

John Koestel

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.

47
papers

1,477
citations

23
h-index

38
g-index

59
ext. papers

1,861
ext. citations

6
avg, IF

5.18
L-index

#	Paper	IF	Citations
47	Pedotransfer Functions in Earth System Science: Challenges and Perspectives. <i>Reviews of Geophysics</i> , 2017 , 55, 1199-1256	23.1	186
46	Influence of soil, land use and climatic factors on the hydraulic conductivity of soil. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 5185-5195	5.5	117
45	Understanding Preferential Flow in the Vadose Zone: Recent Advances and Future Prospects. <i>Vadose Zone Journal</i> , 2016 , 15, vzt2016.09.0075	2.7	115
44	Relations between macropore network characteristics and the degree of preferential solute transport. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 5255-5269	5.5	78
43	Connectivity and percolation of structural pore networks in a cultivated silt loam soil quantified by X-ray tomography. <i>Geoderma</i> , 2017 , 287, 71-79	6.7	77
42	Imaging and quantification of preferential solute transport in soil macropores. <i>Water Resources Research</i> , 2014 , 50, 4357-4378	5.4	65
41	Microbial spatial footprint as a driver of soil carbon stabilization. <i>Nature Communications</i> , 2019 , 10, 31217.4	5.8	
40	Effects of subsoil compaction on hydraulic properties and preferential flow in a Swedish clay soil. <i>Soil and Tillage Research</i> , 2016 , 156, 91-98	6.5	52
39	What determines the strength of preferential transport in undisturbed soil under steady-state flow?. <i>Geoderma</i> , 2014 , 217-218, 144-160	6.7	50
38	Comparison of Heterogeneous Transport Processes Observed with Electrical Resistivity Tomography in Two Soils. <i>Vadose Zone Journal</i> , 2010 , 9, 336-349	2.7	42
37	Evaluation of Nonparametric Shape Measures for Solute Breakthrough Curves. <i>Vadose Zone Journal</i> , 2011 , 10, 1261-1275	2.7	41
36	Using boosted regression trees to explore key factors controlling saturated and near-saturated hydraulic conductivity. <i>European Journal of Soil Science</i> , 2015 , 66, 744-756	3.4	40
35	Links between soil properties and steady-state solute transport through cultivated topsoil at the field scale. <i>Water Resources Research</i> , 2013 , 49, 790-807	5.4	40
34	Soil properties and susceptibility to preferential solute transport in tilled topsoil at the catchment scale. <i>Journal of Hydrology</i> , 2013 , 492, 190-199	6	37
33	Noninvasive 3-D Transport Characterization in a Sandy Soil Using ERT: 1. Investigating the Validity of ERT-derived Transport Parameters. <i>Vadose Zone Journal</i> , 2009 , 8, 711-722	2.7	37
32	Post-tillage evolution of structural pore space and saturated and near-saturated hydraulic conductivity in a clay loam soil. <i>Soil and Tillage Research</i> , 2017 , 165, 161-168	6.5	33
31	Long-term effects of grass-clover leys on the structure of a silt loam soil in a cold climate. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 247, 319-328	5.7	31

30	SoilJ: An ImageJ Plugin for the Semiautomatic Processing of Three-Dimensional X-ray Images of Soils. <i>Vadose Zone Journal</i> , 2018 , 17, 170062	2.7	31
29	Estimating the Permeability of Naturally Structured Soil From Percolation Theory and Pore Space Characteristics Imaged by X-Ray. <i>Water Resources Research</i> , 2018 , 54, 9255-9263	5.4	29
28	Noninvasive 3-D Transport Characterization in a Sandy Soil Using ERT: 2. Transport Process Inference. <i>Vadose Zone Journal</i> , 2009 , 8, 723-734	2.7	28
27	Preferential Transport in Macropores is Reduced by Soil Organic Carbon. <i>Vadose Zone Journal</i> , 2016 , 15, vzt2016.03.0021	2.7	26
26	Quantification of the structure evolution in a garden soil over the course of two years. <i>Geoderma</i> , 2019 , 338, 597-609	6.7	25
25	Spatial patterns of extracellular enzymes: Combining X-ray computed micro-tomography and 2D zymography. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 411-419	7.5	24
24	Scale and REV analyses for porosity and pore connectivity measures in undisturbed soil. <i>Geoderma</i> , 2020 , 366, 114206	6.7	22
23	Preferential Flow in a Pedological Perspective 2012 , 75-120		22
22	Imaging Brilliant Blue Stained Soil by Means of Electrical Resistivity Tomography. <i>Vadose Zone Journal</i> , 2009 , 8, 963-975	2.7	22
21	A framework for modelling soil structure dynamics induced by biological activity. <i>Global Change Biology</i> , 2020 , 26, 5382-5403	11.4	22
20	Three-Dimensional Printing of Macropore Networks of an Undisturbed Soil Sample. <i>Vadose Zone Journal</i> , 2015 , 14, vzt2014.08.0111	2.7	18
19	Dynamic upscaling of decomposition kinetics for carbon cycling models. <i>Geoscientific Model Development</i> , 2020 , 13, 1399-1429	6.3	13
18	X-ray computed tomography to predict soil N ₂ O production via bacterial denitrification and N ₂ O emission in contrasting bioenergy cropping systems. <i>GCB Bioenergy</i> , 2018 , 10, 894-909	5.6	13
17	Assessing strategies to mitigate phosphorus leaching from drained clay soils. <i>Ambio</i> , 2018 , 47, 114-123	6.5	9
16	Effects of tillage and liming on macropore networks derived from X-ray tomography images of a silty clay soil. <i>Soil Use and Management</i> , 2018 , 34, 197-205	3.1	9
15	Reply to "Comment on "Understanding preferential flow in the vadose zone: Recent advances and future prospects" by N. Jarvis et al." <i>Vadose Zone Journal</i> , 2017 , 16, vzt2017.01.0034r	2.7	8
14	Impacts of off-road traffic on soil physical properties of forest clear-cuts: X-ray and laboratory analysis. <i>Scandinavian Journal of Forest Research</i> , 2018 , 33, 166-177	1.7	8
13	Percolation theory applied to soil tomography. <i>Geoderma</i> , 2020 , 357, 113959	6.7	5

12	Quantitative imaging of the 3-D distribution of cation adsorption sites in undisturbed soil. <i>Soil</i> , 2017 , 3, 177-189	5.8	4
11	Relations between soil organic carbon content and the pore size distribution for an arable topsoil with large variations in soil properties. <i>European Journal of Soil Science</i> , 2022 , 73,	3.4	4
10	Soil structure recovery following compaction: Short-term evolution of soil physical properties in a loamy soil. <i>Soil Science Society of America Journal</i> , 2021 , 85, 1002-1020	2.5	4
9	Quantifying Physical Properties of Three Sphagnum-Based Growing Media as Affected by Drying/Wetting Cycles. <i>Vadose Zone Journal</i> , 2019 , 18, 190033	2.7	4
8	Nanoplastic Transport in Soil via Bioturbation by. <i>Environmental Science & Technology</i> , 2021 ,	10.3	3
7	Approaches to delineate aggregates in intact soil using X-ray imaging. <i>Geoderma</i> , 2021 , 402, 115360	6.7	3
6	Controls of macropore network characteristics on preferential solute transport		2
5	Potential of combined neutron and X-ray imaging to quantify local carbon contents in soil. <i>European Journal of Soil Science</i> ,	3.4	2
4	Oxalate-extractable aluminum alongside carbon inputs may be a major determinant for organic carbon content in agricultural topsoils in humid continental climate. <i>Geoderma</i> , 2021 , 402, 115345	6.7	2
3	Reply to: "Variables in the effect of land use on soil extrapore enzymatic activity and carbon stabilization" by Glenn (2020). <i>Nature Communications</i> , 2020 , 11, 6427	17.4	1
2	Changes in pore networks and readily dispersible soil following structure liming of clay soils. <i>Geoderma</i> , 2021 , 390, 114948	6.7	1
1	Extreme gas production in anthropogenic fibrous sediments: An overlooked biogenic source of greenhouse gas emissions. <i>Science of the Total Environment</i> , 2021 , 781, 146772	10.2	0