

Lars J Munkholm

List of Publications by Year in Descending Order

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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.

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	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
122	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
121	Characterisation of soil pore structure anisotropy caused by the growth of bio-subsoilers. <i>Geoderma</i> , 2022 , 409, 115571	6.7	1
120	Modeling soil aggregate fracture using the discrete element method. <i>Soil and Tillage Research</i> , 2022 , 218, 105295	6.5	0
119	Soil structural stability following decades of straw incorporation and use of ryegrass cover crops. <i>Geoderma</i> , 2022 , 406, 115463	6.7	0
118	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
117	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
116	Soil compaction raises nitrous oxide emissions in managed agroecosystems. A review. <i>Agronomy for Sustainable Development</i> , 2022 , 42,	6.8	1
115	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
114	Effects of bio-subsoilers on subsoil pore-system functionality: Case study with intact soil columns. <i>Geoderma</i> , 2021 , 385, 114897	6.7	5
113	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
112	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
111	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
110	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
109	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
108	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
107	Soil structure response to field traffic: Effects of traction and repeated wheeling. <i>Soil and Tillage Research</i> , 2021 , 213, 105128	6.5	5

106	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
105	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
104	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
103	Residual effects of compaction on the subsoil pore system— functional perspective. <i>Soil Science Society of America Journal</i> , 2020 , 84, 717-730	2.5	7
102	Short-term changes in soil pore size distribution: Impact of land use. <i>Soil and Tillage Research</i> , 2020 , 199, 104597	6.5	10
101	Soil degradation and recovery - Changes in organic matter fractions and structural stability. <i>Geoderma</i> , 2020 , 364, 114181	6.7	27
100	Impact of potential bio-subsoilers on pore network of a severely compacted subsoil. <i>Geoderma</i> , 2020 , 363, 114154	6.7	17
99	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	
98	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
97	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
96	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
95	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
94	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
93	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
92	The contribution of tyre evolution to the reduction of soil compaction risks. <i>Soil and Tillage Research</i> , 2019 , 194, 104283	6.5	15
91	Limiting Water Range: A Case Study for Compacted Subsoils. <i>Soil Science Society of America Journal</i> , 2019 , 83, 982-992	2.5	7
90	Impact of tillage intensity on clay loam soil structure. <i>Soil Use and Management</i> , 2019 , 35, 388-399	3.1	5
89	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

88	Pore structure characteristics and soil workability along a clay gradient. <i>Geoderma</i> , 2019 , 337, 1186-1195.	6.7	8
87	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
86	Relating soil C and organic matter fractions to soil structural stability. <i>Geoderma</i> , 2019 , 337, 834-843	6.7	52
85	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
84	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
83	Modelling approach for soil displacement in tillage using discrete element method. <i>Soil and Tillage Research</i> , 2018 , 183, 60-71	6.5	21
82	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
81	Seed drill depth control system for precision seeding. <i>Computers and Electronics in Agriculture</i> , 2018 , 144, 174-180	6.5	20
80	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
79	Soil organic matter widens the range of water contents for tillage. <i>Soil and Tillage Research</i> , 2018 , 182, 57-65	6.5	33
78	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
77	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
76	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
75	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
74	Suboptimal fertilisation compromises soil physical properties of a hard-setting sandy loam. <i>Soil Research</i> , 2017 , 55, 332	1.8	13
73	Predicting soil workability and fragmentation in tillage: a review. <i>Soil Use and Management</i> , 2017 , 33, 288-298	3.1	24
72	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
71	Soil texture analysis revisited: Removal of organic matter matters more than ever. <i>PLoS ONE</i> , 2017 , 12, e0178039	3.7	31

70	Subsoil compaction assessed by visual evaluation and laboratory methods. <i>Soil and Tillage Research</i> , 2017 , 173, 4-14	6.5	17
69	Seed drill instrumentation for spatial coulter depth measurements. <i>Computers and Electronics in Agriculture</i> , 2017 , 141, 207-214	6.5	10
68	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
67	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
66	MAGGnet: An international network to foster mitigation of agricultural greenhouse gases. <i>Carbon Management</i> , 2016 , 7, 243-248	3.3	4
65	Modelling the readiness of soil for different methods of tillage. <i>Soil and Tillage Research</i> , 2016 , 155, 339-350	6.5	21
64	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
63	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
62	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
61	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
60	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
59	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
58	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
57	The numeric visual evaluation of subsoil structure (SubVESS) under agricultural production. <i>Soil and Tillage Research</i> , 2015 , 148, 85-96	6.5	33
56	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
55	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
54	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
53	Soil Surface Roughness Using Cumulated Gaussian Curvature. <i>Lecture Notes in Computer Science</i> , 2015 , 533-541	0.9	2

52	Assessing structural quality for crop performance and for agronomy (VESS, VSA, SOILpak, Profil cultural, SubVESS). 2015 , 15-30		3
51	Reduction of yield gaps and improvement of ecological function through local-to-global applications of visual soil assessment. 2015 , 31-48		5
50	Visual evaluation of grassland and arable management impacts on soil quality. 2015 , 49-65		2
49	Choosing and evaluating soil improvements by subsoiling and compaction control. 2015 , 66-85		1
48	The expanding discipline and role of visual soil evaluation. 2015 , 142-153		1
47	Evaluating land quality for carbon storage, greenhouse gas emissions and nutrient leaching. 2015 , 103-121		
46	Soil structure under adverse weather/climate conditions. 2015 , 122-141		1
45	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
44	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
43	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
42	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
41	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
40	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
39	Carbon turnover and sequestration potential of fodder radish cover crop. <i>Soil Use and Management</i> , 2013 , 29, 191-198	3.1	10
38	Temporal dynamics for soil aggregates determined using X-ray CT scanning. <i>Geoderma</i> , 2013 , 204-205, 15-22	6.7	45
37	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
36	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
35	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

34	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
33	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
32	Clay Dispersibility and Soil Friability Testing the Soil Clay-to-Carbon Saturation Concept. <i>Vadose Zone Journal</i> , 2012 , 11,	2.7	62
31	Root growth conditions in the topsoil as affected by tillage intensity. <i>Geoderma</i> , 2011 , 166, 66-73	6.7	38
30	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
29	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
28	Belowground carbon input and translocation potential of fodder radish cover-crop. <i>Plant and Soil</i> , 2011 , 344, 159-175	4.2	13
27	N-utilization in non-inversion tillage systems. <i>Soil and Tillage Research</i> , 2011 , 113, 55-60	6.5	14
26	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
25	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
24	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
23	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
22	Soil management effects on aggregate stability and biological binding. <i>Geoderma</i> , 2008 , 144, 455-467	6.7	46
21	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
20	Field assessment of soil structural quality and development of the Peerlkamp test. <i>Soil Use and Management</i> , 2007 , 23, 329-337	3.1	151
19	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
18	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
17	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

16	Mitigation of subsoil recompaction by light traffic and on-land ploughing. <i>Soil and Tillage Research</i> , 2005 , 80, 149-158	6.5	10
15	Brittle Fracture of Soil Aggregates. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1565-1571	2.5	13
14	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
13	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
12	Management-induced soil structure degradation - organic matter depletion and tillage. 2004 , 185-197		9
11	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
10	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
9	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
8	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
7	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
6	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
5	Effect of Water Regime on Aggregate-tensile Strength, Rupture Energy, and Friability 2002 , 66, 702		27
4	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
3	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
2	Trace elements in some Northern Nigerian soils. <i>Communications in Soil Science and Plant Analysis</i> , 1993 , 24, 657-672	1.5	3
1	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