

Lars J Munkholm

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4553237/lars-j-munkholm-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

123
papers

3,222
citations

34
h-index

52
g-index

131
ext. papers

3,743
ext. citations

5
avg, IF

5.7
L-index

#	Paper	IF	Citations
123	Long-term rotation and tillage effects on soil structure and crop yield. <i>Soil and Tillage Research</i> , 2013 , 127, 85-91	6.5	156
122	Field assessment of soil structural quality & development of the Peerlkamp test. <i>Soil Use and Management</i> , 2007 , 23, 329-337	3.1	151
121	Soil quality aspects of humid sandy loams as influenced by organic and conventional long-term management. <i>Agriculture, Ecosystems and Environment</i> , 2002 , 88, 195-214	5.7	134
120	Nitrous oxide emissions and controls as influenced by tillage and crop residue management strategy. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 1701-1711	7.5	100
119	The effect of straw and wood gasification biochar on carbon sequestration, selected soil fertility indicators and functional groups in soil: An incubation study. <i>Geoderma</i> , 2016 , 269, 99-107	6.7	93
118	A discrete element model for soil-sweep interaction in three different soils. <i>Soil and Tillage Research</i> , 2013 , 126, 34-41	6.5	90
117	Soil pore characteristics assessed from X-ray micro-CT derived images and correlations to soil friability. <i>Geoderma</i> , 2012 , 181-182, 22-29	6.7	87
116	Modelling soil pore characteristics from measurements of air exchange: the long-term effects of fertilization and crop rotation. <i>European Journal of Soil Science</i> , 2002 , 53, 331-339	3.4	86
115	Tillage effects on N ₂ O emissions as influenced by a winter cover crop. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 1509-1517	7.5	85
114	Evaluation of soil structure in the framework of an overall soil quality rating. <i>Soil and Tillage Research</i> , 2013 , 127, 74-84	6.5	72
113	Tillage System and Cover Crop Effects on Soil Quality: I. Chemical, Mechanical, and Biological Properties. <i>Soil Science Society of America Journal</i> , 2014 , 78, 262-270	2.5	67
112	Clay Dispersibility and Soil Friability—Testing the Soil Clay-to-Carbon Saturation Concept. <i>Vadose Zone Journal</i> , 2012 , 11,	2.7	62
111	The effects of organic matter application and intensive tillage and traffic on soil structure formation and stability. <i>Soil and Tillage Research</i> , 2014 , 136, 28-37	6.5	61
110	Tillage effects on topsoil structural quality assessed using X-ray CT, soil cores and visual soil evaluation. <i>Soil and Tillage Research</i> , 2013 , 128, 104-109	6.5	60
109	The effect of tillage intensity on soil structure and winter wheat root/shoot growth. <i>Soil Use and Management</i> , 2008 , 24, 392-400	3.1	60
108	Organic matter and soil tilth in arable farming: Management makes a difference within 58 years. <i>Agriculture, Ecosystems and Environment</i> , 2007 , 122, 157-172	5.7	60
107	Spatial and temporal effects of direct drilling on soil structure in the seedling environment. <i>Soil and Tillage Research</i> , 2003 , 71, 163-173	6.5	59

106	Can non-inversion tillage and straw retainment reduce N leaching in cereal-based crop rotations?. <i>Soil and Tillage Research</i> , 2010 , 109, 1-8	6.5	58
105	The use of PET/CT scanning technique for 3D visualization and quantification of real-time soil/plant interactions. <i>Plant and Soil</i> , 2012 , 352, 113-127	4.2	57
104	Aggregate strength and mechanical behaviour of a sandy loam soil under long-term fertilization treatments. <i>European Journal of Soil Science</i> , 2002 , 53, 129-137	3.4	54
103	Relating soil C and organic matter fractions to soil structural stability. <i>Geoderma</i> , 2019 , 337, 834-843	6.7	52
102	Tensile strength of soil cores in relation to aggregate strength, soil fragmentation and pore characteristics. <i>Soil and Tillage Research</i> , 2002 , 64, 125-135	6.5	49
101	Soil precompression stress, penetration resistance and crop yields in relation to differently-trafficked, temperate-region sandy loam soils. <i>Soil and Tillage Research</i> , 2016 , 163, 298-308	6.5	48
100	The Role of Soil Organic Matter for Maintaining Crop Yields: Evidence for a Renewed Conceptual Basis. <i>Advances in Agronomy</i> , 2018 , 150, 35-79	7.7	48
99	Soil management effects on aggregate stability and biological binding. <i>Geoderma</i> , 2008 , 144, 455-467	6.7	46
98	Temporal dynamics for soil aggregates determined using X-ray CT scanning. <i>Geoderma</i> , 2013 , 204-205, 15-22	6.7	45
97	Soil friability: A review of the concept, assessment and effects of soil properties and management. <i>Geoderma</i> , 2011 , 167-168, 236-246	6.7	45
96	Tillage System and Cover Crop Effects on Soil Quality: II. Pore Characteristics. <i>Soil Science Society of America Journal</i> , 2014 , 78, 271-279	2.5	44
95	Effect of Water Regime on Aggregate-tensile Strength, Rupture Energy, and Friability. <i>Soil Science Society of America Journal</i> , 2002 , 66, 702-709	2.5	44
94	Relationship between soil aggregate strength, shape and porosity for soils under different long-term management. <i>Geoderma</i> , 2016 , 268, 52-59	6.7	42
93	Nitrate leaching, yields and carbon sequestration after noninversion tillage, catch crops, and straw retention. <i>Journal of Environmental Quality</i> , 2015 , 44, 868-81	3.4	41
92	Wheel load, repeated wheeling, and traction effects on subsoil compaction in northern Europe. <i>Soil and Tillage Research</i> , 2019 , 186, 300-309	6.5	41
91	Root growth conditions in the topsoil as affected by tillage intensity. <i>Geoderma</i> , 2011 , 166, 66-73	6.7	38
90	Non-inversion tillage effects on soil mechanical properties of a humid sandy loam. <i>Soil and Tillage Research</i> , 2001 , 62, 1-14	6.5	38
89	Optimised schedules for sequential agricultural operations using a Tabu Search method. <i>Computers and Electronics in Agriculture</i> , 2015 , 117, 102-113	6.5	34

88	Overall assessment of soil quality on humid sandy loams: Effects of location, rotation and tillage. <i>Soil and Tillage Research</i> , 2015 , 145, 29-36	6.5	34
87	The numeric visual evaluation of subsoil structure (SubVESS) under agricultural production. <i>Soil and Tillage Research</i> , 2015 , 148, 85-96	6.5	33
86	Soil organic matter widens the range of water contents for tillage. <i>Soil and Tillage Research</i> , 2018 , 182, 57-65	6.5	33
85	Opportunities and future directions for visual soil evaluation methods in soil structure research. <i>Soil and Tillage Research</i> , 2017 , 173, 104-113	6.5	31
84	Soil texture analysis revisited: Removal of organic matter matters more than ever. <i>PLoS ONE</i> , 2017 , 12, e0178039	3.7	31
83	Structural vulnerability of a sandy loam exposed to intensive tillage and traffic in wet conditions. <i>Soil and Tillage Research</i> , 2004 , 79, 79-85	6.5	31
82	Catch crop biomass production, nitrogen uptake and root development under different tillage systems. <i>Soil Use and Management</i> , 2012 , 28, 517-529	3.1	29
81	Soil degradation and recovery - Changes in organic matter fractions and structural stability. <i>Geoderma</i> , 2020 , 364, 114181	6.7	27
80	Effect of Water Regime on Aggregate-tensile Strength, Rupture Energy, and Friability 2002 , 66, 702		27
79	Subsoil loosening in a crop rotation for organic farming eliminated plough pan with mixed effects on crop yield. <i>Soil and Tillage Research</i> , 2007 , 94, 376-385	6.5	25
78	Predicting soil workability and fragmentation in tillage: a review. <i>Soil Use and Management</i> , 2017 , 33, 288-298	3.1	24
77	The influence of clay-to-carbon ratio on soil physical properties in a humid sandy loam soil with contrasting tillage and residue management. <i>Geoderma</i> , 2016 , 264, 94-102	6.7	24
76	Short-term effects of loosening and incorporation of straw slurry into the upper subsoil on soil physical properties and crop yield. <i>Soil and Tillage Research</i> , 2018 , 184, 62-67	6.5	22
75	Modelling the readiness of soil for different methods of tillage. <i>Soil and Tillage Research</i> , 2016 , 155, 339-350	6.5	21
74	Modelling approach for soil displacement in tillage using discrete element method. <i>Soil and Tillage Research</i> , 2018 , 183, 60-71	6.5	21
73	Seed drill depth control system for precision seeding. <i>Computers and Electronics in Agriculture</i> , 2018 , 144, 174-180	6.5	20
72	Subsoil compaction assessed by visual evaluation and laboratory methods. <i>Soil and Tillage Research</i> , 2017 , 173, 4-14	6.5	17
71	Impact of potential bio-subsoilers on pore network of a severely compacted subsoil. <i>Geoderma</i> , 2020 , 363, 114154	6.7	17

70	Root development of fodder radish and winter wheat before winter in relation to uptake of nitrogen. <i>European Journal of Agronomy</i> , 2015 , 71, 1-9	5	16
69	Incorporation of Water Content in the Weibull Model for Soil Aggregate Strength. <i>Soil Science Society of America Journal</i> , 2007 , 71, 682-691	2.5	16
68	Soil mechanical behaviour of sandy loams in a temperate climate: case studies on long-term effects of fertilization and crop rotation. <i>Soil Use and Management</i> , 2001 , 17, 269-277	3.1	16
67	The contribution of tyre evolution to the reduction of soil compaction risks. <i>Soil and Tillage Research</i> , 2019 , 194, 104283	6.5	15
66	Design of a slurry injector for use in a growing cereal crop. <i>Soil and Tillage Research</i> , 2010 , 107, 26-35	6.5	15
65	N-utilization in non-inversion tillage systems. <i>Soil and Tillage Research</i> , 2011 , 113, 55-60	6.5	14
64	Pore characteristics and hydraulic properties of a sandy loam supplied for a century with either animal manure or mineral fertilizers. <i>Soil Use and Management</i> , 2005 , 21, 265-275	3.1	14
63	Eleven Years' Effect of Conservation Practices for Temperate Sandy Loams: II. Soil Pore Characteristics. <i>Soil Science Society of America Journal</i> , 2017 , 81, 392-403	2.5	13
62	Suboptimal fertilisation compromises soil physical properties of a hard-setting sandy loam. <i>Soil Research</i> , 2017 , 55, 332	1.8	13
61	Nitrogen uptake, nitrate leaching and root development in winter-grown wheat and fodder radish. <i>Soil Use and Management</i> , 2017 , 33, 233-242	3.1	13
60	Belowground carbon input and translocation potential of fodder radish cover-crop. <i>Plant and Soil</i> , 2011 , 344, 159-175	4.2	13
59	Brittle Fracture of Soil Aggregates. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1565-1571	2.5	13
58	Soil Water Retention: Uni-Modal Models of Pore-Size Distribution Neglect Impacts of Soil Management. <i>Soil Science Society of America Journal</i> , 2019 , 83, 18-26	2.5	12
57	Converting loss-on-ignition to organic carbon content in arable topsoil: pitfalls and proposed procedure. <i>European Journal of Soil Science</i> , 2018 , 69, 604-612	3.4	11
56	Short-term changes in soil pore size distribution: Impact of land use. <i>Soil and Tillage Research</i> , 2020 , 199, 104597	6.5	10
55	Carbon turnover and sequestration potential of fodder radish cover crop. <i>Soil Use and Management</i> , 2013 , 29, 191-198	3.1	10
54	Mitigation of subsoil recompaction by light traffic and on-land ploughing. <i>Soil and Tillage Research</i> , 2005 , 80, 149-158	6.5	10
53	Seed drill instrumentation for spatial coulter depth measurements. <i>Computers and Electronics in Agriculture</i> , 2017 , 141, 207-214	6.5	10

52	Management-induced soil structure degradation - organic matter depletion and tillage. 2004 , 185-197		9
51	Construction of modern wide, low-inflation pressure tyres per se does not affect soil stress. <i>Soil and Tillage Research</i> , 2020 , 204, 104708	6.5	9
50	Eleven Years' Effect of Conservation Practices for Temperate Sandy Loams: I. Soil Physical Properties and Topsoil Carbon Content. <i>Soil Science Society of America Journal</i> , 2017 , 81, 380-391	2.5	8
49	Assessing the effect of the seedbed cultivator leveling tines on soil surface properties using laser range scanners. <i>Soil and Tillage Research</i> , 2017 , 167, 54-60	6.5	8
48	Characterization of soil aggregate structure by virtual erosion of X-ray CT imagery. <i>Soil and Tillage Research</i> , 2019 , 185, 70-76	6.5	8
47	Pore structure characteristics and soil workability along a clay gradient. <i>Geoderma</i> , 2019 , 337, 1186-1195	6.7	8
46	Subsoil compaction effect on spatio-temporal root growth, reuse of biopores and crop yield of spring barley. <i>European Journal of Agronomy</i> , 2021 , 123, 126225	5	8
45	Long-term effect of tillage and straw retention in conservation agriculture systems on soil carbon storage. <i>Soil Science Society of America Journal</i> , 2021 , 85, 1465-1478	2.5	8
44	Ratio of Non-Darcian to Darcian Air Permeability as a Marker of Soil Pore Organization. <i>Soil Science Society of America Journal</i> , 2019 , 83, 1024-1031	2.5	7
43	Residual effects of compaction on the subsoil pore system – a functional perspective. <i>Soil Science Society of America Journal</i> , 2020 , 84, 717-730	2.5	7
42	Limiting Water Range: A Case Study for Compacted Subsoils. <i>Soil Science Society of America Journal</i> , 2019 , 83, 982-992	2.5	7
41	Compaction and sowing date change soil physical properties and crop yield in a loamy temperate soil. <i>Soil and Tillage Research</i> , 2018 , 184, 153-163	6.5	6
40	Mitigation of subsoil recompaction by light traffic and on-land ploughing: II. Root and yield response. <i>Soil and Tillage Research</i> , 2005 , 80, 159-170	6.5	6
39	Traction and repeated wheeling – effects on contact area characteristics and stresses in the upper subsoil. <i>Soil and Tillage Research</i> , 2021 , 211, 105020	6.5	6
38	Soil water contents for tillage: A comparison of approaches and consequences for the number of workable days. <i>Soil and Tillage Research</i> , 2019 , 195, 104384	6.5	5
37	Soil compaction limits root development, radiation-use efficiency and yield of three winter wheat (<i>Triticum aestivum</i> L.) cultivars. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2013 , 63, 409-419	1.1	5
36	Reduction of yield gaps and improvement of ecological function through local-to-global applications of visual soil assessment. 2015 , 31-48		5
35	Effects of bio-subsoilers on subsoil pore-system functionality: Case study with intact soil columns. <i>Geoderma</i> , 2021 , 385, 114897	6.7	5

34	Impact of tillage intensity on clay loam soil structure. <i>Soil Use and Management</i> , 2019 , 35, 388-399	3.1	5
33	Soil structure response to field traffic: Effects of traction and repeated wheeling. <i>Soil and Tillage Research</i> , 2021 , 213, 105128	6.5	5
32	Soil pore characteristics and gas transport properties of a no-tillage system in a subtropical climate. <i>Geoderma</i> , 2021 , 401, 115222	6.7	5
31	MAGGnet: An international network to foster mitigation of agricultural greenhouse gases. <i>Carbon Management</i> , 2016 , 7, 243-248	3.3	4
30	Assessing the actions of the farm managers to execute field operations at opportune times. <i>Biosystems Engineering</i> , 2016 , 144, 38-51	4.8	3
29	Trace elements in some Northern Nigerian soils. <i>Communications in Soil Science and Plant Analysis</i> , 1993 , 24, 657-672	1.5	3
28	Assessing structural quality for crop performance and for agronomy (VESS, VSA, SOILpak, Profil cultural, SubVESS). 2015 , 15-30		3
27	Infield optimized route planning in harvesting operations for risk of soil compaction reduction. <i>Soil Use and Management</i> , 2020 , 37, 810	3.1	3
26	Fourier and Granulometry Methods on 3D Images of Soil Surfaces for Evaluating Soil Aggregate Size Distribution. <i>Applied Engineering in Agriculture</i> , 2016 , 32, 609-615	0.8	3
25	Seasonal differences in tillage draught on a sandy loam soil with long-term additions of animal manure and mineral fertilizers. <i>Soil Use and Management</i> , 2016 , 32, 583-593	3.1	3
24	Integration of farmers' knowledge and science-based assessment of soil quality for peri-urban vegetable production in Ghana. <i>Renewable Agriculture and Food Systems</i> , 2020 , 35, 128-139	1.8	3
23	Impact of compaction and post-compaction vegetation management on aggregate properties, Weibull modulus, and interactions with intra-aggregate pore structure. <i>Geoderma</i> , 2020 , 374, 114430	6.7	2
22	Wheel track loosening can reduce the risk of pesticide leaching to surface waters. <i>Soil Use and Management</i> , 2021 , 37, 906-920	3.1	2
21	Soil Surface Roughness Using Cumulated Gaussian Curvature. <i>Lecture Notes in Computer Science</i> , 2015 , 533-541	0.9	2
20	Visual evaluation of grassland and arable management impacts on soil quality. 2015 , 49-65		2
19	Cereal straw incorporation and ryegrass cover crops: The path to equilibrium in soil carbon storage is short. <i>European Journal of Soil Science</i> ,	3.4	2
18	Evaluation Of Onion Production On Sandy Soils By Use Of Reduced Tillage And Controlled Traffic Farming With Wide Span Tractors. <i>Acta Technologica Agriculturae</i> , 2015 , 18, 74-82	1	1
17	Characterisation of soil pore structure anisotropy caused by the growth of bio-subsoilers. <i>Geoderma</i> , 2022 , 409, 115571	6.7	1

16	Choosing and evaluating soil improvements by subsoiling and compaction control. 2015 , 66-85		1
15	The expanding discipline and role of visual soil evaluation. 2015 , 142-153		1
14	Soil structure under adverse weather/climate conditions. 2015 , 122-141		1
13	Limiting water range: Crop responses related to in-season soil water dynamics, weather conditions, and subsoil compaction. <i>Soil Science Society of America Journal</i> , 2021 , 85, 85-101	2.5	1
12	Anisotropy of subsoil pore characteristics and hydraulic conductivity as affected by compaction and cover crop treatments. <i>Soil Science Society of America Journal</i> , 2021 , 85, 28-39	2.5	1
11	Root-dependent recovery of pore system functionality of compacted subsoil: A field case study with bio-subsoilers in Denmark. <i>Soil Science Society of America Journal</i> , 2021 , 85, 1566-1577	2.5	1
10	Liming with CaCO ₃ or CaO affects aggregate stability and dissolved reactive phosphorus in a heavy clay subsoil. <i>Soil and Tillage Research</i> , 2021 , 214, 105162	6.5	1
9	Influence of environmental factors on soil organic carbon in different soil layers for Chinese Mollisols under intensive maize cropping.. <i>Science of the Total Environment</i> , 2022 , 155443	10.2	1
8	Soil compaction raises nitrous oxide emissions in managed agroecosystems. A review. <i>Agronomy for Sustainable Development</i> , 2022 , 42,	6.8	1
7	Improved soil structural stability under no-tillage is related to increased soil carbon in rice paddies: Evidence from literature review and field experiment. <i>Environmental Technology and Innovation</i> , 2022 , 26, 102248	7	0
6	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	6.5	0
5	Modeling soil aggregate fracture using the discrete element method. <i>Soil and Tillage Research</i> , 2022 , 218, 105295	6.5	0
4	Soil structural stability following decades of straw incorporation and use of ryegrass cover crops. <i>Geoderma</i> , 2022 , 406, 115463	6.7	0
3	Soil characteristics and root growth in a catena across and outside the wheel tracks for different slurry application systems. <i>Soil and Tillage Research</i> , 2022 , 221, 105422	6.5	0
2	Evaluating land quality for carbon storage, greenhouse gas emissions and nutrient leaching. 2015 , 103-121		
1	Optimized soil inversion in the headlands with a novel section-controlled mouldboard ploughing system. <i>Soil Use and Management</i> , 2020 , 36, 470-481	3.1	