

Doerthe Holthusen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

319

citations

12

h-index

17

g-index

28

ext. papers

417

ext. citations

4.5

avg, IF

3.73

L-index

#	Paper	IF	Citations
26	Impact of potassium concentration and matric potential on soil stability derived from rheological parameters. <i>Soil and Tillage Research</i> , 2010 , 111, 75-85	6.5	55
25	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	6.5	45
24	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	2.3	24
23	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	6.7	22
22	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	6.5	22
21	Rheological Parameters as Affected by Water Tension in Subtropical Soils. <i>Revista Brasileira De Ciencia Do Solo</i> , 2016 , 40,	1.5	20
20	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	2.3	16
19	Microstructural strength of four subtropical soils evaluated by rheometry: properties, difficulties and opportunities. <i>Scientia Agricola</i> , 2018 , 75, 154-162	2.5	15
18	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	6.5	14
17	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	6.5	13
16	Quantity of Hydrophobic Functional CH-Groups [Decisive for Soil Water Repellency Caused by Digestate Amendment. <i>International Agrophysics</i> , 2015 , 29, 247-255	2	12
15	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	2.3	12
14	Elastic and plastic soil deformation and its influence on emission of greenhouse gases. <i>International Agrophysics</i> , 2016 , 30, 173-184	2	10
13	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	2.3	8
12	Resilience and microstructural resistance of Archaeological Dark Earths with different soil organic carbon contents in Western Amazonia, Brazil. <i>Geoderma</i> , 2020 , 363, 114130	6.7	7
11	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	6.5	6
10	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,	4.8	6

9	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 ^{3,4}	5
8	Soil solution composition affects microstructure of tropical saline alluvial soils in semi-arid environment. <i>Soil and Tillage Research</i> , 2020 , 203, 104662	6.5 3
7	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	2.3 2
6	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	6.5 2
5	Temporal dynamics of rheological properties of metakaolin-based geopolymers: Effects of synthesis parameters. <i>Construction and Building Materials</i> , 2021 , 289, 123145	6.7 0
4	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	3.2 0
3	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	6.7 0
2	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	2.7 0
1	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	6.5