

Charlotte Kjaergaard

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,120
citations

218381

26
h-index

243296

44
g-index

59
all docs

59
docs citations

59
times ranked

2397
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorus Retention in Riparian Buffers: Review of Their Efficiency. <i>Journal of Environmental Quality</i> , 2009, 38, 1942-1955.	1.0	287
2	Colloids and Colloid-Facilitated Transport of Contaminants in Soils: An Introduction. <i>Vadose Zone Journal</i> , 2004, 3, 321-325.	1.3	161
3	Drying and rewetting of a loamy sand soil did not increase the turnover of native organic matter, but retarded the decomposition of added ¹⁴ C-labelled plant material. <i>Soil Biology and Biochemistry</i> , 1999, 31, 595-602.	4.2	106
4	Effects of Manure Application and Plowing on Transport of Colloids and Phosphorus to Tile Drains. <i>Vadose Zone Journal</i> , 2006, 5, 445-458.	1.3	84
5	Recovering decomposing plant residues from the particulate soil organic matter fraction: size versus density separation. <i>Biology and Fertility of Soils</i> , 2001, 33, 252-257.	2.3	77
6	Interactions between Soil Texture and Placement of Dairy Slurry Application: II. Leaching of Phosphorus Forms. <i>Journal of Environmental Quality</i> , 2011, 40, 344-351.	1.0	65
7	Vivianite Precipitation and Phosphate Sorption following Iron Reduction in Anoxic Soils. <i>Journal of Environmental Quality</i> , 2012, 41, 938-949.	1.0	63
8	Nitrous oxide fluxes in undisturbed riparian wetlands located in agricultural catchments: Emission, uptake and controlling factors. <i>Soil Biology and Biochemistry</i> , 2014, 68, 291-299.	4.2	62
9	Greenhouse gas emissions from a Danish riparian wetland before and after restoration. <i>Ecological Engineering</i> , 2013, 57, 170-182.	1.6	60
10	Water-Dispersible Colloids: Effects of Measurement Method, Clay Content, Initial Soil Matrix Potential, and Wetting Rate. <i>Vadose Zone Journal</i> , 2004, 3, 403-412.	1.3	59
11	Colloids and Colloid-Facilitated Transport of Contaminants in Soils: An Introduction. <i>Vadose Zone Journal</i> , 2004, 3, 321-325.	1.3	49
12	Low phosphorus release but high nitrogen removal in two restored riparian wetlands inundated with agricultural drainage water. <i>Ecological Engineering</i> , 2012, 46, 75-87.	1.6	48
13	Does vivianite control phosphate solubility in anoxic meadow soils?. <i>Geoderma</i> , 2013, 193-194, 189-199.	2.3	48
14	Colloid Mobilization and Transport in Undisturbed Soil Columns. I. Pore Structure Characterization and Tritium Transport. <i>Vadose Zone Journal</i> , 2004, 3, 413-423.	1.3	47
15	Colloid Mobilization and Transport in Undisturbed Soil Columns. II. The Role of Colloid Dispersibility and Preferential Flow. <i>Vadose Zone Journal</i> , 2004, 3, 424-433.	1.3	47
16	Phosphorus mobilization in rewetted peat and sand at variable flow rate and redox regimes. <i>Geoderma</i> , 2012, 173-174, 311-321.	2.3	47
17	Phosphorus release from anaerobic peat soils during convective discharge – Effect of soil Fe:P molar ratio and preferential flow. <i>Geoderma</i> , 2014, 223-225, 21-32.	2.3	44
18	Simulating seasonal variations of tile drainage discharge in an agricultural catchment. <i>Water Resources Research</i> , 2017, 53, 3896-3920.	1.7	43

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19	A Comparative Study of Phosphate Sorption in Lowland Soils under Oxic and Anoxic Conditions. <i>Journal of Environmental Quality</i> , 2010, 39, 734-743.	1.0	41
20	Properties of Water-Dispersible Colloids from Macropore Deposits and Bulk Horizons of an Agrudalf. <i>Soil Science Society of America Journal</i> , 2004, 68, 1844-1852.	1.2	36
21	Solute transport and nitrate removal in full-scale subsurface flow constructed wetlands of various designs treating agricultural drainage water. <i>Ecological Engineering</i> , 2016, 97, 88-97.	1.6	33
22	Cost-Effectiveness Analysis of Surface Flow Constructed Wetlands (SFCW) for Nutrient Reduction in Drainage Discharge from Agricultural Fields in Denmark. <i>Environmental Management</i> , 2015, 56, 1478-1486.	1.2	32
23	Risk Predicting of Macropore Flow using Pedotransfer Functions, Textural Maps, and Modeling. <i>Vadose Zone Journal</i> , 2011, 10, 1185-1195.	1.3	31
24	Phosphorus retention in surface-flow constructed wetlands targeting agricultural drainage water. <i>Ecological Engineering</i> , 2018, 120, 94-103.	1.6	29
25	New Training to Meet the Global Phosphorus Challenge. <i>Environmental Science & Technology</i> , 2019, 53, 8479-8481.	4.6	29
26	An overview of nutrient transport mitigation measures for improvement of water quality in Denmark. <i>Ecological Engineering</i> , 2020, 155, 105863.	1.6	28
27	Interactions between Soil Texture and Placement of Dairy Slurry Application: I. Flow Characteristics and Leaching of Nonreactive Components. <i>Journal of Environmental Quality</i> , 2011, 40, 337-343.	1.0	26
28	Colloid Mobilization and Transport in Undisturbed Soil Columns. I. Pore Structure Characterization and Tritium Transport. <i>Vadose Zone Journal</i> , 2004, 3, 413-423.	1.3	25
29	Solute Transport Properties of Fen Peat Differing in Organic Matter Content. <i>Journal of Environmental Quality</i> , 2017, 46, 1106-1113.	1.0	22
30	Groundwater dynamics and effect of tile drainage on water flow across the redox interface in a Danish Weichsel till area. <i>Advances in Water Resources</i> , 2019, 123, 23-39.	1.7	22
31	Water-Dispersible Colloids: Effects of Measurement Method, Clay Content, Initial Soil Matrix Potential, and Wetting Rate. <i>Vadose Zone Journal</i> , 2004, 3, 403-412.	1.3	21
32	Methane emissions in Danish riparian wetlands: Ecosystem comparison and pursuit of vegetation indexes as predictive tools. <i>Ecological Indicators</i> , 2013, 34, 548-559.	2.6	21
33	Environmental controls of plant species richness in riparian wetlands: Implications for restoration. <i>Basic and Applied Ecology</i> , 2015, 16, 480-489.	1.2	21
34	Colloid Mobilization and Transport in Undisturbed Soil Columns. II. The Role of Colloid Dispersibility and Preferential Flow. <i>Vadose Zone Journal</i> , 2004, 3, 424-433.	1.3	20
35	Agricultural Drainage Filters. II. Phosphorus Retention and Release at Different Flow Rates. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	19
36	Phosphorus accumulation and stability in sediments of surface-flow constructed wetlands. <i>Geoderma</i> , 2018, 331, 109-120.	2.3	19

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37	Nitrogen Removal in Permeable Woodchip Filters Affected by Hydraulic Loading Rate and Woodchip Ratio. <i>Journal of Environmental Quality</i> , 2016, 45, 1688-1695.	1.0	16
38	Three Twoâ€Dimensional Approaches for Simulating the Water Flow Dynamics in a Heterogeneous Tileâ€Drained Agricultural Field in Denmark. <i>Soil Science Society of America Journal</i> , 2018, 82, 1367-1383.	1.2	16
39	Nitrogen Removal in Woodchipâ€Based Biofilters of Variable Designs Treating Agricultural Drainage Discharges. <i>Journal of Environmental Quality</i> , 2019, 48, 1881-1889.	1.0	16
40	Convective transport of dissolved gases determines the fate of the greenhouse gases produced in reactive drainage filters. <i>Ecological Engineering</i> , 2017, 98, 1-10.	1.6	15
41	Longâ€Term Effects of Organic Waste Fertilizers on Soil Structure, Tracer Transport, and Leaching of Colloids. <i>Journal of Environmental Quality</i> , 2017, 46, 862-870.	1.0	15
42	Nitrate reduction pathways and interactions with iron in the drainage water infiltration zone of a riparian wetland soil. <i>Biogeochemistry</i> , 2020, 150, 235-255.	1.7	15
43	Policies for wetlands implementation in Denmark and Sweden â€ historical lessons and emerging issues. <i>Land Use Policy</i> , 2021, 101, 105206.	2.5	15
44	Effect of irrigation regimes on mobilization of nonreactive tracers and dissolved and particulate phosphorus in slurryâ€injected soils. <i>Water Resources Research</i> , 2011, 47, .	1.7	13
45	Relation between soil P test values and mobilization of dissolved and particulate P from the plough layer of typical D anish soils from a longâ€term field experiment with applied P fertilizers. <i>Soil Use and Management</i> , 2013, 29, 297-305.	2.6	13
46	A Simplified Transfer Function for Estimating Saturated Hydraulic Conductivity of Porous Drainage Filters. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	11
47	Agricultural Drainage Filters. I. Filter Hydro-Physical Properties and Tracer Transport. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	11
48	Modelling phosphorus removal efficiency of a reactive filter treating agricultural tile drainage water. <i>Ecological Engineering</i> , 2020, 156, 105968.	1.6	11
49	Internal hydraulics and wind effect in a surface flow constructed wetland receiving agricultural drainage water. <i>Ecological Engineering</i> , 2020, 144, 105661.	1.6	11
50	Heavy Metal Leaching as Affected by Longâ€Time Organic Waste Fertilizer Application. <i>Journal of Environmental Quality</i> , 2017, 46, 871-878.	1.0	10
51	Importance of geological information for assessing drain flow in a Danish till landscape. <i>Hydrological Processes</i> , 2019, 33, 450-462.	1.1	10
52	Tracer, Dissolved Organic Carbon, and Colloid Leaching from Erosionâ€Affected Arable Hillslope Soils. <i>Vadose Zone Journal</i> , 2015, 14, 1-18.	1.3	9
53	Riparian Lowlands in Clay Till Landscapes: Part Iâ€ Heterogeneity of Flow Paths and Water Balances. <i>Water Resources Research</i> , 2020, 56, e2019WR025808.	1.7	9
54	Modeling Solute Mass Exchange between Pore Regions in Slurry-Injected Soil Columns during Intermittent Irrigation. <i>Vadose Zone Journal</i> , 2018, 17, 180006.	1.3	8

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55	Stream characteristics and their implications for the protection of riparian fens and meadows. <i>Freshwater Biology</i> , 2011, 56, 1893-1903.	1.2	7
56	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
57	Relating Water and Air Flow Characteristics in Coarse Granular Materials. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	4
58	Bacteria as transporters of phosphorus through soil. <i>European Journal of Soil Science</i> , 2016, 67, 99-108.	1.8	4
59	Riparian Lowlands in Clay Till Landscapes Part II: Nitrogen Reduction and Release Along Variable Flow Paths. <i>Water Resources Research</i> , 2020, 56, e2019WR025810.	1.7	3