

Pascal Molle

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,996
citations

236833

25
h-index

254106

43
g-index

68
all docs

68
docs citations

68
times ranked

1376
citing authors

#	ARTICLE	IF	CITATIONS
1	How to treat raw sewage with constructed wetlands: an overview of the French systems. <i>Water Science and Technology</i> , 2005, 51, 11-21.	1.2	227
2	Effect of reeds and feeding operations on hydraulic behaviour of vertical flow constructed wetlands under hydraulic overloads. <i>Water Research</i> , 2006, 40, 606-612.	5.3	131
3	Potential for total nitrogen removal by combining vertical flow and horizontal flow constructed wetlands: A full-scale experiment study. <i>Ecological Engineering</i> , 2008, 34, 23-29.	1.6	129
4	Basic Oxygen Furnace steel slag aggregates for phosphorus treatment. Evaluation of its potential use as a substrate in constructed wetlands. <i>Water Research</i> , 2016, 89, 355-365.	5.3	114
5	Impact of design and operation variables on the performance of vertical-flow constructed wetlands and intermittent sand filters treating pond effluent. <i>Water Research</i> , 2009, 43, 1851-1858.	5.3	100
6	Apatite as an interesting seed to remove phosphorus from wastewater in constructed wetlands. <i>Water Science and Technology</i> , 2005, 51, 193-203.	1.2	74
7	Influence of partial saturation on total nitrogen removal in a single-stage French constructed wetland treating raw domestic wastewater. <i>Ecological Engineering</i> , 2015, 77, 257-264.	1.6	57
8	French vertical flow constructed wetlands: a need of a better understanding of the role of the deposit layer. <i>Water Science and Technology</i> , 2014, 69, 106-112.	1.2	55
9	Modelling constructed wetlands: Scopes and aims – a comparative review. <i>Ecological Engineering</i> , 2015, 80, 205-213.	1.6	55
10	Treatment performances of French constructed wetlands: results from a database collected over the last 30 years. <i>Water Science and Technology</i> , 2015, 71, 1333-1339.	1.2	54
11	Phosphorus retention in subsurface constructed wetlands: investigations focused on calcareous materials and their chemical reactions. <i>Water Science and Technology</i> , 2003, 48, 75-83.	1.2	53
12	Performance evaluation of partially saturated vertical-flow constructed wetland with trickling filter and chemical precipitation for domestic and winery wastewaters treatment. <i>Ecological Engineering</i> , 2014, 71, 41-47.	1.6	52
13	Recirculation on a single stage of vertical flow constructed wetland: Treatment limits and operation modes. <i>Ecological Engineering</i> , 2012, 43, 81-84.	1.6	49
14	Constructed Wetlands for Combined Sewer Overflow Treatment – Comparison of German, French and Italian Approaches. <i>Water (Switzerland)</i> , 2013, 5, 1-12.	1.2	47
15	Removal of bacterial and viral indicator in vertical flow constructed wetlands and intermittent sand filters. <i>Desalination</i> , 2009, 246, 169-178.	4.0	46
16	Modelling bioclogging in variably saturated porous media and the interactions between surface/subsurface flows: Application to Constructed Wetlands. <i>Journal of Environmental Management</i> , 2016, 165, 271-279.	3.8	41
17	Constructed wetlands treating stormwater from separate sewer networks in a residential Strasbourg urban catchment area: Micropollutant removal and fate. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 2816-2824.	3.3	39
18	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.	1.2	33

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19	Influence of the physical and mechanical characteristics of sands on the hydraulic and biological behaviors of sand filters. <i>Desalination</i> , 2009, 248, 998-1007.	4.0	32
20	Sludge drying reed beds for septage treatment: Towards design and operation recommendations. <i>Bioresource Technology</i> , 2011, 102, 8327-8330.	4.8	32
21	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.	1.6	30
22	Treatment of septage in sludge drying reed beds: a case study on pilot-scale beds. <i>Water Science and Technology</i> , 2009, 60, 643-653.	1.2	29
23	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
24	French vertical-flow constructed wetland design: adaptations for tropical climates. <i>Water Science and Technology</i> , 2015, 71, 1516-1523.	1.2	27
25	Modeling nitrogen removal in a vertical flow constructed wetland treating directly domestic wastewater. <i>Ecological Engineering</i> , 2014, 70, 379-386.	1.6	26
26	Simulation of constructed wetlands treating combined sewer overflow using HYDRUS/CW2D. <i>Ecological Engineering</i> , 2016, 87, 340-347.	1.6	22
27	Modelling aerobic biodegradation in vertical flow sand filters: Impact of operational considerations on oxygen transfer and bacterial activity. <i>Water Research</i> , 2012, 46, 2270-2280.	5.3	21
28	Influence of the water saturation level on phosphorus retention and treatment performances of vertical flow constructed wetland combined with trickling filter and FeCl ₃ injection. <i>Ecological Engineering</i> , 2015, 80, 53-61.	1.6	20
29	Which plants are needed for a French vertical-flow constructed wetland under a tropical climate?. <i>Water Science and Technology</i> , 2017, 75, 1873-1881.	1.2	20
30	Sludge drying reed beds: full- and pilot-scale study for activated sludge treatment. <i>Water Science and Technology</i> , 2009, 60, 1145-1154.	1.2	18
31	Phosphorus removal by apatite in horizontal flow constructed wetlands for small communities: pilot and full-scale evidence. <i>Water Science and Technology</i> , 2011, 63, 1629-1637.	1.2	17
32	Modeling constructed wetlands with variably saturated vertical subsurface-flow for urban stormwater treatment. <i>Ecological Engineering</i> , 2013, 55, 1-8.	1.6	17
33	Resilience and reliability of compact vertical-flow treatment wetlands designed for tropical climates. <i>Science of the Total Environment</i> , 2018, 642, 208-215.	3.9	17
34	Assessment of X-ray Computed Tomography to characterize filtering media from Vertical Flow Treatment Wetlands at the pore scale. <i>Science of the Total Environment</i> , 2019, 658, 178-188.	3.9	17
35	Septage unit treatment by sludge treatment reed beds for easy management and reuse: performance and design considerations. <i>Water Science and Technology</i> , 2018, 77, 279-285.	1.2	17
36	Mechanical and hydraulic properties of sludge deposit on sludge drying reed beds (SDRBs): Influence of sludge characteristics and loading rates. <i>Bioresource Technology</i> , 2012, 116, 161-169.	4.8	16

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37	Phosphorus removal by the use of apatite in constructed wetlands: Design recommendations. <i>Water Practice and Technology</i> , 2011, 6, .	1.0	15
38	Characterizing hydraulic properties of filter material of a vertical flow constructed wetland. <i>Ecological Engineering</i> , 2013, 60, 325-335.	1.6	15
39	Model-based optimization of constructed wetlands treating combined sewer overflow. <i>Ecological Engineering</i> , 2017, 101, 261-267.	1.6	15
40	High-frequency measurement of N ₂ O emissions from a full-scale vertical subsurface flow constructed wetland. <i>Ecological Engineering</i> , 2017, 108, 240-248.	1.6	14
41	Performance assessment of a vertical flow constructed wetland treating unsettled combined sewer overflow. <i>Water Science and Technology</i> , 2017, 75, 2586-2597.	1.2	12
42	Filling hydraulics and nitrogen dynamics in constructed wetlands treating combined sewer overflows. <i>Ecological Engineering</i> , 2017, 101, 137-144.	1.6	12
43	Solid respirometry to characterize nitrification kinetics: A better insight for modelling nitrogen conversion in vertical flow constructed wetlands. <i>Water Research</i> , 2011, 45, 4995-5004.	5.3	11
44	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
45	French vertical-flow constructed wetlands in mountain areas: how do cold temperatures impact performances?. <i>Water Science and Technology</i> , 2015, 71, 1219-1228.	1.2	10
46	Natural Rock Phosphate: A Sustainable Solution for Phosphorous Removal from Wastewater. <i>Procedia Engineering</i> , 2016, 138, 119-126.	1.2	10
47	Performance evaluation of phosphorus removal by apatite in constructed wetlands treating domestic wastewater: column and pilot experiments. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 740-752.	1.8	9
48	A single-output model for the dynamic design of constructed wetlands treating combined sewer overflow. <i>Environmental Modelling and Software</i> , 2018, 102, 49-72.	1.9	9
49	Simplified hydraulic model of French vertical-flow constructed wetlands. <i>Water Science and Technology</i> , 2014, 70, 909-916.	1.2	8
50	Using one filter stage of unsaturated/saturated vertical flow filters for nitrogen removal and footprint reduction of constructed wetlands. <i>Water Science and Technology</i> , 2017, 76, 124-133.	1.2	8
51	Two-phase flow modelling for oxygen renewal estimation in vertical flow filter: luxury or necessity?. <i>Water Science and Technology</i> , 2009, 59, 2311-2319.	1.2	7
52	Assessment of spatial representativity of X-ray tomography to study Vertical Flow Treatment wetlands. <i>Science of the Total Environment</i> , 2020, 713, 136510.	3.9	7
53	Pilot-scale study of vertical flow constructed wetland combined with trickling filter and ferric chloride coagulation: influence of irregular operational conditions. <i>Water Science and Technology</i> , 2015, 71, 1088-1096.	1.2	6
54	Ecological services of artificial wetland for pesticide mitigation Socio-technical adaptation for watershed management through TRUSTEA project feedback. <i>Procedia Environmental Sciences</i> , 2011, 9, 183-190.	1.3	5

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55	Improvement of Sand Filter and Constructed Wetland Design using an Environmental Decision Support System. <i>Journal of Environmental Quality</i> , 2008, 37, 1644-1647.	1.0	4
56	Performance and reliability comparison of French vertical flow treatment wetlands with other decentralized wastewater treatment technologies in tropical climates. <i>Water Science and Technology</i> , 2020, 82, 1701-1709.	1.2	4
57	Granulated apatite filters for phosphorous retention in treatment wetlands: Experience from full-scale applications. <i>Journal of Water Process Engineering</i> , 2021, 40, 101927.	2.6	4
58	French vertical flow treatment wetlands in a subtropical climate: Characterization of the organic deposit layer and comparison with systems in France. <i>Science of the Total Environment</i> , 2020, 742, 140608.	3.9	3
59	Spatialization of saturated hydraulic conductivity using the Bayesian Maximum Entropy method: Application to wastewater infiltration areas. <i>Water Research</i> , 2021, 204, 117607.	5.3	3
60	On-site single-stage constructed wetland fed by raw wastewater: performances and resilience of the system. <i>Water Science and Technology</i> , 2018, 78, 459-465.	1.2	2
61	Diagnosis of domestic wastewater sand filters. <i>Water Management</i> , 2013, 166, 57-69.	0.4	1
62	Phosphorus retention by granulated apatite: assessing maximum retention capacity, kinetics and retention processes. <i>Water Science and Technology</i> , 2021, 83, 792-802.	1.2	1
63	Effect of Filter Media and Depth on Hydrodynamics and Treatment Performances of Single-Stage French Vertical Flow Treatment Wetlands Treating Domestic Effluent. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	1.1	1
64	Long-term investigations on ammonium removal with zeolite in compact vertical flow treatment wetlands under field conditions. <i>Water Science and Technology</i> , 2022, 85, 746-755.	1.2	1
65	Lessons Gained from French R&D Programs for Pesticides Dissipation by Use of Constructed Wetlands. , 2010, , .		0
66	Structural Changes in French VF Treatment Wetland Porous Media during the Rest Period: An Ex Situ Study Using X-ray Tomography. <i>Water (Switzerland)</i> , 2021, 13, 389.	1.2	0
67	Surface characterization of natural apatites used to remove phosphates from wastewater in constructed wetlands: which techniques to use?. <i>Materiaux Et Techniques</i> , 2012, 100, 191-199.	0.3	0