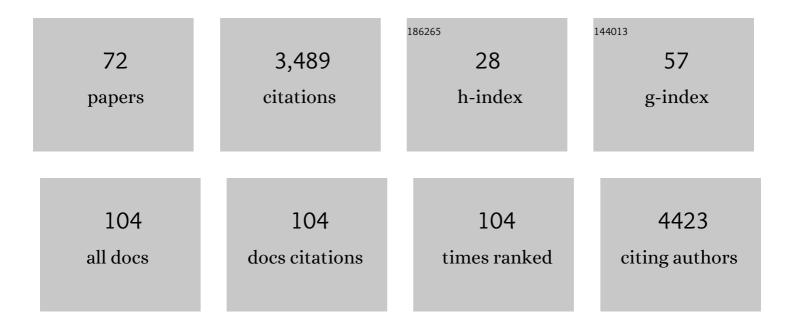
## Teamrat A Ghezzehei

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2532277/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Intercropping with <i>Guiera senegalensis</i> in a semiâ€arid area to mitigate earlyâ€season abiotic stress in <i>A. hypogea</i> and <i>P. glaucum</i> . Journal of Agronomy and Crop Science, 2022, 208, 158-167.	3.5	1
2	Synergy between compost and cover crops in a Mediterranean row crop system leads to increased subsoil carbon storage. Soil, 2022, 8, 59-83.	4.9	4
3	Confronting the water potential information gap. Nature Geoscience, 2022, 15, 158-164.	12.9	47
4	Long-term impact of cover crop and reduced disturbance tillage on soil pore size distribution and soil water storage. Soil, 2022, 8, 177-198.	4.9	7
5	Physicsâ€Informed Neural Networks With Monotonicity Constraints for Richardsonâ€Richards Equation: Estimation of Constitutive Relationships and Soil Water Flux Density From Volumetric Water Content Measurements. Water Resources Research, 2021, 57, e2020WR027642.	4.2	29
6	Advances in soil moisture retrieval from multispectral remote sensing using unoccupied aircraft systems and machine learning techniques. Hydrology and Earth System Sciences, 2021, 25, 2739-2758.	4.9	18
7	An overlooked local resource: Shrub-intercropping for food production, drought resistance and ecosystem restoration in the Sahel. Agriculture, Ecosystems and Environment, 2021, 319, 107523.	5.3	4
8	Quantifying the Effect of Subcritical Water Repellency on Sorptivity: A Physically Based Model. Water Resources Research, 2020, 56, e2020WR027942.	4.2	13
9	Using Wastewater in Irrigation: The Effects on Infiltration Process in a Clayey Soil. Water (Switzerland), 2020, 12, 968.	2.7	8
10	Effect of Cover Crop on Carbon Distribution in Size and Density Separated Soil Aggregates. Soil Systems, 2020, 4, 6.	2.6	8
11	Soil structureÂis an important omission in Earth System Models. Nature Communications, 2020, 11, 522.	12.8	138
12	Root uptake under mismatched distributions of water and nutrients in the root zone. Biogeosciences, 2020, 17, 6377-6392.	3.3	10
13	Using Machine Learning for Prediction of Saturated Hydraulic Conductivity and Its Sensitivity to Soil Structural Perturbations. Water Resources Research, 2019, 55, 5715-5737.	4.2	103
14	The role of the physical properties of soil in determining biogeochemical responses to soil warming. , 2019, , 209-244.		7
15	On the role of soil water retention characteristic on aerobic microbial respiration. Biogeosciences, 2019, 16, 1187-1209.	3.3	44
16	Intercropping with two native woody shrubs improves water status and development of interplanted groundnut and pearl millet in the Sahel. Plant and Soil, 2019, 435, 143-159.	3.7	10
17	Hydraulic Redistribution by Native Sahelian Shrubs: Bioirrigation to Resist In-Season Drought. Frontiers in Environmental Science, 2018, 6, .	3.3	33
18	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. Earth System Dynamics, 2018, 9, 593-609.	7.1	28

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19	Water Distribution in an Arid Zone Soil: Numerical Analysis of Data from a Large Weighing Lysimeter. Vadose Zone Journal, 2018, 17, 1-17.	2.2	24
20	Vulnerability of Physically Protected Soil Organic Carbon to Loss Under Low Severity Fires. Frontiers in Environmental Science, 2018, 6, .	3.3	15
21	Soil Structural Degradation During Lowâ€Severity Burns. Geophysical Research Letters, 2018, 45, 5553-5561.	4.0	18
22	Alteration of soil physical properties and processes after ten years of intercropping with native shrubs in the Sahel. Soil and Tillage Research, 2018, 182, 153-163.	5.6	11
23	Development and analysis of the Soil Water Infiltration Global database. Earth System Science Data, 2018, 10, 1237-1263.	9.9	85
24	Upward infiltration–evaporation method to estimate soil hydraulic properties. Hydrological Sciences Journal, 2017, 62, 1683-1693.	2.6	11
25	Using National Ambient Air Quality Standards for fine particulate matter to assess regional wildland fire smoke and air quality management. Journal of Environmental Management, 2017, 201, 345-356.	7.8	27
26	A modified multiple tension upward infiltration method to estimate the soil hydraulic properties. Hydrological Processes, 2016, 30, 2991-3003.	2.6	12
27	Alteration of physical and chemical characteristics of clayey soils by irrigation with treated waste water. Geoderma, 2016, 276, 33-40.	5.1	40
28	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. Vadose Zone Journal, 2016, 15, 1-57.	2.2	445
29	Water for Carbon, Carbon for Water. Vadose Zone Journal, 2016, 15, 1-10.	2.2	33
30	A method for characterizing desiccation-induced consolidation and permeability loss of organic soils. Water Resources Research, 2015, 51, 775-786.	4.2	2
31	Synchrotron X-Ray Microtomography-New Means to Quantify Root Induced Changes of Rhizosphere Physical Properties. SSSA Special Publication Series, 2015, , 39-67.	0.2	6
32	Spatial distribution of rhizodeposits provides built-in water potential gradient in the rhizosphere. Ecological Modelling, 2015, 298, 53-63.	2.5	38
33	Decomposition of distinct organic matter pools is regulated by moisture status in structured wetland soils. Soil Biology and Biochemistry, 2015, 81, 28-37.	8.8	25
34	Influence of Calcium Carbonate and Charcoal Applications on Organic Matter Storage in Silt‧ized Aggregates Formed during a Microcosm Experiment. Soil Science Society of America Journal, 2014, 78, 1624-1631.	2.2	29
35	Biochar can be used to capture essential nutrients from dairy wastewater and improve soil physico-chemical properties. Solid Earth, 2014, 5, 953-962.	2.8	84
36	Interplay between soil drying and root exudation in rhizosheath development. Plant and Soil, 2014, 374, 739-751.	3.7	85

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37	Quantifying coupled deformation and water flow in the rhizosphere using X-ray microtomography and numerical simulations. Plant and Soil, 2014, 376, 95-110.	3.7	57
38	Early Spring, Severe Frost Events, and Drought Induce Rapid Carbon Loss in High Elevation Meadows. PLoS ONE, 2014, 9, e106058.	2.5	19
39	Degradation of moist soil aggregates by rapid temperature rise under low intensity fire. Plant and Soil, 2013, 362, 335-344.	3.7	42
40	A new method for rapid determination of carbohydrate and total carbon concentrations using UV spectrophotometry. Carbohydrate Polymers, 2013, 97, 253-261.	10.2	482
41	Effectiveness of Biochar for Sorption of Ammonium and Phosphate from Dairy Effluent. Journal of Environmental Quality, 2013, 42, 1545-1554.	2.0	156
42	EXPLAINING LONGITUDINAL HYDRODYNAMIC DISPERSION USING VARIANCE OF PORE SIZE DISTRIBUTION. Journal of Porous Media, 2013, 16, 11-19.	1.9	6
43	Linking sub-pore scale heterogeneity of biological and geochemical deposits with changes in permeability. Advances in Water Resources, 2012, 39, 1-6.	3.8	16
44	Impact of Biochar Enriched with Dairy Manure Effluent on Carbon and Nitrogen Dynamics. Journal of Environmental Quality, 2012, 41, 1107-1114.	2.0	99
45	Heterogeneous seepage at the Nopal I natural analogue site, Chihuahua, Mexico. Hydrogeology Journal, 2012, 20, 155-166.	2.1	13
46	Effects of Root-Induced Compaction on Rhizosphere Hydraulic Properties - X-ray Microtomography Imaging and Numerical Simulations. Environmental Science & Technology, 2011, 45, 425-431.	10.0	101
47	Physicochemical controls on initiation and evolution of desiccation cracks in sand–bentonite mixtures: X-ray CT imaging and stochastic modeling. Journal of Contaminant Hydrology, 2011, 126, 100-112.	3.3	28
48	An Index for Degree of Hysteresis in Water Retention. Soil Science Society of America Journal, 2011, 75, 2122-2127.	2.2	12
49	Infiltration into fractured bedrock. Water Resources Research, 2008, 44, .	4.2	12
50	Evolution of unsaturated hydraulic conductivity of aggregated soils due to compressive forces. Water Resources Research, 2008, 44, .	4.2	27
51	Errors in determination of soil water content using time domain reflectometry caused by soil compaction around waveguides. Water Resources Research, 2008, 44, .	4.2	17
52	Stratigraphy of the PB-1 Well, Nopal I Uranium Deposit, Sierra Peña Blanca, Chihuahua, Mexico. International Geology Review, 2008, 50, 959-974.	2.1	9
53	The drift shadow phenomenon in an unsaturated fractured environment. , 2008, , 761-764.		0
54	Correspondence of the Gardner and van Genuchten–Mualem relative permeability function parameters. Water Resources Research, 2007, 43, .	4.2	50

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55	On the transport of emulsions in porous media. Journal of Colloid and Interface Science, 2007, 313, 1-4.	9.4	33
56	Traveling liquid bridges in unsaturated fractured porous media. Transport in Porous Media, 2007, 68, 129-151.	2.6	28
57	Comment on "Computer simulation of two-phase immiscible fluid motion in unsaturated complex fractures using a volume of fluid method―by Hai Huang, Paul Meakin, and Moubin Liu. Water Resources Research, 2006, 42, .	4.2	4
58	Liquid fragmentation and intermittent flow regimes in unsaturated fractured media. Water Resources Research, 2005, 41, .	4.2	34
59	Flow diversion around cavities in fractured media. Water Resources Research, 2005, 41, .	4.2	2
60	Modeling Coupled Evaporation and Seepage in Ventilated Cavities. Vadose Zone Journal, 2004, 3, 806-818.	2.2	35
61	Constraints for flow regimes on smooth fracture surfaces. Water Resources Research, 2004, 40, .	4.2	28
62	Modeling Coupled Evaporation and Seepage in Ventilated Cavities. Vadose Zone Journal, 2004, 3, 806-818.	2.2	10
63	Stress-induced volume reduction of isolated pores in wet soil. Water Resources Research, 2003, 39, .	4.2	10
64	Poreâ€Space Dynamics in a Soil Aggregate Bed under a Static External Load. Soil Science Society of America Journal, 2003, 67, 12-19.	2.2	20
65	Pore-Space Dynamics in a Soil Aggregate Bed under a Static External Load. Soil Science Society of America Journal, 2003, 67, 12.	2.2	8
66	Analytical Models for Soil Pore‧ize Distribution After Tillage. Soil Science Society of America Journal, 2002, 66, 1104-1114.	2.2	47
67	Modeling post-tillage soil structural dynamics: a review. Soil and Tillage Research, 2002, 64, 41-59.	5.6	129
68	Modeling the dynamics of the soil pore-size distribution. Soil and Tillage Research, 2002, 64, 61-78.	5.6	108
69	Rheological Properties of Wet Soils and Clays under Steady and Oscillatory Stresses. Soil Science Society of America Journal, 2001, 65, 624-637.	2.2	128
70	Dynamics of soil aggregate coalescence governed by capillary and rheological processes. Water Resources Research, 2000, 36, 367-379.	4.2	83
71	Stochastic model for posttillage soil pore space evolution. Water Resources Research, 2000, 36, 1641-1652.	4.2	96
72	Dripping into subterranean cavities from unsaturated fractures under evaporative conditions. Water Resources Research, 2000, 36, 381-393.	4.2	24