

Ingrid Kärgel-Knabner

List of Publications by Year in descending order

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Version: 2024-02-01

333
papers

37,040
citations

4136

87
h-index

3647

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.	2.5	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.	2.3	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, .	1.8	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.	6.6	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.	4.2	14
6	Earthworms as catalysts in the formation and stabilization of soil microbial necromass. <i>Global Change Biology</i> , 2022, 28, 4775-4782.	4.2	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.	4.2	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.	1.6	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.	1.8	31
10	Soil organic matter in major pedogenic soil groups. <i>Geoderma</i> , 2021, 384, 114785.	2.3	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.	1.4	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.	2.3	13
13	Initial soil aggregate formation and stabilisation in soils developed from calcareous loess. <i>Geoderma</i> , 2021, 385, 114854.	2.3	32
14	Root-induced fungal growth triggers macroaggregation in forest subsoils. <i>Soil Biology and Biochemistry</i> , 2021, 157, 108244.	4.2	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.	2.6	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.	2.6	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.	1.7	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.	2.3	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.	2.3	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, .	0.8	14
21	Subsoil organo-mineral associations under contrasting climate conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 244-263.	1.6	46
22	Rhizosphere Spatiotemporal Organization – A Key to Rhizosphere Functions. <i>Frontiers in Agronomy</i> , 2020, 2, .	1.5	54
23	Persistence of soil organic carbon caused by functional complexity. <i>Nature Geoscience</i> , 2020, 13, 529-534.	5.4	363
24	The concept and future prospects of soil health. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 544-553.	12.2	486
25	Organo-mineral interactions and soil carbon mineralizability with variable saturation cycle frequency. <i>Geoderma</i> , 2020, 375, 114483.	2.3	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.	2.2	7
27	Combination of energy limitation and sorption capacity explains 14C depth gradients. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107912.	4.2	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.	2.3	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, .	1.5	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.	2.3	944
31	Soil microaggregate size composition and organic matter distribution as affected by clay content. <i>Geoderma</i> , 2019, 355, 113901.	2.3	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.	1.1	3
33	Organic matter input determines structure development and aggregate formation in artificial soils. <i>Geoderma</i> , 2019, 354, 113881.	2.3	76
34	An indicator for organic matter dynamics in temperate agricultural soils. <i>Agriculture, Ecosystems and Environment</i> , 2019, 274, 62-75.	2.5	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.	2.5	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.	2.6	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.	2.6	32
38	Consumption and alteration of different organic matter sources during remediation of a sandy sulfuric soil. <i>Geoderma</i> , 2019, 347, 220-232.	2.3	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.	1.1	4
40	Organic matter in temperate cultivated floodplain soils: Light fractions highly contribute to subsoil organic carbon. <i>Geoderma</i> , 2019, 337, 679-690.	2.3	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.	3.9	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.	0.7	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, .	1.4	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.	4.2	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.	1.8	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.	1.6	84
47	Drivers of organic carbon allocation in a temperate slope-floodplain catena under agricultural use. <i>Geoderma</i> , 2018, 327, 63-72.	2.3	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.	2.4	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.	1.4	34
50	Stable-isotope Raman microspectroscopy for the analysis of soil organic matter. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 923-931.	1.9	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.	4.2	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.	4.2	48
53	Microaggregates in soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 104-136.	1.1	567
54	Root Exudates Induce Soil Macroaggregation Facilitated by Fungi in Subsoil. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	128

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55	Hotspots of soil organic carbon storage revealed by laboratory hyperspectral imaging. <i>Scientific Reports</i> , 2018, 8, 13900.	1.6	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.	2.5	24
58	Alteration of organic matter during remediation of acid sulfate soils. <i>Geoderma</i> , 2018, 332, 121-134.	2.3	17
59	A systemic approach for modeling soil functions. <i>Soil</i> , 2018, 4, 83-92.	2.2	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.	1.7	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.	1.1	7
62	Identification of Distinct Functional Microstructural Domains Controlling C Storage in Soil. <i>Environmental Science & Technology</i> , 2017, 51, 12182-12189.	4.6	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.	0.9	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.	2.3	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.	0.9	29
67	Anthropogenic N deposition increases soil organic matter accumulation without altering its biochemical composition. <i>Global Change Biology</i> , 2017, 23, 933-944.	4.2	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.	4.2	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.	2.3	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.	1.1	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.	2.5	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.	1.6	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.	2.3	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.	0.9	58
76	Carbon and nitrogen mineralization in hierarchically structured aggregates of different size. <i>Soil and Tillage Research</i> , 2016, 160, 23-33.	2.6	80
77	Succession of soil microbial communities and enzyme activities in artificial soils. <i>Pedobiologia</i> , 2016, 59, 93-104.	0.5	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.	1.6	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.	2.3	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.	2.3	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.	1.6	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.	4.2	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.	2.3	82
85	Novel Sample Preparation Technique To Improve Spectromicroscopic Analyses of Micrometer-Sized Particles. <i>Environmental Science & Technology</i> , 2015, 49, 9874-9880.	4.6	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.	3.9	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.	0.9	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.	1.1	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.	4.4	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.	2.6	79

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91	Editorial "Ecosystems in transition: interactions and feedbacks with an emphasis on the initial development". <i>Biogeosciences</i> , 2014, 11, 195-200.	1.3	9
92	Organic matter from biological soil crusts induces the initial formation of sandy temperate soils. <i>Catena</i> , 2014, 122, 196-208.	2.2	71
93	Submicron structures provide preferential spots for carbon and nitrogen sequestration in soils. <i>Nature Communications</i> , 2014, 5, 2947.	5.8	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	0.9	67
95	Quantification of functional soil organic carbon pools for major soil units and land uses in southeast Germany (Bavaria). <i>Agriculture, Ecosystems and Environment</i> , 2014, 185, 208-220.	2.5	65
96	Carbon sequestration potential of soils in southeast Germany derived from stable soil organic carbon saturation. <i>Global Change Biology</i> , 2014, 20, 653-665.	4.2	170
97	Estimation of past and recent carbon input by crops into agricultural soils of southeast Germany. <i>European Journal of Agronomy</i> , 2014, 61, 10-23.	1.9	38
98	Nano-structural and chemical characterization of charred organic matter in a fire-affected Arenosol. <i>Geoderma</i> , 2014, 232-234, 538-546.	2.3	2
99	Decoupled carbon and nitrogen mineralization in soil particle size fractions of a forest topsoil. <i>Soil Biology and Biochemistry</i> , 2014, 78, 263-273.	4.2	91
100	Artificial soil studies reveal domain-specific preferences of microorganisms for the colonisation of different soil minerals and particle size fractions. <i>FEMS Microbiology Ecology</i> , 2014, 90, 770-782.	1.3	76
101	Distribution of cutin and suberin biomarkers under forest trees with different root systems. <i>Plant and Soil</i> , 2014, 381, 95-110.	1.8	55
102	Establishment of macro-aggregates and organic matter turnover by microbial communities in long-term incubated artificial soils. <i>Soil Biology and Biochemistry</i> , 2014, 79, 57-67.	4.2	65
103	Prolonged summer droughts retard soil N processing and stabilization in organo-mineral fractions. <i>Soil Biology and Biochemistry</i> , 2014, 68, 241-251.	4.2	26
104	Organic carbon accumulation on soil mineral surfaces in paddy soils derived from tidal wetlands. <i>Geoderma</i> , 2014, 228-229, 90-103.	2.3	60
105	Accelerated soil formation due to paddy management on marshlands (Zhejiang Province, China). <i>Geoderma</i> , 2014, 228-229, 67-89.	2.3	76
106	Bioavailability and isotopic composition of CO ₂ released from incubated soil organic matter fractions. <i>Soil Biology and Biochemistry</i> , 2014, 69, 168-178.	4.2	41
107	Soil Mineral Composition Matters: Response of Microbial Communities to Phenanthrene and Plant Litter Addition in Long-Term Matured Artificial Soils. <i>PLoS ONE</i> , 2014, 9, e106865.	1.1	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. <i>PLoS ONE</i> , 2014, 9, e114278.	1.1	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.	1.8	24
110	The carbon count of 2000 years of rice cultivation. <i>Global Change Biology</i> , 2013, 19, 1107-1113.	4.2	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.	2.5	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.	1.4	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.	4.2	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.	4.2	26
115	Is turnover and development of organic matter controlled by mineral composition?. <i>Soil Biology and Biochemistry</i> , 2013, 67, 235-244.	4.2	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.	4.2	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.	2.4	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.	2.6	77
119	STXM and NanoSIMS Investigations on EPS Fractions before and after Adsorption to Goethite. <i>Environmental Science & Technology</i> , 2013, 47, 3158-3166.	4.6	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.	1.8	30
121	Mineral composition and charcoal determine the bacterial community structure in artificial soils. <i>FEMS Microbiology Ecology</i> , 2013, 86, 15-25.	1.3	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.	1.8	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.	1.3	33
124	Density fractionation of organic matter in dolomite-derived soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 509-519.	1.1	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.	1.3	252
126	The role of microorganisms at different stages of ecosystem development for soil formation. <i>Biogeosciences</i> , 2013, 10, 3983-3996.	1.3	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.	1.1	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.	1.2	37
129	Grazing effects on the greenhouse gas balance of a temperate steppe ecosystem. <i>Nutrient Cycling in Agroecosystems</i> , 2012, 93, 357-371.	1.1	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.	2.3	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.	0.9	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.	1.6	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.	2.3	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.	1.8	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.	4.2	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.	1.5	53
137	Fractionation of Organic Matter Due to Reaction with Ferrihydrite: Coprecipitation versus Adsorption. <i>Environmental Science & Technology</i> , 2011, 45, 527-533.	4.6	217
138	Patterns and processes of initial terrestrial ecosystem development. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 229-239.	1.1	61
139	Organic carbon accumulation in a 2000-year chronosequence of paddy soil evolution. <i>Catena</i> , 2011, 87, 376-385.	2.2	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.	2.3	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.	2.3	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.	0.9	8
143	Persistence of soil organic matter as an ecosystem property. <i>Nature</i> , 2011, 478, 49-56.	13.7	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.	1.8	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.	4.2	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.	1.8	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.	1.8	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.	1.8	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.	1.8	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.	1.8	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.	1.2	71
152	Response to the Concept paper: 'What is recalcitrant soil organic matter?' by Markus Kleber. <i>Environmental Chemistry</i> , 2010, 7, 333.	0.7	24
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