

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	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
2	Model-based design of horizontal subsurface flow constructed treatment wetlands: a review. <i>Water Research</i> , 2004, 38, 1484-1493.	11.3	287
3	Constructed wetlands in Flanders: a performance analysis. <i>Ecological Engineering</i> , 2004, 23, 151-163.	3.6	128
4	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
5	Natural pigments from microalgae grown in industrial wastewater. <i>Bioresource Technology</i> , 2020, 303, 122894.	9.6	87
6	Characteristics and removal of microplastics in rural domestic wastewater treatment facilities of China. <i>Science of the Total Environment</i> , 2020, 739, 139935.	8.0	85
7	Horizontal subsurface flow constructed wetlands as tertiary treatment: Can they be an efficient barrier for microplastics pollution?. <i>Science of the Total Environment</i> , 2020, 721, 137785.	8.0	82
8	Removal of pharmaceuticals by a pilot aerated sub-surface flow constructed wetland treating municipal and hospital wastewater. <i>Ecological Engineering</i> , 2017, 100, 157-164.	3.6	71
9	The effect of primary treatment of wastewater in high rate algal pond systems: Biomass and bioenergy recovery. <i>Bioresource Technology</i> , 2019, 280, 27-36.	9.6	70
10	Contaminants removal and bacterial activity enhancement along the flow path of constructed wetland microbial fuel cells. <i>Science of the Total Environment</i> , 2019, 652, 1195-1208.	8.0	58
11	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
12	Natural Pigments and Biogas Recovery from Microalgae Grown in Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10691-10701.	6.7	51
13	A full-scale comparison of two hybrid constructed wetlands treating domestic wastewater in Pakistan. <i>Journal of Environmental Management</i> , 2018, 210, 349-358.	7.8	45
14	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
15	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
16	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
17	Simulation of carbon, nitrogen and sulphur conversion in batch-operated experimental wetland mesocosms. <i>Ecological Engineering</i> , 2012, 42, 304-315.	3.6	42
18	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

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19	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
20	Numerical Modelling of Waste Stabilization Ponds: Where Do We Stand?. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3155-3171.	2.4	37
21	A semi-mechanistic model describing the influence of light and temperature on the respiration and photosynthetic growth of <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2019, 274, 361-370.	9.6	37
22	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
23	A new reactor design for harvesting algae through electrocoagulation-flotation in a continuous mode. <i>Algal Research</i> , 2020, 47, 101828.	4.6	31
24	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
25	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
26	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
27	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
28	Constructed wetlands operated as bioelectrochemical systems for the removal of organic micropollutants. <i>Chemosphere</i> , 2021, 271, 129593.	8.2	27
29	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
30	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
31	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
32	Fate of Silver Nanoparticles in Constructed Wetlands—a Microcosm Study. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	21
33	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
34	Water treatment and re-use at temporary events using a mobile constructed wetland and drinking water production system. <i>Science of the Total Environment</i> , 2020, 737, 139630.	8.0	19
35	Influence of recirculation over COD and N-NH ₄ removals from landfill leachate by horizontal flow constructed treatment wetland. <i>International Journal of Phytoremediation</i> , 2019, 21, 998-1004.	3.1	16
36	Gold Mine Impact on Soil Quality, Youga, Southern Burkina Faso, West Africa. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	2.4	15

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37	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. <i>Ecological Engineering</i> , 2020, 158, 106037.	3.6	12
38	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
39	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
40	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
41	Roof runoff contamination: Establishing material-pollutant relationships and material benchmarking based on laboratory leaching tests. <i>Chemosphere</i> , 2021, 283, 131112.	8.2	10
42	Trace element content in cereals from a gold mining site in Burkina Faso and intake risk assessment. <i>Journal of Environmental Management</i> , 2019, 248, 109292.	7.8	9
43	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
44	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
45	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
46	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
47	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
48	Hydrogen peroxide in bioelectrochemical systems negatively affects microbial current generation. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1463-1478.	2.9	5
49	Metals and metalloid in gold mine pit lakes and fish intake risk assessment, Burkina Faso. <i>Environmental Geochemistry and Health</i> , 2020, 42, 563-577.	3.4	4
50	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
51	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
52	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
53	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
54	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

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55	Constructed Wetlands for Urban Wastewater Treatment: An Overview. , 2021, , .		0
56	Case Studies of (Semi)Constructed Wetlands Treating Point and Non-point Pollutant Loads to Protect Downstream Natural Ecosystems. , 2021, , .		0