

Doerthe Holthusen

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

476
citations

687335

13
h-index

677123

22
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28
all docs

28
docs citations

28
times ranked

362
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil porosity, permeability and static and dynamic strength parameters under native forest/grassland compared to no-tillage cropping. <i>Soil and Tillage Research</i> , 2018, 177, 113-124.	5.6	72
2	Impact of potassium concentration and matric potential on soil stability derived from rheological parameters. <i>Soil and Tillage Research</i> , 2010, 111, 75-85.	5.6	66
3	Soil functions and in situ stress distribution in subtropical soils as affected by land use, vehicle type, tire inflation pressure and plant residue removal. <i>Soil and Tillage Research</i> , 2018, 184, 78-92.	5.6	35
4	Controlled vertical stress in a modified amplitude sweep test (rheometry) for the determination of soil microstructure stability under transient stresses. <i>Geoderma</i> , 2017, 295, 129-141.	5.1	28
5	Physical properties of a Luvisol for different long-term fertilization treatments: II. Microscale behavior and its relation to the mesoscale. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 14-23.	1.9	26
6	Microstructural strength of four subtropical soils evaluated by rheometry: properties, difficulties and opportunities. <i>Scientia Agricola</i> , 2018, 75, 154-162.	1.2	24
7	Rheological Parameters as Affected by Water Tension in Subtropical Soils. <i>Revista Brasileira De Ciencia Do Solo</i> , 2016, 40, .	1.3	23
8	Viscoelasticity and shear resistance at the microscale of naturally structured and homogenized subtropical soils under undefined and defined normal stress conditions. <i>Soil and Tillage Research</i> , 2019, 191, 282-293.	5.6	22
9	Quantity of Hydrophobic Functional CH-Groups – Decisive for Soil Water Repellency Caused by Digestate Amendment. <i>International Agrophysics</i> , 2015, 29, 247-255.	1.7	21
10	Scale-dependent soil strengthening processes – What do we need to know and where to head for a sustainable environment?. <i>Soil and Tillage Research</i> , 2019, 195, 104388.	5.6	20
11	Physical properties of a Luvisol for different long-term fertilization treatments: I. Mesoscale capacity and intensity parameters. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 4-13.	1.9	18
12	Flow and deformation behavior at the microscale of soils from several long-term potassium fertilization trials in Germany. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 535-547.	1.9	14
13	Amplitude sweep tests to comprehensively characterize soil micromechanics: brittle and elastic interparticle bonds and their interference with major soil aggregation factors organic matter and water content. <i>Rheologica Acta</i> , 2020, 59, 545-563.	2.4	14
14	Elastic and plastic soil deformation and its influence on emission of greenhouse gases. <i>International Agrophysics</i> , 2016, 30, 173-184.	1.7	13
15	Soil density and oscillation frequency effects on viscoelasticity and shear resistance of subtropical Oxisols with varying clay content. <i>Soil and Tillage Research</i> , 2020, 203, 104677.	5.6	12
16	Resilience and microstructural resistance of Archaeological Dark Earths with different soil organic carbon contents in Western Amazonia, Brazil. <i>Geoderma</i> , 2020, 363, 114130.	5.1	11
17	Influence of homogenized residues of anaerobic digestate on the physicochemical properties of differently textured soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 261-269.	1.9	10
18	Determination of soil dispersion caused by anaerobic digestates: interferences of pH and soil charge with regard to soil texture and water content. <i>Journal of Soils and Sediments</i> , 2015, 15, 1491-1499.	3.0	8

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19	Biological Alteration of Flow Properties of Soil Samples From Two Bt Horizons of a Haplic Luvisol Determined With Rheometry. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	8
20	Soil solution composition affects microstructure of tropical saline alluvial soils in semi-arid environment. <i>Soil and Tillage Research</i> , 2020, 203, 104662.	5.6	8
21	Characterization of microstructural stability of biochar-amended Planosol under conventional tillage for irrigated lowland rice ecosystem. <i>Soil and Tillage Research</i> , 2021, 212, 105051.	5.6	7
22	Temporal dynamics of rheological properties of metakaolin-based geopolymers: Effects of synthesis parameters. <i>Construction and Building Materials</i> , 2021, 289, 123145.	7.2	6
23	Biochar Amendment Effects on Microstructure Resistance of a Sandy Loam Soil Under Oscillatory Stress. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 967-977.	3.4	5
24	Role of compaction and drying-wetting cycles on the capability of precompression stress to indicate load history of heavily disturbed soils. <i>Geoderma</i> , 2021, 401, 115344.	5.1	2
25	Investigating spatial relationships of soil friability and driving factors through co-regionalization with state-space analysis in a subtropical watershed. <i>Soil and Tillage Research</i> , 2021, 212, 105028.	5.6	1
26	The Rheological-Data Extraction Application: A time-saving tool for the extraction of measured rheological data from a specific rheometer-inherent software. <i>SoftwareX</i> , 2022, 18, 101055.	2.6	1
27	Potential of rheometry in detecting cohesive soils in Brazil as an additional tool to morphological field description and tensile resistance quantification. <i>Geoderma Regional</i> , 2022, 30, e00553.	2.1	1