

Diederik P L Rousseau

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,353
citations

218677

26
h-index

206112

48
g-index

58
all docs

58
docs citations

58
times ranked

2169
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Synthesis, characterization, and methylene blue adsorption isotherms of hydrochars derived from forestry waste and agro-residues. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 1809-1824. | 4.6 | 2 |
| 2 | Iron oxide coated sand (IOS): Scale-up analysis and full-scale application for phosphorus removal from goat farm wastewater. <i>Separation and Purification Technology</i> , 2022, 284, 120213. | 7.9 | 12 |
| 3 | Life cycle assessment of two decentralized water treatment systems combining a constructed wetland and a membrane based drinking water production system. <i>Resources, Conservation and Recycling</i> , 2022, 178, 106104. | 10.8 | 7 |
| 4 | Performance of a green wall (Total Value Wall [®] , [†]) at high greywater loading rates and Life Cycle Impact Assessment. <i>Science of the Total Environment</i> , 2022, 821, 153470. | 8.0 | 7 |
| 5 | Investigating the effect of Eh and pH on binding forms of Co, Cu, and Pb in wetland sediments from Zambia. <i>Journal of Environmental Management</i> , 2022, 319, 115543. | 7.8 | 9 |
| 6 | Decentralized grey and black water reuse by combining a vertical flow constructed wetland and membrane based potable water system: Full scale demonstration. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104688. | 6.7 | 23 |
| 7 | Roof runoff contamination: a review on pollutant nature, material leaching and deposition. <i>Reviews in Environmental Science and Biotechnology</i> , 2021, 20, 549-606. | 8.1 | 27 |
| 8 | Constructed wetlands operated as bioelectrochemical systems for the removal of organic micropollutants. <i>Chemosphere</i> , 2021, 271, 129593. | 8.2 | 27 |
| 9 | Hydrogen peroxide in bioelectrochemical systems negatively affects microbial current generation. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1463-1478. | 2.9 | 5 |
| 10 | Fate and removal of microplastics in unplanted lab-scale vertical flow constructed wetlands. <i>Science of the Total Environment</i> , 2021, 778, 146152. | 8.0 | 44 |
| 11 | Towards Water and Energy Self-Sufficiency: a Closed-Loop, Solar-Driven, Low-Tech Laundry Pilot Facility (LaundReCycle) for the Reuse of Laundry Wastewater. <i>Circular Economy and Sustainability</i> , 2021, 1, 1037-1051. | 5.5 | 2 |
| 12 | Model based analysis of carbon fluxes within microalgae-bacteria flocs using respirometric-titrimetric data. <i>Science of the Total Environment</i> , 2021, 784, 147048. | 8.0 | 6 |
| 13 | Validation of a simple and robust multi-residue gas chromatography-mass spectrometry method for the analysis of polycyclic aromatic hydrocarbons, phthalates and biocides in roofing material leachate and roof runoff. <i>Journal of Chromatography Open</i> , 2021, 1, 100007. | 2.2 | 2 |
| 14 | Total value wall: Full scale demonstration of a green wall for grey water treatment and recycling. <i>Journal of Environmental Management</i> , 2021, 298, 113489. | 7.8 | 12 |
| 15 | Roof runoff contamination: Establishing material-pollutant relationships and material benchmarking based on laboratory leaching tests. <i>Chemosphere</i> , 2021, 283, 131112. | 8.2 | 10 |
| 16 | Towards a general kinetic microalgae model: Extending a semi-deterministic green microalgae model for the cyanobacterium <i>Arthrospira platensis</i> and red alga <i>Porphyridium purpureum</i> . <i>Bioresource Technology</i> , 2021, 342, 125993. | 9.6 | 0 |
| 17 | Constructed Wetlands for Urban Wastewater Treatment: An Overview. , 2021, , . | | 0 |
| 18 | Disinfection of constructed wetland effluent by <i>in situ</i> electrochemical chlorine production for water reuse. <i>Environmental Science: Water Research and Technology</i> , 2021, 8, 98-107. | 2.4 | 4 |

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|----|---|-----|-----------|
| 19 | Case Studies of (Semi)Constructed Wetlands Treating Point and Non-point Pollutant Loads to Protect Downstream Natural Ecosystems. , 2021, , . | | 0 |
| 20 | Metals and metalloid in gold mine pit lakes and fish intake risk assessment, Burkina Faso. Environmental Geochemistry and Health, 2020, 42, 563-577. | 3.4 | 4 |
| 21 | Metal uptake by spontaneously grown <i>Typha domingensis</i> and introduced <i>Chrysopogon zizanioides</i> in a constructed wetland treating gold mine tailing storage facility seepage. Ecological Engineering, 2020, 158, 106037. | 3.6 | 12 |
| 22 | Water treatment and re-use at temporary events using a mobile constructed wetland and drinking water production system. Science of the Total Environment, 2020, 737, 139630. | 8.0 | 19 |
| 23 | Characteristics and removal of microplastics in rural domestic wastewater treatment facilities of China. Science of the Total Environment, 2020, 739, 139935. | 8.0 | 85 |
| 24 | Natural Pigments and Biogas Recovery from Microalgae Grown in Wastewater. ACS Sustainable Chemistry and Engineering, 2020, 8, 10691-10701. | 6.7 | 51 |
| 25 | Horizontal subsurface flow constructed wetlands as tertiary treatment: Can they be an efficient barrier for microplastics pollution?. Science of the Total Environment, 2020, 721, 137785. | 8.0 | 82 |
| 26 | A new reactor design for harvesting algae through electrocoagulation-flotation in a continuous mode. Algal Research, 2020, 47, 101828. | 4.6 | 31 |
| 27 | Natural pigments from microalgae grown in industrial wastewater. Bioresource Technology, 2020, 303, 122894. | 9.6 | 87 |
| 28 | Trace element content in cereals from a gold mining site in Burkina Faso and intake risk assessment. Journal of Environmental Management, 2019, 248, 109292. | 7.8 | 9 |
| 29 | Gold Mine Impact on Soil Quality, Youga, Southern Burkina Faso, West Africa. Water, Air, and Soil Pollution, 2019, 230, 1. | 2.4 | 15 |
| 30 | The effect of primary treatment of wastewater in high rate algal pond systems: Biomass and bioenergy recovery. Bioresource Technology, 2019, 280, 27-36. | 9.6 | 70 |
| 31 | Influence of recirculation over COD and N-NH ₄ removals from landfill leachate by horizontal flow constructed treatment wetland. International Journal of Phytoremediation, 2019, 21, 998-1004. | 3.1 | 16 |
| 32 | Contaminants removal and bacterial activity enhancement along the flow path of constructed wetland microbial fuel cells. Science of the Total Environment, 2019, 652, 1195-1208. | 8.0 | 58 |
| 33 | A semi-mechanistic model describing the influence of light and temperature on the respiration and photosynthetic growth of <i>Chlorella vulgaris</i> . Bioresource Technology, 2019, 274, 361-370. | 9.6 | 37 |
| 34 | A full-scale comparison of two hybrid constructed wetlands treating domestic wastewater in Pakistan. Journal of Environmental Management, 2018, 210, 349-358. | 7.8 | 45 |
| 35 | Removal of pharmaceuticals by a pilot aerated sub-surface flow constructed wetland treating municipal and hospital wastewater. Ecological Engineering, 2017, 100, 157-164. | 3.6 | 71 |
| 36 | Fate of Silver Nanoparticles in Constructed Wetlands – a Microcosm Study. Water, Air, and Soil Pollution, 2017, 228, 1. | 2.4 | 21 |

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|----|---|------|-----------|
| 37 | Fate of metallic engineered nanomaterials in constructed wetlands: prospection and future research perspectives. <i>Reviews in Environmental Science and Biotechnology</i> , 2017, 16, 207-222. | 8.1 | 30 |
| 38 | Economic feasibility of microalgal bacterial floc production for wastewater treatment and biomass valorization: A detailed up-to-date analysis of up-scaled pilot results. <i>Bioresource Technology</i> , 2017, 224, 118-129. | 9.6 | 24 |
| 39 | Laboratory- and full-scale studies on the removal of pharmaceuticals in an aerated constructed wetland: effects of aeration and hydraulic retention time on the removal efficiency and assessment of the aquatic risk. <i>Water Science and Technology</i> , 2017, 76, 1457-1465. | 2.5 | 43 |
| 40 | Effects of design and operational parameters on ammonium removal by single-stage French vertical flow filters treating raw domestic wastewater. <i>Ecological Engineering</i> , 2016, 97, 516-523. | 3.6 | 30 |
| 41 | Technical potential of microalgal bacterial floc raceway ponds treating food-industry effluents while producing microalgal bacterial biomass: An outdoor pilot-scale study. <i>Bioresource Technology</i> , 2016, 218, 969-979. | 9.6 | 38 |
| 42 | Food-industry-effluent-grown microalgal bacterial flocs as a bioresource for high-value phycochemicals and biogas. <i>Algal Research</i> , 2016, 18, 25-32. | 4.6 | 20 |
| 43 | Simulation of batch-operated experimental wetland mesocosms in AQUASIM biofilm reactor compartment. <i>Journal of Environmental Management</i> , 2014, 134, 100-108. | 7.8 | 11 |
| 44 | Performance Evaluation of Horizontal Subsurface Flow Constructed Wetlands for the Treatment of Domestic Wastewater in the Tropics. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 358-367. | 1.4 | 55 |
| 45 | Simulation of carbon, nitrogen and sulphur conversion in batch-operated experimental wetland mesocosms. <i>Ecological Engineering</i> , 2012, 42, 304-315. | 3.6 | 42 |
| 46 | Numerical Modelling of Waste Stabilization Ponds: Where Do We Stand?. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3155-3171. | 2.4 | 37 |
| 47 | Use of Gisenyi Volcanic Rock for Adsorptive Removal of Cd(II), Cu(II), Pb(II), and Zn(II) from Wastewater. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 533-547. | 2.4 | 30 |
| 48 | Fate of Heavy Metals in an Urban Natural Wetland: The Nyabugogo Swamp (Rwanda). <i>Water, Air, and Soil Pollution</i> , 2011, 214, 321-333. | 2.4 | 44 |
| 49 | Contaminant Removal Processes in Subsurface-Flow Constructed Wetlands: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2010, 40, 561-661. | 12.8 | 399 |
| 50 | Application of the gas tracer method for measuring oxygen transfer rates in subsurface flow constructed wetlands. <i>Water Research</i> , 2010, 44, 4217-4225. | 11.3 | 40 |
| 51 | CWM1: a general model to describe biokinetic processes in subsurface flow constructed wetlands. <i>Water Science and Technology</i> , 2009, 59, 1687-1697. | 2.5 | 111 |
| 52 | Impact of Prior Physico-Chemical Treatment on the Clogging Process of Subsurface Flow Constructed Wetlands: Model-Based Evaluation. <i>Water, Air, and Soil Pollution</i> , 2007, 185, 101-109. | 2.4 | 24 |
| 53 | Tertiary treatment of the liquid fraction of pig manure with <i>Phragmites australis</i> . <i>Water, Air, and Soil Pollution</i> , 2005, 160, 15-26. | 2.4 | 31 |
| 54 | Model Study of Short-Term Dynamics of Secondary Treatment Reed Beds at Saxby (Leicestershire, UK). <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005, 40, 1479-1492. | 1.7 | 7 |

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|----|---|------|-----------|
| 55 | Constructed wetlands in Flanders: a performance analysis. <i>Ecological Engineering</i> , 2004, 23, 151-163. | 3.6 | 128 |
| 56 | Model-based design of horizontal subsurface flow constructed treatment wetlands: a review. <i>Water Research</i> , 2004, 38, 1484-1493. | 11.3 | 287 |