

Günter Langergraber

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

3,026
citations

147566

31
h-index

174990

52
g-index

99
all docs

99
docs citations

99
times ranked

2360
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological Sanitationâ€”a way to solve global sanitation problems?. <i>Environment International</i> , 2005, 31, 433-444.	4.8	232
2	Constructed wetlands for the treatment of organic pollutants. <i>Journal of Soils and Sediments</i> , 2003, 3, 109-124.	1.5	166
3	Modeling Variably Saturated Water Flow and Multicomponent Reactive Transport in Constructed Wetlands. <i>Vadose Zone Journal</i> , 2005, 4, 924-938.	1.3	135
4	Using phytoremediation technologies to upgrade waste water treatment in Europe. <i>Environmental Science and Pollution Research</i> , 2007, 14, 490-497.	2.7	119
5	Recent developments in numerical modelling of subsurface flow constructed wetlands. <i>Science of the Total Environment</i> , 2009, 407, 3931-3943.	3.9	117
6	CWM1: a general model to describe biokinetic processes in subsurface flow constructed wetlands. <i>Water Science and Technology</i> , 2009, 59, 1687-1697.	1.2	111
7	Bio-waste valorisation: Agricultural wastes as biosorbents for removal of (in)organic pollutants in wastewater treatment. <i>Chemical Engineering Journal Advances</i> , 2022, 9, 100239.	2.4	109
8	Uncertainties of spectral in situ measurements in wastewater using different calibration approaches. <i>Water Science and Technology</i> , 2006, 53, 187-197.	1.2	103
9	Modeling of Processes in Subsurface Flow Constructed Wetlands: A Review. <i>Vadose Zone Journal</i> , 2008, 7, 830-842.	1.3	99
10	Characterisation of microbial biocoenosis in vertical subsurface flow constructed wetlands. <i>Science of the Total Environment</i> , 2007, 380, 163-172.	3.9	93
11	Modelling pollutant removal in a pilot-scale two-stage subsurface flow constructed wetlands. <i>Ecological Engineering</i> , 2009, 35, 281-289.	1.6	82
12	Implementing nature-based solutions for creating a resourceful circular city. <i>Blue-Green Systems</i> , 2020, 2, 173-185.	0.6	78
13	Simulation of the treatment performance of outdoor subsurface flow constructed wetlands in temperate climates. <i>Science of the Total Environment</i> , 2007, 380, 210-219.	3.9	74
14	Green walls for greywater treatment and recycling in dense urban areas: a case-study in Pune. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2016, 6, 342-347.	0.7	73
15	Investigation of bacterial removal during the filtration process in constructed wetlands. <i>Science of the Total Environment</i> , 2007, 380, 173-180.	3.9	69
16	Modelling constructed wetlands: Scopes and aims â€” a comparative review. <i>Ecological Engineering</i> , 2015, 80, 205-213.	1.6	55
17	Nature-Based Solutions and Circularity in Cities. <i>Circular Economy and Sustainability</i> , 2021, 1, 319-332.	3.3	54
18	Fundamentals of Building Deconstruction as a Circular Economy Strategy for the Reuse of Construction Materials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 939.	1.3	53

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19	Bacterial carbon utilization in vertical subsurface flow constructed wetlands. <i>Water Research</i> , 2008, 42, 1622-1634.	5.3	51
20	Reactive Transport Modeling of Subsurface Flow Constructed Wetlands Using the HYDRUS Wetland Module. <i>Vadose Zone Journal</i> , 2012, 11, vzt2011.0104.	1.3	51
21	Long term decentralized greywater treatment for water reuse purposes in a tourist facility by vertical ecosystem. <i>Ecological Engineering</i> , 2019, 138, 138-147.	1.6	49
22	Modelling of organic matter degradation in constructed wetlands for treatment of combined sewer overflow. <i>Science of the Total Environment</i> , 2007, 380, 196-209.	3.9	48
23	Generation of diurnal variation for influent data for dynamic simulation. <i>Water Science and Technology</i> , 2008, 57, 1483-1486.	1.2	45
24	A Framework for Addressing Circularity Challenges in Cities with Nature-Based Solutions. <i>Water (Switzerland)</i> , 2021, 13, 2355.	1.2	39
25	Removal efficiency of a constructed wetland combined with ultrasound and UV devices for wastewater reuse in agriculture. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2327-2336.	1.2	38
26	High-rate nitrogen removal in a two-stage subsurface vertical flow constructed wetland. <i>Desalination</i> , 2009, 246, 55-68.	4.0	35
27	Diversity of abundant bacteria in subsurface vertical flow constructed wetlands. <i>Ecological Engineering</i> , 2009, 35, 1021-1025.	1.6	35
28	The verification of the Constructed Wetland Model No. 1 implementation in HYDRUS using column experiment data. <i>Ecological Engineering</i> , 2014, 68, 105-115.	1.6	33
29	Diversity of ammonia oxidising bacteria in a vertical flow constructed wetland. <i>Water Science and Technology</i> , 2007, 56, 241-247.	1.2	32
30	Comparison of single-stage and a two-stage vertical flow constructed wetland systems for different load scenarios. <i>Water Science and Technology</i> , 2010, 61, 1341-1348.	1.2	32
31	Are constructed treatment wetlands sustainable sanitation solutions?. <i>Water Science and Technology</i> , 2013, 67, 2133-2140.	1.2	32
32	Modelling the response of laboratory horizontal flow constructed wetlands to unsteady organic loads with HYDRUS-CWM1. <i>Ecological Engineering</i> , 2014, 68, 209-213.	1.6	32
33	Numerical modelling: a tool for better constructed wetland design?. <i>Water Science and Technology</i> , 2011, 64, 14-21.	1.2	31
34	A two-stage subsurface vertical flow constructed wetland for high-rate nitrogen removal. <i>Water Science and Technology</i> , 2008, 57, 1881-1887.	1.2	30
35	The new German standard on constructed wetland systems for treatment of domestic and municipal wastewater. <i>Water Science and Technology</i> , 2018, 78, 2414-2426.	1.2	29
36	Carbon and nitrogen gaseous fluxes from subsurface flow wetland buffer strips at mesocosm scale in East Africa. <i>Ecological Engineering</i> , 2015, 85, 173-184.	1.6	28

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37	Long-term behaviour of a two-stage CW system regarding nitrogen removal. <i>Water Science and Technology</i> , 2011, 64, 1137-1141.	1.2	26
38	Comparison of nitrogen elimination rates of different constructed wetland designs. <i>Water Science and Technology</i> , 2011, 64, 1122-1129.	1.2	25
39	Applying Process-Based Models for Subsurface Flow Treatment Wetlands: Recent Developments and Challenges. <i>Water (Switzerland)</i> , 2017, 9, 5.	1.2	25
40	Aeration intensity simulation in a saturated vertical up-flow constructed wetland. <i>Science of the Total Environment</i> , 2020, 708, 134793.	3.9	24
41	Removal efficiency of subsurface vertical flow constructed wetlands for different organic loads. <i>Water Science and Technology</i> , 2007, 56, 75-84.	1.2	22
42	Optimization of subsurface vertical flow constructed wetlands for wastewater treatment. <i>Water Science and Technology</i> , 2007, 55, 71-78.	1.2	21
43	Long-term evaluation of a spectral sensor for nitrite and nitrate. <i>Water Science and Technology</i> , 2008, 57, 1563-1569.	1.2	21
44	The State of the Art of Clogging in Vertical Flow Wetlands. <i>Water (Switzerland)</i> , 2019, 11, 2400.	1.2	19
45	Small wastewater treatment plants in Austria – Technologies, management and training of operators. <i>Ecological Engineering</i> , 2018, 120, 164-169.	1.6	18
46	Developing sanitation planning options: A tool for systematic consideration of novel technologies and systems. <i>Journal of Environmental Management</i> , 2020, 271, 111004.	3.8	18
47	Nitrate dynamics in a rural headwater catchment: measurements and modelling. <i>Hydrological Processes</i> , 2014, 28, 1820-1834.	1.1	17
48	Treatment wetlands in decentralised approaches for linking sanitation to energy and food security. <i>Water Science and Technology</i> , 2018, 77, 859-860.	1.2	17
49	Towards a Cross-Sectoral View of Nature-Based Solutions for Enabling Circular Cities. <i>Water (Switzerland)</i> , 2021, 13, 2352.	1.2	17
50	The coupled socio-ecohydrological evolution of river systems: Towards an integrative perspective of river systems in the 21st century. <i>Science of the Total Environment</i> , 2021, 801, 149619.	3.9	17
51	Comparison of measured and simulated distribution of microbial biomass in subsurface vertical flow constructed wetlands. <i>Water Science and Technology</i> , 2007, 56, 233-240.	1.2	15
52	Impact of Green Roofs and Vertical Greenery Systems on Surface Runoff Quality. <i>Water (Switzerland)</i> , 2021, 13, 2609.	1.2	15
53	Framework Conditions and Strategies for Pop-Up Environments in Urban Planning. <i>Sustainability</i> , 2019, 11, 7204.	1.6	12
54	Using numerical simulation of a one stage vertical flow wetland to optimize the depth of a zeolite layer. <i>Water Science and Technology</i> , 2017, 75, 650-658.	1.2	11

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55	Rainwater Use for Vertical Greenery Systems: Development of a Conceptual Model for a Better Understanding of Processes and Influencing Factors. <i>Water (Switzerland)</i> , 2021, 13, 1860.	1.2	11
56	Experiences with a top layer of gravel to enhance the performance of vertical flow constructed wetlands at cold temperatures. <i>Water Science and Technology</i> , 2009, 59, 1111-1116.	1.2	10
57	Survey on number and size distribution of treatment wetlands in Austria. <i>Water Science and Technology</i> , 2017, 75, 2309-2315.	1.2	10
58	Simulation and verification of hydraulic properties and organic matter degradation in sand filters for greywater treatment. <i>Water Science and Technology</i> , 2015, 71, 426-433.	1.2	9
59	Performance of subsurface flow constructed wetland mesocosms in enhancing nutrient removal from municipal wastewater in warm tropical environments. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 1079-1090.	1.0	10
60	Influence of design parameters on the treatment performance of VF wetlands – a simulation study. <i>Water Science and Technology</i> , 2019, 80, 265-273.	1.2	8
61	Experiences with pre-precipitation of phosphorus in a vertical flow constructed wetland in Austria. <i>Water Science and Technology</i> , 2013, 67, 2337-2341.	1.2	7
62	Sensitivity analysis of the CLARA Simplified Planning Tool using the Morris screening method. <i>Water Science and Technology</i> , 2015, 71, 234-244.	1.2	7
63	Design-support and performance estimation using HYDRUS/CW2D: a horizontal flow constructed wetland for polishing SBR effluent. <i>Water Science and Technology</i> , 2015, 71, 965-970.	1.2	7
64	Development of a Sanitation Safety Plan for improving the sanitation system in peri-urban areas of Iringa, Tanzania. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2017, 7, 340-348.	0.7	7
65	Numerical simulation of vertical flow wetlands with special emphasis on treatment performance during winter. <i>Water Science and Technology</i> , 2018, 78, 2019-2026.	1.2	7
66	Possibilities of nature-based and hybrid decentralized solutions for reclaimed water reuse. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2020, , 145-187.	0.3	7
67	Constructed Wetlands for Rehabilitation and Reuse of Surface Waters in Tropical and Subtropical Areas – First Results from Small-scale Plots Using Vertical Flow Beds. <i>Water Science and Technology</i> , 1999, 40, 155-162.	1.2	7
68	Going Beyond Global Indicators – Policy Relevant Indicators for SDG 6 Targets in the Context of Austria. <i>Sustainability</i> , 2022, 14, 1647.	1.6	7
69	Non-equilibrium model for solute transport in differently designed biofilters targeting agricultural drainage water. <i>Water Science and Technology</i> , 2017, 76, 1324-1331.	1.2	6
70	Simulating vertical flow wetlands using filter media with different grain sizes with the HYDRUS Wetland Module. <i>Journal of Hydrology and Hydromechanics</i> , 2018, 66, 227-231.	0.7	6
71	Calibration of a simulation tool for subsurface flow constructed wetlands for wastewater treatment. <i>Developments in Water Science</i> , 2002, 47, 663-670.	0.1	5
72	Educational Resources for Geoethical Aspects of Water Management. <i>Geosciences (Switzerland)</i> , 2022, 12, 80.	1.0	5

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73	Experiences from the full-scale implementation of a new two-stage vertical flow constructed wetland design. <i>Water Science and Technology</i> , 2014, 69, 335-342.	1.2	4
74	Investigations on Nitrogen Removal in a Two-Stage Subsurface Vertical Flow Constructed Wetland. , 2008, , 199-209.		4
75	Comparison of simple models for total nitrogen removal from agricultural runoff in FWS wetlands. <i>Water Science and Technology</i> , 2022, 85, 3301-3314.	1.2	4
76	Evaluating the Performance of Small Wastewater Treatment Plants. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	4
77	Development of cost functions for water supply and sanitation technologies: case study of Bahir Dar and Arba Minch, Ethiopia. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2015, 5, 502-511.	0.7	3
78	Editorial: Status and future of wastewater treatment modelling. <i>Water Science and Technology</i> , 2010, 61, 821-823.	1.2	2
79	Process Based Models for Subsurface Flow Constructed Wetlands. , 2010, , 21-35.		2
80	Sensitivity analysis for water supply input parameters of the CLARA simplified planning tool using three complementary methods. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2015, 64, 391-403.	0.6	2
81	Statistical validation of the CLARA Simplified Planning Tool. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 193-201.	1.0	1
82	Editorial for the "Towards Circular Cities" Nature-based solutions for creating a resourceful circular city™ Special Issue. <i>Blue-Green Systems</i> , 2020, 2, 137-137.	0.6	1
83	Rain water harvesting as additional water supply for multi-storey buildings in Arba Minch, Ethiopia. <i>Desalination and Water Treatment</i> , 0, , 1-8.	1.0	0
84	Behaviour of a Two-Stage Vertical Flow Constructed Wetland with Hydraulic Peak Loads. , 2015, , 175-188.		0
85	Dezentrale Abwasserbewirtschaftung. <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , 2018, 70, 559-559.	0.3	0
86	Water and Circular Cities. <i>Water (Switzerland)</i> , 2021, 13, 3585.	1.2	0
87	Sanitation planning for resettlement sites in Laos. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2022, 12, 248-257.	0.7	0