

Horst Herbert Gerke

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5378731/publications.pdf>

Version: 2024-02-01

156
papers

6,399
citations

94433

37
h-index

76900

74
g-index

177
all docs

177
docs citations

177
times ranked

4782
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of soil mechanical stability and hydraulic permeability of the interface between coated biopore and matrix pore regions. <i>Geoderma</i> , 2022, 410, 115673.	5.1	9
2	Soil Surface Micro-Topography by Structure-from-Motion Photogrammetry for Monitoring Density and Erosion Dynamics. <i>Frontiers in Environmental Science</i> , 2022, 9, .	3.3	4
3	Discrete element modeling of aggregate shape and internal structure effects on Weibull distribution of tensile strength. <i>Soil and Tillage Research</i> , 2022, 219, 105341.	5.6	7
4	Estimation of Stagnosol Hydraulic Properties and Water Flow Using Uni- and Bimodal Porosity Models in Erosion-Affected Hillslope Vineyard Soils. <i>Agronomy</i> , 2022, 12, 33.	3.0	6
5	Mercury intrusion porosimetry and centrifuge methods for extendedâ€range retention curves of soil and porous rock samples. <i>Vadose Zone Journal</i> , 2022, 21, .	2.2	8
6	Dynamics of Soil CO ₂ Efflux and Vertical CO ₂ Production in a European Beech and a Scots Pine Forest. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	2.3	4
7	Same soil, different climate: Crop model intercomparison on translocated lysimeters. <i>Vadose Zone Journal</i> , 2022, 21, .	2.2	4
8	Effects of shallow non-inversion tillage on sandy loam soil properties and winter rye yield in organic farming. <i>Soil and Tillage Research</i> , 2022, 222, 105435.	5.6	5
9	Tracing lateral subsurface flow in layered soils by undisturbed monolith sampling, targeted laboratory experiments, and modelâ€based analysis. <i>Vadose Zone Journal</i> , 2022, 21, .	2.2	2
10	Soil Nitrogen Dynamics in a Managed Temperate Grassland Under Changed Climatic Conditions. <i>Water (Switzerland)</i> , 2021, 13, 931.	2.7	9
11	FTIR spectral band shifts explained by OMâ€cation interactions. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 388-397.	1.9	44
12	Spatially-distributed microbial enzyme activities at intact, coated macropore surfaces in Luvisol Bt-horizons. <i>Soil Biology and Biochemistry</i> , 2021, 156, 108193.	8.8	8
13	Wavelet analysis of soil water state variables for identification of lateral subsurface flow: Lysimeter vs. field data. <i>Vadose Zone Journal</i> , 2021, 20, e20129.	2.2	6
14	Response of water fluxes and biomass production to climate change in permanent grassland soil ecosystems. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6087-6106.	4.9	8
15	Response of Soil Dehydrogenase Activity to Salinity and Cadmium Species. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 530-536.	3.4	13
16	Fluorescence imaging for mm-scale observation of macropore-matrix mass transfer: Calibration experiments. <i>Geoderma</i> , 2020, 360, 114002.	5.1	11
17	Approach for using measured soil gas diffusion coefficients in Hydrus 1D with examples from forest soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2020, 183, 562-566.	1.9	2
18	Dualâ€Permeability Model Improvements for Representation of Preferential Flow in Fractured Clays. <i>Water Resources Research</i> , 2020, 56, e2020WR027304.	4.2	19

#	ARTICLE	IF	CITATIONS
19	Macroporeâ€‘matrix mass transfer of reactive solutes quantified by fluorescence imaging. <i>Vadose Zone Journal</i> , 2020, 19, e20078.	2.2	2
20	Anisotropy of unsaturated hydraulic properties of compacted mineral capping systems seven years after construction. <i>Soil and Tillage Research</i> , 2020, 204, 104702.	5.6	6
21	Crop growth and soil water fluxes at erosionâ€‘affected arable sites: Using weighing lysimeter data for model intercomparison. <i>Vadose Zone Journal</i> , 2020, 19, e20058.	2.2	17
22	Laser-based 3D microscopic gauging of soil aggregate coating thickness and volume. <i>Soil and Tillage Research</i> , 2020, 204, 104715.	5.6	5
23	Effect of artificial soil compaction in landfill capping systems on anisotropy of airâ€‘permeability. <i>Journal of Plant Nutrition and Soil Science</i> , 2020, 183, 144-154.	1.9	9
24	Anisotropy of unsaturated soil hydraulic properties of eroded Luvisol after conversion to hayfield comparing alfalfa and grass plots. <i>Soil and Tillage Research</i> , 2020, 198, 104553.	5.6	19
25	Responses of soil water storage and crop water use efficiency to changing climatic conditions: a lysimeter-based space-for-time approach. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1211-1225.	4.9	22
26	Volumeâ€‘related quantification of organic carbon content and cation exchange capacity of macropore surfaces in Bt horizons. <i>Vadose Zone Journal</i> , 2020, 19, e20069.	2.2	7
27	Simultaneous determination of wettability and shrinkage in an organic residue amended loamy topsoil. <i>Journal of Hydrology and Hydromechanics</i> , 2020, 68, 111-118.	2.0	4
28	Brilliant Blue sorption characteristics of clay-organic aggregate coatings from Bt horizons. <i>Soil and Tillage Research</i> , 2020, 201, 104635.	5.6	4
29	Spectroscopic characterization of mucilage (Chia seed) and polygalacturonic acid. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 888-895.	1.9	14
30	Effect of Compaction on Soil Physical Properties of Differently Textured Landfill Liner Materials. <i>Geosciences (Switzerland)</i> , 2019, 9, 1.	2.2	71
31	Separation of Soil Macropore Types in Threeâ€‘Dimensional Xâ€‘Ray Computed Tomography Images Based on Pore Geometry Characteristics. <i>Vadose Zone Journal</i> , 2019, 18, 1-13.	2.2	16
32	Representation of Plotâ€‘Scale Soil Heterogeneity in Dualâ€‘Domain Effective Flow and Transport Models with Mass Exchange. <i>Vadose Zone Journal</i> , 2019, 18, 1-14.	2.2	9
33	Quantification and Prediction of Nighttime Evapotranspiration for Two Distinct Grassland Ecosystems. <i>Water Resources Research</i> , 2019, 55, 2961-2975.	4.2	38
34	Determining Millimeterâ€‘Scale Maps of Cation Exchange Capacity at Macropore Surfaces in Bt Horizons. <i>Vadose Zone Journal</i> , 2019, 18, 1-11.	2.2	8
35	Relating soil organic matter composition to soil water repellency for soil biopore surfaces different in history from two Bt horizons of a Haplic Luvisol. <i>Ecohydrology</i> , 2018, 11, e1949.	2.4	25
36	Two-dimensional distribution of soil organic carbon at intact macropore surfaces in BT-horizons. <i>Soil and Tillage Research</i> , 2018, 176, 1-9.	5.6	15

#	ARTICLE	IF	CITATIONS
37	Root development of winter wheat in erosion-affected soils depending on the position in a hummocky ground moraine soil landscape. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 147-157.	1.9	22
38	Quantifying Subsurface Lateral Flow along Sloping Horizon Boundaries in Soil Profiles of a Hummocky Ground Moraine. <i>Vadose Zone Journal</i> , 2018, 17, 170106.	2.2	12
39	Interdisciplinary Geo-ecological Research across Time Scales in the Northeast German Lowland Observatory (TERENO-NE). <i>Vadose Zone Journal</i> , 2018, 17, 1-25.	2.2	29
40	Shrinkage Characteristics of Boulder Marl as Sustainable Mineral Liner Material for Landfill Capping Systems. <i>Sustainability</i> , 2018, 10, 4025.	3.2	10
41	Suitability of Boulder Marl and Marsh Clay as Sealing Substrates for Landfill Capping Systems – A Practical Comparison. <i>Geosciences (Switzerland)</i> , 2018, 8, 356.	2.2	5
42	Modeling Solute Mass Exchange between Pore Regions in Slurry-Injected Soil Columns during Intermittent Irrigation. <i>Vadose Zone Journal</i> , 2018, 17, 180006.	2.2	8
43	Frontiers in Hydropedology: Interdisciplinary Research from Soil Architecture to the Critical Zone. <i>Vadose Zone Journal</i> , 2018, 17, 1-4.	2.2	4
44	Assessment of Leachate Production from a Municipal Solid-Waste Landfill through Water-Balance Modeling. <i>Geosciences (Switzerland)</i> , 2018, 8, 372.	2.2	15
45	On the role of hydrologic processes in soil and landscape evolution modeling: concepts, complications and partial solutions. <i>Earth-Science Reviews</i> , 2018, 185, 1088-1106.	9.1	45
46	Spatial Distribution of Mucilage in the Rhizosphere Measured With Infrared Spectroscopy. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	24
47	Effect of vegetation and its succession on water repellency in sandy soils. <i>Ecohydrology</i> , 2018, 11, e1991.	2.4	37
48	Explaining soil organic matter composition based on associations between OM and polyvalent cations. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 721-736.	1.9	11
49	Permeabilidad y difusión de aire en el subsuelo de un Andisol sujeto a distintas estrategias de mejoramiento de praderas. <i>Agro Sur</i> , 2018, 46, 23-34.	0.2	7
50	Organic waste recycling in agriculture and related effects on soil water retention and plant available water: a review. <i>Agronomy for Sustainable Development</i> , 2017, 37, 1.	5.3	101
51	Water balance and leaching of dissolved organic and inorganic carbon of eroded Luvisols using high precision weighing lysimeters. <i>Soil and Tillage Research</i> , 2017, 165, 144-160.	5.6	32
52	Thematic Issue on Soil Water Infiltration. <i>Journal of Hydrology and Hydromechanics</i> , 2017, 65, 205-208.	2.0	8
53	Soil Variability and Biogeochemical Fluxes: Toward a Better Understanding of Soil Processes at the Land Surface. <i>Vadose Zone Journal</i> , 2017, 16, 1-4.	2.2	3
54	Spatial Distribution of Organic Matter Compounds at Intact Macropore Surfaces Predicted by DRIFT Spectroscopy. <i>Vadose Zone Journal</i> , 2017, 16, 1-11.	2.2	12

#	ARTICLE	IF	CITATIONS
55	Scales of Water Retention Dynamics Observed in Eroded Luvisols from an Arable Postglacial Soil Landscape. <i>Vadose Zone Journal</i> , 2017, 16, 1-17.	2.2	20
56	Roughness of biopores and cracks in Bt-horizons assessed by confocal laser scanning microscopy. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 529-536.	1.9	12
57	The importance of landscape diversity for carbon fluxes at the landscape level: small-scale heterogeneity matters. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 601-617.	6.5	32
58	Autocorrelation analysis of high resolution weighing lysimeter time series as a basis for determination of precipitation. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 784-798.	1.9	12
59	Processes and Modeling of Initial Soil and Landscape Development: A Review. <i>Vadose Zone Journal</i> , 2016, 15, 1-20.	2.2	10
60	Analyzing Management-Induced Dynamics of Soluble Organic Matter Composition in Soils from Long-Term Field Experiments. <i>Vadose Zone Journal</i> , 2016, 15, 1-10.	2.2	4
61	Analyzing organic matter composition at intact biopore and crack surfaces by combining DRIFT spectroscopy and Pyrolysis-Field Ionization Mass Spectrometry. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 5-17.	1.9	24
62	Interpretation of infrared spectra for OM characterization of soil structural surfaces of Bt-horizons. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 29-38.	1.9	8
63	TERENO-SOILCan: a lysimeter-network in Germany observing soil processes and plant diversity influenced by climate change. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	73
64	Droplet infiltration dynamics and soil wettability related to soil organic matter of soil aggregate coatings and interiors. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 111-120.	2.0	35
65	Soil organic matter composition along a slope in an erosion-affected arable landscape in North East Germany. <i>Soil and Tillage Research</i> , 2016, 156, 209-218.	5.6	27
66	Interactions between crop, water, and dissolved organic and inorganic carbon in a hummocky landscape with erosion-affected pedogenesis. <i>Soil and Tillage Research</i> , 2016, 156, 230-244.	5.6	26
67	Droplet infiltration and organic matter composition of intact crack and biopore surfaces from clay-illuvial horizons. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 250-260.	1.9	37
68	Preface to the special section "Biohydrology - Water for life". <i>Ecohydrology</i> , 2015, 8, 353-354.	2.4	0
69	Tracer, Dissolved Organic Carbon, and Colloid Leaching from Erosion-Affected Arable Hillslope Soils. <i>Vadose Zone Journal</i> , 2015, 14, 1-18.	2.2	9
70	Simulated Preferential Water Flow and Solute Transport in Shrinking Soils. <i>Vadose Zone Journal</i> , 2015, 14, 1-22.	2.2	28
71	Water table effects on measured and simulated fluxes in weighing lysimeters for differently-textured soils. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 82-92.	2.0	4
72	Water and Dissolved Carbon Fluxes in an Eroding Soil Landscape Depending on Terrain Position. <i>Vadose Zone Journal</i> , 2014, 13, 1-14.	2.2	29

#	ARTICLE	IF	CITATIONS
73	Estimability Analysis for Optimization of Hysteretic Soil Hydraulic Parameters Using Data of a Field Irrigation Experiment. <i>Transport in Porous Media</i> , 2014, 103, 535-562.	2.6	5
74	Micro-scale dry bulk density variation around earthworm (<i>Lumbricus terrestris</i> L.) burrows based on X-ray computed tomography. <i>Geoderma</i> , 2014, 213, 471-477.	5.1	50
75	Root system development of <i>Lotus corniculatus</i> L. in calcareous sands with embedded finer-textured fragments in an initial soil. <i>Plant and Soil</i> , 2013, 368, 281-296.	3.7	15
76	Characterization of Organic Matter Composition of Soil and Flow Path Surfaces Based on Physicochemical Principles—A Review. <i>Advances in Agronomy</i> , 2013, , 117-177.	5.2	37
77	Morphology of physical soil crusts and infiltration patterns in an artificial catchment. <i>Soil and Tillage Research</i> , 2013, 129, 1-8.	5.6	35
78	Initial hydrogeomorphic development and rill network evolution in an artificial catchment. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1496-1512.	2.5	18
79	Comparison of real evapotranspiration measured by weighing lysimeters with simulations based on the Penman formula and a crop growth model. <i>Journal of Hydrology and Hydromechanics</i> , 2013, 61, 161-172.	2.0	20
80	Millimetre-scale distribution of organic matter composition at intact biopore and crack surfaces. <i>European Journal of Soil Science</i> , 2013, 64, 757-769.	3.9	27
81	A Three-Dimensional Structure and Process Model for Integrated Hydro-Geo-Pedologic Analysis of a Constructed Hydrological Catchment. <i>Vadose Zone Journal</i> , 2013, 12, 1-17.	2.2	7
82	Geophysical-Based Modeling of a Kettle Hole Catchment of the Morainic Soil Landscape. <i>Vadose Zone Journal</i> , 2013, 12, 1-18.	2.2	18
83	Scenario-Based Three-Dimensional Distributed Sediment Structures for a Constructed Hydrological Catchment. <i>Vadose Zone Journal</i> , 2013, 12, 1-23.	2.2	5
84	Solute Mass Transfer Effects in Two-Dimensional Dual-Permeability Modeling of Bromide Leaching From a Tile-Drained Field. <i>Vadose Zone Journal</i> , 2013, 12, 1-21.	2.2	26
85	Macroscopic Representation of the Interface between Flow Domains in Structured Soil. <i>Vadose Zone Journal</i> , 2012, 11, vzt2011.0125.	2.2	24
86	Effects of Ground-dwelling Beetle Burrows on Infiltration Patterns and Pore Structure of Initial Soil Surfaces. <i>Vadose Zone Journal</i> , 2012, 11, .	2.2	23
87	Combining dual-continuum approach with diffusion wave model to include a preferential flow component in hillslope scale modeling of shallow subsurface runoff. <i>Advances in Water Resources</i> , 2012, 44, 113-125.	3.8	36
88	Dual-permeability model for flow in shrinking soil with dominant horizontal deformation. <i>Water Resources Research</i> , 2012, 48, .	4.2	51
89	Vertical bulk density distribution in C-horizons from marley till as indicator for erosion history in a hummocky post-glacial soil landscape. <i>Soil and Tillage Research</i> , 2012, 125, 116-122.	5.6	18
90	Hydraulic properties of characteristic horizons depending on relief position and structure in a hummocky glacial soil landscape. <i>Soil and Tillage Research</i> , 2012, 125, 123-131.	5.6	34

#	ARTICLE	IF	CITATIONS
91	Evaluation of remotely-sensed DEMs and modification based on plausibility rules and initial sediment budgets of an artificially-created catchment. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 708-725.	2.5	20
92	Patterns and processes of initial terrestrial-ecosystem development. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 229-239.	1.9	61
93	3D initial sediment distribution and quantification of mass balances of an artificially-created hydrological catchment based on DEMs from aerial photographs using GOCAD. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 87-100.	2.9	19
94	Preferential Flow Effects on Infiltration and Runoff in Grassland and Forest Soils. <i>Vadose Zone Journal</i> , 2011, 10, 367-377.	2.2	125
95	A structure generator for modelling the initial sediment distribution of an artificial hydrologic catchment. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3617-3638.	4.9	9
96	Uncertainty of variance component estimates in nested sampling: a case study on the field-scale spatial variability of a restored soil. <i>European Journal of Soil Science</i> , 2011, 62, 479-495.	3.9	14
97	A review of the changes in the soil pore system due to soil deformation: A hydrodynamic perspective. <i>Soil and Tillage Research</i> , 2011, 115-116, 1-15.	5.6	245
98	Modelling aeolian sediment transport during initial soil development on an artificial catchment using WEPS and aerial images. <i>Soil and Tillage Research</i> , 2011, 117, 148-162.	5.6	19
99	Correcting Microtopography Effects on DRIFT Mapping Signals of Organic Matter at Intact Soil Aggregate Surfaces. <i>Soil Science Society of America Journal</i> , 2011, 75, 1626-1639.	2.2	13
100	Bypass Flow in Soil. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 100-105.	0.1	4
101	DRIFT Mapping of Organic Matter Composition at Intact Soil Aggregate Surfaces. <i>Vadose Zone Journal</i> , 2010, 9, 317-324.	2.2	63
102	Structures and hydrologic function of soil landscapes with kettle holes using an integrated hydropedological approach. <i>Journal of Hydrology</i> , 2010, 393, 123-132.	5.4	67
103	Noninvasive Observations of Flow Patterns in Locally Heterogeneous Mine Soils using Neutron Radiation. <i>Vadose Zone Journal</i> , 2010, 9, 362-372.	2.2	16
104	Impact of Soil Microstructure Geometry on DRIFT Spectra: Comparisons with Beam Trace Modeling. <i>Soil Science Society of America Journal</i> , 2010, 74, 1976-1986.	2.2	17
105	Preferential and Unstable Flow: From the Pore to the Catchment Scale. <i>Vadose Zone Journal</i> , 2010, 9, 207-212.	2.2	54
106	In Situ DRIFT Characterization of Organic Matter Composition on Soil Structural Surfaces. <i>Soil Science Society of America Journal</i> , 2009, 73, 531-540.	2.2	53
107	Single- and dual-porosity modelling of flow in reclaimed mine soil cores with embedded lignitic fragments. <i>Journal of Contaminant Hydrology</i> , 2009, 104, 90-106.	3.3	14
108	Modelling field-data of preferential flow in paddy soil induced by earthworm burrows. <i>Journal of Contaminant Hydrology</i> , 2009, 104, 126-136.	3.3	39

#	ARTICLE	IF	CITATIONS
109	Spatial distribution of maize roots by complete 3D soil monolith sampling. <i>Plant and Soil</i> , 2009, 315, 297-314.	3.7	33
110	Evaluation of a core sampling scheme to characterize root length density of maize. <i>Plant and Soil</i> , 2009, 316, 205-215.	3.7	21
111	Ecological safe management of terraced rice paddy landscapes. <i>Soil and Tillage Research</i> , 2009, 102, 179-192.	5.6	36
112	Modelling soil landscape genesis – A “time split” approach for hummocky agricultural landscapes. <i>Geoderma</i> , 2008, 145, 480-493.	5.1	122
113	Assessment of Chinese paddy-soil structure using X-ray computed tomography. <i>Geoderma</i> , 2008, 145, 303-314.	5.1	52
114	Cation Exchange Capacity and Composition of Soluble Soil Organic Matter Fractions. <i>Soil Science Society of America Journal</i> , 2008, 72, 1278-1285.	2.2	60
115	Surface Boundary Conditions in Two-Dimensional Dual-Permeability Modeling of Tile Drain Bromide Leaching. <i>Vadose Zone Journal</i> , 2008, 7, 1287-1301.	2.2	26
116	Preferential Flow Patterns in Paddy Fields Using a Dye Tracer. <i>Vadose Zone Journal</i> , 2007, 6, 105-115.	2.2	106
117	Two-Dimensional Dual-Permeability Analyses of a Bromide Tracer Experiment on a Tile-Drained Field. <i>Vadose Zone Journal</i> , 2007, 6, 651-667.	2.2	36
118	Field Measurements of Air and Water Pressures in a Heterogeneous Forest-Reclaimed Lignitic Mine Soil. <i>Vadose Zone Journal</i> , 2007, 6, 849-854.	2.2	9
119	Noncontact Shrinkage Curve Determination for Soil Clods and Aggregates by Three-Dimensional Optical Scanning. <i>Soil Science Society of America Journal</i> , 2007, 71, 1448-1454.	2.2	28
120	Long-term effects of crop rotation and fertilization on soil organic matter composition. <i>European Journal of Soil Science</i> , 2007, 58, 1460-1470.	3.9	55
121	Root effects on soil water and hydraulic properties. <i>Biologia (Poland)</i> , 2007, 62, 557-561.	1.5	13
122	Preferential flow descriptions for structured soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2006, 169, 382-400.	1.9	334
123	Modeling Two-Dimensional Water Flow and Bromide Transport in a Heterogeneous Lignitic Mine Soil. <i>Vadose Zone Journal</i> , 2006, 5, 14-26.	2.2	10
124	Spatial and Temporal Dynamics of Preferential Bromide Movement towards a Tile Drain. <i>Vadose Zone Journal</i> , 2005, 4, 79-88.	2.2	42
125	EVALUATION OF THE ARYA-PARIS MODEL FOR ESTIMATING WATER RETENTION CHARACTERISTICS OF LIGNITIC MINE SOILS. <i>Soil Science</i> , 2005, 170, 483-494.	0.9	13
126	Composition of Organic Matter Fractions for Explaining Wettability of Three Forest Soils. <i>Soil Science Society of America Journal</i> , 2005, 69, 57.	2.2	281

#	ARTICLE	IF	CITATIONS
127	Assessment of preferential flow processes in a forest-reclaimed lignitic mine soil by multicell sampling of drainage water and three tracers. <i>Journal of Hydrology</i> , 2005, 303, 16-37.	5.4	46
128	Estimating spatial distributions of hydraulic parameters for a two-scale structured heterogeneous lignitic mine soil. <i>Journal of Hydrology</i> , 2005, 312, 109-124.	5.4	22
129	Characterizing organic matter of soil aggregate coatings and biopores by Fourier transform infrared spectroscopy. <i>European Journal of Soil Science</i> , 2004, 55, 219-228.	3.9	138
130	Numerical evaluation of a second-order water transfer term for variably saturated dual-permeability models. <i>Water Resources Research</i> , 2004, 40, .	4.2	36
131	Flow path visualization in a lignitic mine soil using iodine-starch staining. <i>Geoderma</i> , 2004, 120, 121-135.	5.1	33
132	Dual-permeability modeling of preferential bromide leaching from a tile-drained glacial till agricultural field. <i>Journal of Hydrology</i> , 2004, 289, 239-257.	5.4	95
133	Effective Diffusion Coefficients of Soil Aggregates with Surface Skins. <i>Soil Science Society of America Journal</i> , 2002, 66, 1430-1438.	2.2	41
134	Estimating the hydraulic functions of dual-permeability models from bulk soil data. <i>Water Resources Research</i> , 2002, 38, 26-1-26-11.	4.2	57
135	Estimating Hydraulic Properties of Soil Aggregate Skins from Sorptivity and Water Retention. <i>Soil Science Society of America Journal</i> , 2002, 66, 26-36.	2.2	67
136	Estimating Hydraulic Properties of Soil Aggregate Skins from Sorptivity and Water Retention. <i>Soil Science Society of America Journal</i> , 2002, 66, 26.	2.2	33
137	Spatial variability of potential water repellency in a lignitic mine soil afforested with <i>Pinus nigra</i> . <i>Geoderma</i> , 2001, 102, 255-274.	5.1	61
138	Modelling the impact of physical and chemical heterogeneity on solute leaching in pyritic overburden mine spoils. <i>Ecological Engineering</i> , 2001, 17, 91-101.	3.6	34
139	Spatial distributions of lignite mine spoil properties for simulating 2-D variably saturated flow and transport. <i>Ecological Engineering</i> , 2001, 17, 103-114.	3.6	41
140	3D-Wurzelverteilung Sechzehnjähriger Schwarzkiefern in einem Kippenboden im Vergleich mit markierten Fließwegen. , 2001, , 18-23.		2
141	Modeling flow and transport in a two-dimensional dual-permeability system with spatially variable hydraulic properties. <i>Journal of Hydrology</i> , 2000, 238, 78-89.	5.4	178
142	Präferenzielle Wasser- und Luftbewegung in heterogenen aufgeforsteten Kippenböden im Lausitzer Braunkohletagebauegebiet (Teilprojekt 19). , 2000, , 258-274.		2
143	Beschreibung von Transport- und Umwandlungsvorgängen in der wasserungesättigten Zone heterogener Braunkohletagebau-Abraumkippen der Lausitz (Teilprojekt 15). , 2000, , 219-237.		0
144	Zusammenschau Transportprozesse. , 2000, , 332-346.		0

#	ARTICLE	IF	CITATIONS
145	Modeling long-term compost application effects on nitrate leaching. <i>Plant and Soil</i> , 1999, 213, 75-92.	3.7	41
146	Title is missing!. <i>Plant and Soil</i> , 1999, 213, 55-61.	3.7	64
147	Describing water flow in macroporous field soils using the modified macro model. <i>Journal of Hydrology</i> , 1999, 215, 135-152.	5.4	23
148	Title is missing!. , 1999, , 163-168.		1
149	Title is missing!. , 1999, , 169-184.		1
150	Modelling the effect of chemical heterogeneity on acidification and solute leaching in overburden mine spoils. <i>Journal of Hydrology</i> , 1998, 209, 166-185.	5.4	88
151	Macroscopic representation of structural geometry for simulating water and solute movement in dual-porosity media. <i>Advances in Water Resources</i> , 1996, 19, 343-357.	3.8	200
152	A dual-porosity model for simulating the preferential movement of water and solutes in structured porous media. <i>Water Resources Research</i> , 1993, 29, 305-319.	4.2	972
153	Evaluation of a first-order water transfer term for variably saturated dual-porosity flow models. <i>Water Resources Research</i> , 1993, 29, 1225-1238.	4.2	300
154	Effects of Aggregate Skins on Flow and Transport in Structured Soil. , 0, , .		0
155	Effects of Chemical Reaction Variability on Preferential Flow. , 0, , .		0
156	Structural Heterogeneity of Soil Clods: Correlating Weibull Parameters to Fracture Surface Topography. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0