5.3 | 35 |
| 48 | Potential of constructed wetlands microcosms for the removal of veterinary pharmaceuticals from livestock wastewater. <i>Bioresource Technology</i> , 2013, 134, 412-416. | 9.6 | 88 |
| 49 | Multi-family methodologies for the analysis of veterinary pharmaceutical compounds in sediment and sludge samples: comparison among extraction techniques. <i>Analytical Methods</i> , 2013, 5, 6503. | 2.7 | 11 |
| 50 | Simultaneous determination of several veterinary pharmaceuticals in effluents from urban, livestock and slaughterhouse wastewater treatment plants using a simple chromatographic method. <i>Water Science and Technology</i> , 2012, 66, 603-611. | 2.5 | 26 |
| 51 | Potential of <i>Phragmites australis</i> for the removal of veterinary pharmaceuticals from aquatic media. <i>Bioresource Technology</i> , 2012, 116, 497-501. | 9.6 | 73 |
| 52 | Can salt marsh plants influence levels and distribution of DDTs in estuarine areas?. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 93, 415-419. | 2.1 | 12 |
| 53 | A headspace SPME-GC-ECD method suitable for determination of chlorophenols in water samples. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2531-2538. | 3.7 | 32 |
| 54 | Ability of salt marsh plants for TBT remediation in sediments. <i>Environmental Science and Pollution Research</i> , 2010, 17, 1279-1286. | 5.3 | 19 |

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|----|---|-----|-----------|
| 55 | Butyltin levels in several Portuguese coastal areas. <i>Environmental Monitoring and Assessment</i> , 2009, 159, 183-190. | 2.7 | 13 |
| 56 | Organochlorine pesticides levels in Portuguese coastal areas. <i>Chemosphere</i> , 2009, 75, 595-600. | 8.2 | 51 |
| 57 | Application of SPME to the determination of alkylphenols and bisphenol A in cyanobacteria culture media. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 425-432. | 3.7 | 15 |
| 58 | 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 chromatography-mass spectrometry. <i>Talanta</i> , 2008, 76, 1124-1129. | 5.5 | 53 |
| 59 | Headspace solid-phase micro-extraction and gas chromatography-ion trap tandem mass spectrometry method for butyltin analysis in sediments: Optimization and validation. <i>Microchemical Journal</i> , 2007, 87, 147-153. | 4.5 | 32 |
| 60 | “WETWALL” an innovative design concept for the treatment of wastewater at an urban scale. , 0, 109, 205-220. | | 19 |