

Ingrid Kärgel-Knabner

List of Publications by Year in descending order

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Version: 2024-02-01

333
papers

37,040
citations

4146

87
h-index

3650

180
g-index

368
all docs

368
docs citations

368
times ranked

20412
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil organic carbon sequestration in temperate agroforestry systems – A meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2022, 323, 107689.	5.3	50
2	Legacy of plagggen agriculture: High soil organic carbon stocks as result from high carbon input and volume increase. <i>Geoderma</i> , 2022, 406, 115513.	5.1	10
3	Spatial molecular heterogeneity of <sc>POM</sc> during decomposition at different soil depths resolved by <sc>VNIR</sc> hyperspectral imaging. <i>European Journal of Soil Science</i> , 2022, 73, .	3.9	3
4	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 4308-4324.	12.8	52
5	Binding of per- and polyfluoroalkyl substances (PFASs) by organic soil materials with different structural composition – Charge- and concentration-dependent sorption behavior. <i>Chemosphere</i> , 2022, 297, 134167.	8.2	14
6	Earthworms as catalysts in the formation and stabilization of soil microbial necromass. <i>Global Change Biology</i> , 2022, 28, 4775-4782.	9.5	27
7	Explicit spatial modeling at the pore scale unravels the interplay of soil organic carbon storage and structure dynamics. <i>Global Change Biology</i> , 2022, 28, 4589-4604.	9.5	16
8	Soil organic carbon accrual due to more efficient microbial utilization of plant inputs at greater long-term soil moisture. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 327, 170-185.	3.9	12
9	Wet sieving versus dry crushing: Soil microaggregates reveal different physical structure, bacterial diversity and organic matter composition in a clay gradient. <i>European Journal of Soil Science</i> , 2021, 72, 810-828.	3.9	31
10	Soil organic matter in major pedogenic soil groups. <i>Geoderma</i> , 2021, 384, 114785.	5.1	89
11	Microbial Key Players Involved in P Turnover Differ in Artificial Soil Mixtures Depending on Clay Mineral Composition. <i>Microbial Ecology</i> , 2021, 81, 897-907.	2.8	14
12	Biotic and abiotic controls on carbon storage in aggregates in calcareous alpine and prealpine grassland soils. <i>Biology and Fertility of Soils</i> , 2021, 57, 203-218.	4.3	13
13	Initial soil aggregate formation and stabilisation in soils developed from calcareous loess. <i>Geoderma</i> , 2021, 385, 114854.	5.1	32
14	Root-induced fungal growth triggers macroaggregation in forest subsoils. <i>Soil Biology and Biochemistry</i> , 2021, 157, 108244.	8.8	29
15	A small-scale test for rapid assessment of the soil development potential in post-mining soils. <i>Soil and Tillage Research</i> , 2021, 211, 105016.	5.6	5
16	Pruning residues incorporation and reduced tillage improve soil organic matter stabilization and structure of salt-affected soils in a semi-arid Citrus tree orchard. <i>Soil and Tillage Research</i> , 2021, 213, 105129.	5.6	27
17	The role of clay content and mineral surface area for soil organic carbon storage in an arable toposequence. <i>Biogeochemistry</i> , 2021, 156, 401-420.	3.5	50
18	Porosity and organic matter distribution in jarositic phyto tubules of sulfuric soils assessed by combined μ CT and NanoSIMS analysis. <i>Geoderma</i> , 2021, 399, 115124.	5.1	8

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19	Disentangling the effects of OM quality and soil texture on microbially mediated structure formation in artificial model soils. <i>Geoderma</i> , 2021, 403, 115213.	5.1	31
20	A Simple Approach to Isolate Slow and Fast Cycling Organic Carbon Fractions in Central European Soils – Importance of Dispersion Method. <i>Frontiers in Soil Science</i> , 2021, 1, .	2.2	14
21	Subsoil organo-mineral associations under contrasting climate conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 244-263.	3.9	46
22	Rhizosphere Spatiotemporal Organization – A Key to Rhizosphere Functions. <i>Frontiers in Agronomy</i> , 2020, 2, .	3.3	54
23	Persistence of soil organic carbon caused by functional complexity. <i>Nature Geoscience</i> , 2020, 13, 529-534.	12.9	363
24	The concept and future prospects of soil health. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 544-553.	29.7	486
25	Organo-mineral interactions and soil carbon mineralizability with variable saturation cycle frequency. <i>Geoderma</i> , 2020, 375, 114483.	5.1	27
26	Organic carbon fractional distribution and saturation in tropical soils of West African savannas with contrasting mineral composition. <i>Catena</i> , 2020, 190, 104550.	5.0	7
27	Combination of energy limitation and sorption capacity explains 14C depth gradients. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107912.	8.8	16
28	Feasibility of the 4 per 1000 initiative in Bavaria: A reality check of agricultural soil management and carbon sequestration scenarios. <i>Geoderma</i> , 2020, 369, 114333.	5.1	51
29	Combination of Imaging Infrared Spectroscopy and X-ray Computed Microtomography for the Investigation of Bio- and Physicochemical Processes in Structured Soils. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	19
30	Soil organic carbon storage as a key function of soils - A review of drivers and indicators at various scales. <i>Geoderma</i> , 2019, 333, 149-162.	5.1	944
31	Soil microaggregate size composition and organic matter distribution as affected by clay content. <i>Geoderma</i> , 2019, 355, 113901.	5.1	86
32	Influence of drying vs . freezing of archived soil samples on soil organic matter fractions. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 772-781.	1.9	3
33	Organic matter input determines structure development and aggregate formation in artificial soils. <i>Geoderma</i> , 2019, 354, 113881.	5.1	76
34	An indicator for organic matter dynamics in temperate agricultural soils. <i>Agriculture, Ecosystems and Environment</i> , 2019, 274, 62-75.	5.3	35
35	Controlling factors of carbon dynamics in grassland soils of Bavaria between 1989 and 2016. <i>Agriculture, Ecosystems and Environment</i> , 2019, 280, 118-128.	5.3	21
36	Controlling factors of organic carbon stocks in agricultural topsoils and subsoils of Bavaria. <i>Soil and Tillage Research</i> , 2019, 192, 22-32.	5.6	33

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37	Initial soil formation in an agriculturally reclaimed open-cast mining area - the role of management and loess parent material. <i>Soil and Tillage Research</i> , 2019, 191, 224-237.	5.6	32
38	Consumption and alteration of different organic matter sources during remediation of a sandy sulfuric soil. <i>Geoderma</i> , 2019, 347, 220-232.	5.1	14
39	Andosol clay re-aggregation observed at the microscale during physical organic matter fractionation. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 145-148.	1.9	4
40	Organic matter in temperate cultivated floodplain soils: Light fractions highly contribute to subsoil organic carbon. <i>Geoderma</i> , 2019, 337, 679-690.	5.1	18
41	Comparison of soil organic carbon speciation using C NEXAFS and CPMAS ¹³ C NMR spectroscopy. <i>Science of the Total Environment</i> , 2018, 628-629, 906-918.	8.0	34
42	Imaging of Al/Fe ratios in synthetic Al ₂ O ₃ goethite revealed by nanoscale secondary ion mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 619-628.	1.5	4
43	Insights into Carbon Metabolism Provided by Fluorescence <i>In Situ</i> Hybridization-Secondary Ion Mass Spectrometry Imaging of an Autotrophic, Nitrate-Reducing, Fe(II)-Oxidizing Enrichment Culture. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	32
44	Soil organic carbon stocks in topsoil and subsoil controlled by parent material, carbon input in the rhizosphere, and microbial-derived compounds. <i>Soil Biology and Biochemistry</i> , 2018, 122, 19-30.	8.8	202
45	Rebuilding soil carbon in degraded steppe soils of eastern Europe: The importance of windbreaks and improved cropland management. <i>Land Degradation and Development</i> , 2018, 29, 875-883.	3.9	21
46	Effect of in-situ aged and fresh biochar on soil hydraulic conditions and microbial C use under drought conditions. <i>Scientific Reports</i> , 2018, 8, 6852.	3.3	84
47	Drivers of organic carbon allocation in a temperate slope-floodplain catena under agricultural use. <i>Geoderma</i> , 2018, 327, 63-72.	5.1	19
48	Advances in Molecular Approaches for Understanding Soil Organic Matter Composition, Origin, and Turnover: A Historical Overview. <i>Advances in Agronomy</i> , 2018, , 1-48.	5.2	75
49	Phosphorus nutrition of <i>Populus alba</i> reflects adaptation to high P-availability in the soil. <i>Tree Physiology</i> , 2018, 38, 6-24.	3.1	34
50	Stable-isotope Raman microspectroscopy for the analysis of soil organic matter. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 923-931.	3.7	10
51	Large soil organic carbon increase due to improved agronomic management in the North China Plain from 1980s to 2010s. <i>Global Change Biology</i> , 2018, 24, 987-1000.	9.5	84
52	Rapid soil formation after glacial retreat shaped by spatial patterns of organic matter accrual in microaggregates. <i>Global Change Biology</i> , 2018, 24, 1637-1650.	9.5	48
53	Microaggregates in soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 104-136.	1.9	567
54	Root Exudates Induce Soil Macroaggregation Facilitated by Fungi in Subsoil. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	128

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55	Hotspots of soil organic carbon storage revealed by laboratory hyperspectral imaging. <i>Scientific Reports</i> , 2018, 8, 13900.	3.3	51
56	Organische Bodensubstanz. , 2018, , 63-102.		0
57	Decoupling of subsoil carbon and nitrogen dynamics after long-term crop rotation and fertilization. <i>Agriculture, Ecosystems and Environment</i> , 2018, 265, 363-373.	5.3	24
58	Alteration of organic matter during remediation of acid sulfate soils. <i>Geoderma</i> , 2018, 332, 121-134.	5.1	17
59	A systemic approach for modeling soil functions. <i>Soil</i> , 2018, 4, 83-92.	4.9	113
60	Aggregation controls the stability of lignin and lipids in clay-sized particulate and mineral associated organic matter. <i>Biogeochemistry</i> , 2017, 132, 307-324.	3.5	129
61	Paddy management on different soil types does not promote lignin accumulation. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 366-380.	1.9	7
62	Identification of Distinct Functional Microstructural Domains Controlling C Storage in Soil. <i>Environmental Science & Technology</i> , 2017, 51, 12182-12189.	10.0	58
63	Performance of base hydrolysis methods in extracting bound lipids from plant material, soils, and sediments. <i>Organic Geochemistry</i> , 2017, 113, 97-104.	1.8	4
64	9. Artificial Soils as Tools for Microbial Ecology. , 2017, , 159-180.		2
65	Linking organic matter composition in acid sulfate soils to pH recovery after re-submerging. <i>Geoderma</i> , 2017, 308, 350-362.	5.1	16
66	A multi-technique approach to assess the fate of biochar in soil and to quantify its effect on soil organic matter composition. <i>Organic Geochemistry</i> , 2017, 112, 177-186.	1.8	29
67	Anthropogenic N deposition increases soil organic matter accumulation without altering its biochemical composition. <i>Global Change Biology</i> , 2017, 23, 933-944.	9.5	111
68	The macromolecular organic composition of plant and microbial residues as inputs to soil organic matter: Fourteen years on. <i>Soil Biology and Biochemistry</i> , 2017, 105, A3-A8.	8.8	175
69	Interaction of minerals, organic matter, and microorganisms during biogeochemical interface formation as shown by a series of artificial soil experiments. <i>Biology and Fertility of Soils</i> , 2017, 53, 9-22.	4.3	67
70	Legacy of Rice Roots as Encoded in Distinctive Microsites of Oxides, Silicates, and Organic Matter. <i>Soils</i> , 2017, 1, 2.	1.0	12
71	Climate Change Impairs Nitrogen Cycling in European Beech Forests. <i>PLoS ONE</i> , 2016, 11, e0158823.	2.5	42
72	Urban waste composts enhance OC and N stocks after long-term amendment but do not alter organic matter composition. <i>Agriculture, Ecosystems and Environment</i> , 2016, 223, 211-222.	5.3	33

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73	Tracing the sources and spatial distribution of organic carbon in subsoils using a multi-biomarker approach. <i>Scientific Reports</i> , 2016, 6, 29478.	3.3	72
74	Stand scale variability of topsoil organic matter composition in a high-elevation Norway spruce forest ecosystem. <i>Geoderma</i> , 2016, 267, 112-122.	5.1	22
75	The fate of cutin and suberin of decaying leaves, needles and roots – Inferences from the initial decomposition of bound fatty acids. <i>Organic Geochemistry</i> , 2016, 95, 81-92.	1.8	58
76	Carbon and nitrogen mineralization in hierarchically structured aggregates of different size. <i>Soil and Tillage Research</i> , 2016, 160, 23-33.	5.6	80
77	Succession of soil microbial communities and enzyme activities in artificial soils. <i>Pedobiologia</i> , 2016, 59, 93-104.	1.2	21
78	The role of allophane nano-structure and Fe oxide speciation for hosting soil organic matter in an allophanic Andosol. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 180, 284-302.	3.9	67
79	Spatial distribution and chemical composition of soil organic matter fractions in rhizosphere and non-rhizosphere soil under European beech (<i>Fagus sylvatica</i> L.). <i>Geoderma</i> , 2016, 264, 179-187.	5.1	79
80	Soil Organic Matter. , 2016, , 55-86.		12
81	Response of Vertisols, Andosols, and Alisols to paddy management. <i>Geoderma</i> , 2016, 261, 23-35.	5.1	36
82	Projected loss of soil organic carbon in temperate agricultural soils in the 21st century: effects of climate change and carbon input trends. <i>Scientific Reports</i> , 2016, 6, 32525.	3.3	107
83	Carbon storage capacity of semi-arid grassland soils and sequestration potentials in northern China. <i>Global Change Biology</i> , 2015, 21, 3836-3845.	9.5	95
84	Clay mineral composition modifies decomposition and sequestration of organic carbon and nitrogen in fine soil fractions. <i>Biology and Fertility of Soils</i> , 2015, 51, 427-442.	4.3	82
85	Novel Sample Preparation Technique To Improve Spectromicroscopic Analyses of Micrometer-Sized Particles. <i>Environmental Science & Technology</i> , 2015, 49, 9874-9880.	10.0	21
86	Stagnating crop yields: An overlooked risk for the carbon balance of agricultural soils?. <i>Science of the Total Environment</i> , 2015, 536, 1045-1051.	8.0	53
87	Amino sugars reflect microbial residues as affected by clay mineral composition of artificial soils. <i>Organic Geochemistry</i> , 2015, 83-84, 109-113.	1.8	18
88	Spatial distribution of soil organic matter in two fields on tidal flat sediments (Zhejiang Province,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> 178, 649-657.	1.9	3
89	Clay minerals and metal oxides strongly influence the structure of alkane-degrading microbial communities during soil maturation. <i>ISME Journal</i> , 2015, 9, 1687-1691.	9.8	21
90	Land use effects on organic carbon storage in soils of Bavaria: The importance of soil types. <i>Soil and Tillage Research</i> , 2015, 146, 296-302.	5.6	79

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91	Editorial "Ecosystems in transition: interactions and feedbacks with an emphasis on the initial development". Biogeosciences, 2014, 11, 195-200.	3.3	9
92	Organic matter from biological soil crusts induces the initial formation of sandy temperate soils. Catena, 2014, 122, 196-208.	5.0	71
93	Submicron structures provide preferential spots for carbon and nitrogen sequestration in soils. Nature Communications, 2014, 5, 2947.	12.8	288
94	Estimation of total organic carbon storage and its driving factors in soils of Bavaria (southeast) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67	2.1	67
95	Quantification of functional soil organic carbon pools for major soil units and land uses in southeast Germany (Bavaria). Agriculture, Ecosystems and Environment, 2014, 185, 208-220.	5.3	65
96	Carbon sequestration potential of soils in southeast Germany derived from stable soil organic carbon saturation. Global Change Biology, 2014, 20, 653-665.	9.5	170
97	Estimation of past and recent carbon input by crops into agricultural soils of southeast Germany. European Journal of Agronomy, 2014, 61, 10-23.	4.1	38
98	Nano-structural and chemical characterization of charred organic matter in a fire-affected Arenosol. Geoderma, 2014, 232-234, 538-546.	5.1	2
99	Decoupled carbon and nitrogen mineralization in soil particle size fractions of a forest topsoil. Soil Biology and Biochemistry, 2014, 78, 263-273.	8.8	91
100	Artificial soil studies reveal domain-specific preferences of microorganisms for the colonisation of different soil minerals and particle size fractions. FEMS Microbiology Ecology, 2014, 90, 770-782.	2.7	76
101	Distribution of cutin and suberin biomarkers under forest trees with different root systems. Plant and Soil, 2014, 381, 95-110.	3.7	55
102	Establishment of macro-aggregates and organic matter turnover by microbial communities in long-term incubated artificial soils. Soil Biology and Biochemistry, 2014, 79, 57-67.	8.8	65
103	Prolonged summer droughts retard soil N processing and stabilization in organo-mineral fractions. Soil Biology and Biochemistry, 2014, 68, 241-251.	8.8	26
104	Organic carbon accumulation on soil mineral surfaces in paddy soils derived from tidal wetlands. Geoderma, 2014, 228-229, 90-103.	5.1	60
105	Accelerated soil formation due to paddy management on marshlands (Zhejiang Province, China). Geoderma, 2014, 228-229, 67-89.	5.1	76
106	Bioavailability and isotopic composition of CO ₂ released from incubated soil organic matter fractions. Soil Biology and Biochemistry, 2014, 69, 168-178.	8.8	41
107	Soil Mineral Composition Matters: Response of Microbial Communities to Phenanthrene and Plant Litter Addition in Long-Term Matured Artificial Soils. PLoS ONE, 2014, 9, e106865.	2.5	15
108	Climate Change Induces Shifts in Abundance and Activity Pattern of Bacteria and Archaea Catalyzing Major Transformation Steps in Nitrogen Turnover in a Soil from a Mid-European Beech Forest. PLoS ONE, 2014, 9, e114278.	2.5	29

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109	Minor contribution of leaf litter to N nutrition of beech (<i>Fagus sylvatica</i>) seedlings in a mountainous beech forest of Southern Germany. <i>Plant and Soil</i> , 2013, 369, 657-668.	3.7	24
110	The carbon count of 2000 years of rice cultivation. <i>Global Change Biology</i> , 2013, 19, 1107-1113.	9.5	85
111	Amount, distribution and driving factors of soil organic carbon and nitrogen in cropland and grassland soils of southeast Germany (Bavaria). <i>Agriculture, Ecosystems and Environment</i> , 2013, 176, 39-52.	5.3	143
112	Storage and drivers of organic carbon in forest soils of southeast Germany (Bavaria) – Implications for carbon sequestration. <i>Forest Ecology and Management</i> , 2013, 295, 162-172.	3.2	107
113	Changes in litter chemistry and soil lignin signature during decomposition and stabilisation of ¹³ C labelled wheat roots in three subsoil horizons. <i>Soil Biology and Biochemistry</i> , 2013, 67, 55-61.	8.8	20
114	The role of lignin for the ¹³ C signature in C4 grassland and C3 forest soils. <i>Soil Biology and Biochemistry</i> , 2013, 57, 1-13.	8.8	26
115	Is turnover and development of organic matter controlled by mineral composition?. <i>Soil Biology and Biochemistry</i> , 2013, 67, 235-244.	8.8	58
116	Rapid transfer of ¹⁵ N from labeled beech leaf litter to functional soil organic matter fractions in a Rendzic Leptosol. <i>Soil Biology and Biochemistry</i> , 2013, 58, 323-331.	8.8	11
117	N balance and cycling of Inner Mongolia typical steppe: a comprehensive case study of grazing effects. <i>Ecological Monographs</i> , 2013, 83, 195-219.	5.4	105
118	Management-induced organic carbon accumulation in paddy soils: The role of organo-mineral associations. <i>Soil and Tillage Research</i> , 2013, 126, 60-71.	5.6	77
119	STXM and NanoSIMS Investigations on EPS Fractions before and after Adsorption to Goethite. <i>Environmental Science & Technology</i> , 2013, 47, 3158-3166.	10.0	95
120	Increased methane uptake but unchanged nitrous oxide flux in montane grasslands under simulated climate change conditions. <i>European Journal of Soil Science</i> , 2013, 64, 586-596.	3.9	30
121	Mineral composition and charcoal determine the bacterial community structure in artificial soils. <i>FEMS Microbiology Ecology</i> , 2013, 86, 15-25.	2.7	76
122	The phenanthrene sorptive interface of an arable topsoil and its particle size fractions. <i>European Journal of Soil Science</i> , 2013, 64, 121-130.	3.9	5
123	Metal oxides, clay minerals and charcoal determine the composition of microbial communities in matured artificial soils and their response to phenanthrene. <i>FEMS Microbiology Ecology</i> , 2013, 86, 3-14.	2.7	33
124	Density fractionation of organic matter in dolomite-derived soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 509-519.	1.9	13
125	Storage and stability of organic carbon in soils as related to depth, occlusion within aggregates, and attachment to minerals. <i>Biogeosciences</i> , 2013, 10, 1675-1691.	3.3	252
126	The role of microorganisms at different stages of ecosystem development for soil formation. <i>Biogeosciences</i> , 2013, 10, 3983-3996.	3.3	189

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127	Short-term degradation of semiarid grasslands—results from a controlled grazing experiment in Northern China. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 434-442.	1.9	36
128	Soil Aggregate Destruction by Ultrasonication Increases Soil Organic Matter Mineralization and Mobility. <i>Soil Science Society of America Journal</i> , 2012, 76, 1634-1643.	2.2	37
129	Grazing effects on the greenhouse gas balance of a temperate steppe ecosystem. <i>Nutrient Cycling in Agroecosystems</i> , 2012, 93, 357-371.	2.2	50
130	Development of biogeochemical interfaces in an artificial soil incubation experiment; aggregation and formation of organo-mineral associations. <i>Geoderma</i> , 2012, 189-190, 585-594.	5.1	92
131	Submicron scale imaging of soil organic matter dynamics using NanoSIMS — From single particles to intact aggregates. <i>Organic Geochemistry</i> , 2012, 42, 1476-1488.	1.8	93
132	Clay fractions from a soil chronosequence after glacier retreat reveal the initial evolution of organo-mineral associations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 1-18.	3.9	74
133	Labile organic C and N mineralization of soil aggregate size classes in semiarid grasslands as affected by grazing management. <i>Biology and Fertility of Soils</i> , 2012, 48, 305-313.	4.3	50
134	Aggregate stability and physical protection of soil organic carbon in semi-arid steppe soils. <i>European Journal of Soil Science</i> , 2012, 63, 22-31.	3.9	107
135	Soil organic carbon stocks in southeast Germany (Bavaria) as affected by land use, soil type and sampling depth. <i>Global Change Biology</i> , 2012, 18, 2233-2245.	9.5	242
136	NanoSIMS as a tool for characterizing soil model compounds and organomineral associations in artificial soils. <i>Journal of Soils and Sediments</i> , 2012, 12, 35-47.	3.0	53
137	Fractionation of Organic Matter Due to Reaction with Ferrihydrite: Coprecipitation versus Adsorption. <i>Environmental Science & Technology</i> , 2011, 45, 527-533.	10.0	217
138	Patterns and processes of initial terrestrial ecosystem development. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 229-239.	1.9	61
139	Organic carbon accumulation in a 2000-year chronosequence of paddy soil evolution. <i>Catena</i> , 2011, 87, 376-385.	5.0	91
140	Evaluating pore structures of soil components with a combination of conventional and hyperpolarised ¹²⁹ Xe NMR studies. <i>Geoderma</i> , 2011, 162, 96-106.	5.1	14
141	Concurrent evolution of organic and mineral components during initial soil development after retreat of the Damma glacier, Switzerland. <i>Geoderma</i> , 2011, 163, 83-94.	5.1	102
142	Microheterogeneity of element distribution and sulfur speciation in an organic surface horizon of a forested Histosol as revealed by synchrotron-based X-ray spectromicroscopy. <i>Organic Geochemistry</i> , 2011, 42, 1308-1314.	1.8	8
143	Persistence of soil organic matter as an ecosystem property. <i>Nature</i> , 2011, 478, 49-56.	27.8	4,243
144	Uncertainty of variance component estimates in nested sampling: a case study on the field-scale spatial variability of a restored soil. <i>European Journal of Soil Science</i> , 2011, 62, 479-495.	3.9	14

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145	Accumulation of nitrogen and microbial residues during 2000 years of rice paddy and non-paddy soil development in the Yangtze River Delta, China. <i>Global Change Biology</i> , 2011, 17, 3405-3417.	9.5	85
146	Deep soil organic matter—a key but poorly understood component of terrestrial C cycle. <i>Plant and Soil</i> , 2011, 338, 143-158.	3.7	1,239
147	Digital mapping of soil organic matter stocks using Random Forest modeling in a semi-arid steppe ecosystem. <i>Plant and Soil</i> , 2011, 340, 7-24.	3.7	335
148	Grazing changes topography-controlled topsoil properties and their interaction on different spatial scales in a semi-arid grassland of Inner Mongolia, P.R. China. <i>Plant and Soil</i> , 2011, 340, 35-58.	3.7	55
149	Distribution of soil organic matter between fractions and aggregate size classes in grazed semiarid steppe soil profiles. <i>Plant and Soil</i> , 2011, 338, 63-81.	3.7	57
150	Steppe ecosystems and climate and land-use changes—vulnerability, feedbacks and possibilities for adaptation. <i>Plant and Soil</i> , 2011, 340, 1-6.	3.7	22
151	Iron Oxides as Major Available Interface Component in Loamy Arable Topsoils. <i>Soil Science Society of America Journal</i> , 2011, 75, 2158-2168.	2.2	71
152	Response to the Concept paper: 'What is recalcitrant soil organic matter?' by Markus Kleber. <i>Environmental Chemistry</i> , 2010, 7, 333.	1.5	24
153	Soil Type-Dependent Responses to Phenanthrene as Revealed by Determining the Diversity and Abundance of Polycyclic Aromatic Hydrocarbon Ring-Hydroxylating Dioxygenase Genes by Using a Novel PCR Detection System. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4765-4771.	3.1	98
154	Initial pedogenesis in a topsoil crust 3 years after construction of an artificial catchment in Brandenburg, NE Germany. <i>Biogeochemistry</i> , 2010, 101, 165-176.	3.5	40
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