

Laurent Ll Lassabatere

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6523198/publications.pdf>

Version: 2024-02-01

97
papers

2,325
citations

257101

24
h-index

264894

42
g-index

137
all docs

137
docs citations

137
times ranked

1616
citing authors

#	ARTICLE	IF	CITATIONS
1	Beerkan Estimation of Soil Transfer Parameters through Infiltration Experiments-BEST. Soil Science Society of America Journal, 2006, 70, 521-532.	1.2	286
2	Hydrodynamic Characterization of Basic Oxygen Furnace Slag through an Adapted BEST Method. Vadose Zone Journal, 2010, 9, 107.	1.3	93
3	Development and analysis of the Soil Water Infiltration Global database. Earth System Science Data, 2018, 10, 1237-1263.	3.7	85
4	Effect of the settlement of sediments on water infiltration in two urban infiltration basins. Geoderma, 2010, 156, 316-325.	2.3	76
5	Numerical evaluation of a set of analytical infiltration equations. Water Resources Research, 2009, 45, .	1.7	66
6	Impact of land use on the hydraulic properties of the topsoil in a small French catchment. Hydrological Processes, 2010, 24, 2382-2399.	1.1	65
7	Testing a new automated single ring infiltrometer for Beerkan infiltration experiments. Geoderma, 2016, 262, 20-34.	2.3	64
8	Infiltration Measurements for Soil Hydraulic Characterization. , 2016, , .		63
9	Turbulent velocity profile in fully-developed open channel flows. Environmental Fluid Mechanics, 2008, 8, 1-17.	0.7	61
10	Modeling the influence of an artificial macropore in sandy columns on flow and solute transfer. Journal of Hydrology, 2009, 376, 392-402.	2.3	47
11	Laboratory testing of Beerkan infiltration experiments for assessing the role of soil sealing on water infiltration. Catena, 2018, 167, 373-384.	2.2	46
12	Estimate of soil hydraulic properties from disc infiltrometer three-dimensional infiltration curve. Numerical analysis and field application. Journal of Hydrology, 2015, 527, 1-12.	2.3	45
13	Effect of a nonwoven geotextile on solute and colloid transport in porous media under both saturated and unsaturated conditions. Geotextiles and Geomembranes, 2013, 36, 55-65.	2.3	43
14	Beerkan Estimation of Soil Transfer parameters (BEST) across soils and scales. Journal of Hydrology, 2019, 576, 239-261.	2.3	41
15	Concomitant Zn and Cd and Pb retention in a carbonated fluvio-glacial deposit under both static and dynamic conditions. Chemosphere, 2007, 69, 1499-1508.	4.2	39
16	Retention of Three Heavy Metals (Zn, Pb, and Cd) in a Calcareous Soil Controlled by the Modification of Flow with Geotextiles. Environmental Science & Technology, 2004, 38, 4215-4221.	4.6	38
17	New Analytical Model for Cumulative Infiltration into Dual-Permeability Soils. Vadose Zone Journal, 2014, 13, vzt2013.10.0181.	1.3	38
18	Transport of two naphthoic acids and salicylic acid in soil: Experimental study and empirical modeling. Water Research, 2012, 46, 4457-4467.	5.3	36

#	ARTICLE	IF	CITATIONS
19	Impacts of thinning of a Mediterranean oak forest on soil properties influencing water infiltration. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 276-286.	0.7	31
20	Beerkan multi-runs for characterizing water infiltration and spatial variability of soil hydraulic properties across scales. <i>Hydrological Sciences Journal</i> , 2019, 64, 165-178.	1.2	30
21	Experimental assessment of a new comprehensive model for single ring infiltration data. <i>Journal of Hydrology</i> , 2019, 573, 937-951.	2.3	29
22	Reactive transport of gentisic acid in a hematite-coated sand column: Experimental study and modeling. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3351-3366.	1.6	28
23	Zinc and lead transfer in a contaminated roadside soil: Experimental study and modeling. <i>Journal of Hazardous Materials</i> , 2009, 161, 1499-1505.	6.5	27
24	Velocity Distribution in Open Channel Flows: Analytical Approach for the Outer Region. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 37-43.	0.7	27
25	Sedimentary and hydraulic characterization of a heterogeneous glaciofluvial deposit: Application to the modeling of unsaturated flow. <i>Engineering Geology</i> , 2013, 166, 127-139.	2.9	27
26	Influence of Carbonation on the Microstructure and Hydraulic Properties of a Basic Oxygen Furnace Slag. <i>Vadose Zone Journal</i> , 2013, 12, 1-15.	1.3	26
27	Estimating the macroscopic capillary length from Beerkan infiltration experiments and its impact on saturated soil hydraulic conductivity predictions. <i>Journal of Hydrology</i> , 2020, 589, 125159.	2.3	26
28	Comparing Beerkan infiltration tests with rainfall simulation experiments for hydraulic characterization of a sandy loam soil. <i>Hydrological Processes</i> , 2017, 31, 3520-3532.	1.1	25
29	Analysis of the Role of Tortuosity and Infiltration Constants in the Beerkan Method. <i>Soil Science Society of America Journal</i> , 2012, 76, 1999-2005.	1.2	24
30	Coupling hydraulic and biological measurements highlights the key influence of algal biofilm on infiltration basin performance. <i>Ecohydrology</i> , 2014, 7, 950-964.	1.1	24
31	Influence of the \hat{I}^2 parameter of the Haverkamp model on the transient soil water infiltration curve. <i>Journal of Hydrology</i> , 2018, 564, 222-229.	2.3	24
32	Spatial distribution of sediments and transfer properties in soils in a stormwater infiltration basin. <i>Journal of Soils and Sediments</i> , 2010, 10, 1499-1509.	1.5	23
33	A general Beerkan Estimation of Soil Transfer parameters method predicting hydraulic parameters of any unimodal water retention and hydraulic conductivity curves: Application to the Kosugi soil hydraulic model without using particle size distribution data. <i>Advances in Water Resources</i> , 2019, 129, 118-130.	1.7	23
34	BEST-2K Method for Characterizing Dual-Permeability Unsaturated Soils with Pondered and Tension Infiltrimeters. <i>Vadose Zone Journal</i> , 2019, 18, 1-20.	1.3	23
35	Storm water retention and actual evapotranspiration performances of experimental green roofs in French oceanic climate. <i>European Journal of Environmental and Civil Engineering</i> , 2016, 20, 344-362.	1.0	22
36	Hydraulic characterization and hydrological behaviour of a pilot permeable pavement in an urban centre, Brazil. <i>Hydrological Processes</i> , 2016, 30, 4242-4254.	1.1	22

#	ARTICLE	IF	CITATIONS
37	Comparing Transient and Steady-State Analysis of Single-Ring Infiltrometer Data for an Abandoned Field Affected by Fire in Eastern Spain. <i>Water (Switzerland)</i> , 2018, 10, 514.	1.2	22
38	Water Flow Variability Affects Adsorption and Oxidation of Ciprofloxacin onto Hematite. <i>Environmental Science & Technology</i> , 2019, 53, 10102-10109.	4.6	21
39	Modelling Soil Water Dynamics from Soil Hydraulic Parameters Estimated by an Alternative Method in a Tropical Experimental Basin. <i>Water (Switzerland)</i> , 2019, 11, 1007.	1.2	21
40	Can geotextiles modify the transfer of heavy metals transported by stormwater in infiltration basins?. <i>Water Science and Technology</i> , 2005, 51, 29-36.	1.2	20
41	Characterization of the Heterogeneous Flow and Pollutant Transfer in the Unsaturated Zone in the Fluvio-glacial Deposit. <i>Procedia Environmental Sciences</i> , 2013, 19, 955-964.	1.3	20
42	Reduction of Feasible Parameter Space of the Inverted Soil Hydraulic Parameter Sets for Kosugi Model. <i>Soil Science</i> , 2013, 178, 267-280.	0.9	20
43	Field measurement of effects of individual and combined application of biochar and polyacrylamide on erosion variables in loess and marl soils. <i>Science of the Total Environment</i> , 2020, 728, 138866.	3.9	20
44	In situ characterization of preferential flow by combining plot- and point-scale infiltration experiments on a hillslope. <i>Journal of Hydrology</i> , 2018, 563, 633-642.	2.3	19
45	Detecting infiltrated water and preferential flow pathways through time-lapse ground-penetrating radar surveys. <i>Science of the Total Environment</i> , 2020, 726, 138511.	3.9	19
46	The hydrologic behavior of Loess and Marl soils in response to biochar and polyacrylamide mulching under laboratorial rainfall simulation conditions. <i>Journal of Hydrology</i> , 2021, 592, 125620.	2.3	19
47	Combined effect of capillary barrier and layered slope on water, solute and nanoparticle transfer in an unsaturated soil at lysimeter scale. <i>Journal of Contaminant Hydrology</i> , 2015, 181, 69-81.	1.6	18
48	Experimental and modeling of the unsaturated transports of S-metolachlor and its metabolites in glaciofluvial vadose zone solids. <i>Journal of Contaminant Hydrology</i> , 2016, 190, 1-14.	1.6	18
49	Nanoparticle transport in water-unsaturated porous media: effects of solution ionic strength and flow rate. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	18
50	The relevance of Philip theory to Haverkamp quasi-exact implicit analytical formulation and its uses to predict soil hydraulic properties. <i>Journal of Hydrology</i> , 2019, 570, 816-826.	2.3	18
51	Soil hydraulic properties estimation from one-dimensional infiltration experiments using characteristic time concept. <i>Vadose Zone Journal</i> , 2020, 19, e20068.	1.3	17
52	Water infiltration in an aquifer recharge basin affected by temperature and air entrapment. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 222-233.	0.7	16
53	Assessing Water Infiltration and Soil Water Repellency in Brazilian Atlantic Forest Soils. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1950.	1.3	16
54	An open-source instrumentation package for intensive soil hydraulic characterization. <i>Journal of Hydrology</i> , 2020, 582, 124492.	2.3	15

#	ARTICLE	IF	CITATIONS
55	Three- and four-term approximate expansions of the Haverkamp formulation to estimate soil hydraulic properties from disc infiltrometer measurements. <i>Hydrological Processes</i> , 2020, 34, 5543-5556.	1.1	15
56	Assessment of the Physically-Based Hydrus-1D Model for Simulating the Water Fluxes of a Mediterranean Cropping System. <i>Water (Switzerland)</i> , 2019, 11, 1657.	1.2	14
57	Rapid and accurate measurement methods for determining soil hydraulic properties: A review. <i>Journal of Hydrology and Hydromechanics</i> , 2021, 69, 121-139.	0.7	14
58	A Simple Correction Term to Model Infiltration in Water-Repellent Soils. <i>Water Resources Research</i> , 2021, 57, e2020WR028539.	1.7	13
59	Ecological Engineering Approaches to Improve Hydraulic Properties of Infiltration Basins Designed for Groundwater Recharge. <i>Environmental Science & Technology</i> , 2015, 49, 9936-9944.	4.6	12
60	The role of heterogeneous lithology in a glaciofluvial deposit on unsaturated preferential flow – a numerical study. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 209-221.	0.7	12
61	Interplay between Molecular Diffusion and Advection during Solute Transport in Macroporous Media. <i>Vadose Zone Journal</i> , 2019, 18, 1-15.	1.3	12
62	Deriving physical and unique bimodal soil Kosugi hydraulic parameters from inverse modelling. <i>Advances in Water Resources</i> , 2021, 153, 103933.	1.7	11
63	Colloid Transport in Aggregated Porous Media with Intra- and Interaggregate Porosities. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 6553-6567.	1.8	10
64	Hydrodynamic Characterization of Sustainable Urban Drainage Systems (SuDS) by Using Beerkan Infiltration Experiments. <i>Water (Switzerland)</i> , 2019, 11, 660.	1.2	10
65	Sequential infiltration analysis of infiltration curves measured with disc infiltrometer in layered soils. <i>Journal of Hydrology</i> , 2021, 600, 126542.	2.3	10
66	Vadose Zone Heterogeneity Effect on Unsaturated Water Flow Modeling at Meso-Scale. <i>Journal of Water Resource and Protection</i> , 2015, 07, 353-368.	0.3	10
67	A scaling procedure for straightforward computation of sorptivity. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5083-5104.	1.9	9
68	Evaluation of the phytotoxicity of contaminated sediments deposited on soil II. Impact of water draining from deposits on the development and physiological status of neighbouring plants at growth stage. <i>Chemosphere</i> , 2006, 62, 1311-1323.	4.2	8
69	Thematic Issue on Soil Water Infiltration. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 205-208.	0.7	8
70	Does the efficiency of grazer introduction to restore and preserve the hydraulic performance of infiltration basins depend on the physical and biological characteristics of the infiltration media?. <i>Ecological Engineering</i> , 2018, 116, 127-132.	1.6	8
71	BEST-WR: An adapted algorithm for the hydraulic characterization of hydrophilic and water-repellent soils. <i>Journal of Hydrology</i> , 2021, 603, 126936.	2.3	8
72	Tracing Water Flow and Colloidal Particles Transfer in an Unsaturated Soil. <i>Journal of Water Resource and Protection</i> , 2014, 06, 696-709.	0.3	8

#	ARTICLE	IF	CITATIONS
73	Combined Effect of Infiltration, Capillary Barrier and Sloping Layered Soil on Flow and Solute Transfer in a Heterogeneous Lysimeter. <i>Open Journal of Modern Hydrology</i> , 2013, 03, 138-153.	0.4	8
74	Spatial and Temporal Stability of Major and Trace Element Leaching in Urban Stormwater Sediments. <i>Open Journal of Soil Science</i> , 2017, 07, 347-365.	0.3	8
75	Assessment of hydraulic properties of technosols using Beerkan and multiple tension disc infiltration methods. <i>European Journal of Soil Science</i> , 2019, 70, 1049-1062.	1.8	7
76	Field validation of a physically-based model for bioretention systems. <i>Journal of Cleaner Production</i> , 2021, 312, 127636.	4.6	7
77	Coupling time-lapse ground penetrating radar surveys and infiltration experiments to characterize two types of non-uniform flow. <i>Science of the Total Environment</i> , 2022, 806, 150410.	3.9	7
78	Profil de vitesses turbulent : une nouvelle loi pour les canaux Ã©troits. <i>Houille Blanche</i> , 2010, 96, 65-70.	0.3	6
79	Investigating the impact of exit effects on solute transport in macroporous media. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 671-683.	1.9	5
80	Lead Mobilization and Speciation in Mining Waste: Experiments and Modeling. <i>Minerals (Basel)</i> , 2021, 11, 257.	0.8	5
81	On Infiltration and Infiltration Characteristic Times. <i>Water Resources Research</i> , 2022, 58, .	1.7	5
82	Current Insights into Nonuniform Flow across Scales, Processes, and Applications. <i>Vadose Zone Journal</i> , 2019, 18, 190113.	1.3	4
83	Parameterization of a comprehensive explicit model for single-ring infiltration. <i>Journal of Hydrology</i> , 2021, 601, 126801.	2.3	4
84	HyPix: 1D physically based hydrological model with novel adaptive time-stepping management and smoothing dynamic criterion for controlling Newtonâ€™s Raphson step. <i>Environmental Modelling and Software</i> , 2022, 153, 105386.	1.9	4
85	Identification of the artifact contribution to two urban Technosols by coupling a sorting test, chemical analyses, and a least absolute residual procedure. <i>Journal of Soils and Sediments</i> , 2019, 19, 683-701.	1.5	3
86	ANCâ€™BNC Titrations and Geochemical Modeling for Characterizing Calcareous and Siliceous Mining Waste. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 257.	0.8	3
87	Simplified characteristic time method for accurate estimation of the soil hydraulic parameters from oneâ€™dimensional infiltration experiments. <i>Vadose Zone Journal</i> , 2021, 20, e20117.	1.3	3
88	Trincheira de infiltraÃ§Ã£o como tÃ©cnica compensatÃ³ria no manejo das Ãguas pluviais urbanas. <i>Ambiente ConstruÃdo</i> , 2016, 16, 53-72.	0.2	2
89	Effect of the choice of different methods on the permeable pavement hydraulic characterization and hydrological classification. <i>Journal of Hydrology and Hydromechanics</i> , 2021, 69, 332-346.	0.7	2
90	Ecoulement et transfert colloidal dans un milieu modÃ©le Ã double porositÃ©. <i>Houille Blanche</i> , 2010, 96, 86-92.	0.3	2

#	ARTICLE	IF	CITATIONS
91	Water Dynamics in an Infiltration Trench in an Urban Centre in Brazil: Monitoring and Modelling. Water (Switzerland), 2022, 14, 513.	1.2	2
92	Transport Behavior of RB5 Dye in Alluvial Soil in the Northeast of Brazil. Water (Switzerland), 2022, 14, 1000.	1.2	2
93	Unsaturated Soil Hydraulic Properties. , 2016, , 181-287.		1
94	Transfert de polluants depuis une ancienne dÃ©charge urbaine. Techniques - Sciences - Methodes, 2011, , 62-71.	0.0	1
95	Soils with Specific Features. , 2016, , 289-354.		1
96	Influence d'une hÃ©tÃ©rogÃ©nÃ©itÃ© macroporale sur les processus de transport de solutÃ© dans un milieu poreux: expÃ©rimentations sur sols modÃ©les et simulations par la mÃ©thode de Lattice-Boltzmann. Houille Blanche, 2017, 103, 32-38.	0.3	0
97	Transfer of Heavy Metals in a Soil Amended with Geotextiles. , 2002, , 162-175.		0