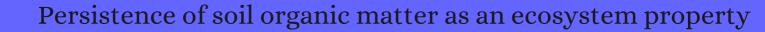
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2273	The Quantitative Soil Pit Method for Measuring Belowground Carbon and Nitrogen Stocks. <b>2012</b> , 76, 2241-2255		30
2272	Molecular models of natural organic matter and its colloidal aggregation in aqueous solutions: Challenges and opportunities for computer simulations. <b>2012</b> , 85, 149-158		9
2271	Large-scale sequestration of atmospheric carbon via plant roots in natural and agricultural ecosystems: why and how. <b>2012</b> , 367, 1589-97		165
2270	Geochemistry: A rusty carbon sink. <i>Nature</i> , <b>2012</b> , 483, 165-6	50.4	21
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1727	Living Shorelines: Coastal Resilience with a Blue Carbon Benefit. <b>2015</b> , 10, e0142595	71
1726	Plant growth conditions alter phytolith carbon. <b>2015</b> , 6, 753	24
1725	Characteristics and Functions of Labile Organic Carbon in Coastal Wetland Soils of the Mississippi River Deltaic Plain. <b>2015</b> , 315-336	Ο
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1723	The regulation by phenolic compounds of soil organic matter dynamics under a changing environment. <b>2015</b> , 2015, 825098	50
1722	Microbial carbon recycling: an underestimated process controlling soil carbon dynamics âlPart 2: A C<sub>3</sub>-C<sub>4</sub> vegetation change field labelling experiment. <b>2015</b> , 12, 6291-6299	7
1721	Chemical Indicators of Cryoturbation and Microbial Processing throughout an Alaskan Permafrost Soil Depth Profile. <b>2015</b> , 79, 783-793	20

1720	Microbiological and faunal soil attributes of coffee cultivation under different management systems in Brazil. <b>2015</b> , 75, 894-905	7
1719	An Economic Assessment of Soil Carbon Sequestration with Biochar in Germany. <b>2015</b> ,	1
1718	Controls on terrestrial carbon feedbacks by productivity versus turnover in the CMIP5 Earth System Models. <b>2015</b> , 12, 5211-5228	58
1717	Distribution of black carbon in ponderosa pine forest floor and soils following the High Park wildfire. <b>2015</b> , 12, 3029-3039	36
1716	Absence of a priming effect on dissolved organic carbon degradation in lake water. <b>2015</b> , 60, 159-168	65
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1714	Chemical footprints of anthropogenic nitrogen deposition on recent soil C : N ratios in Europe. <b>2015</b> ,	3
1713	Humic acid adsorption onto cationic cellulose nanofibers for bioinspired removal of copper(II) and a positively charged dye. <b>2015</b> , 11, 5294-300	60
1712	Long-term forest soil warming alters microbial communities in temperate forest soils. <b>2015</b> , 6, 104	187
1711	Sub-surface soil carbon changes affects biofuel greenhouse gas emissions. <b>2015</b> , 81, 31-34	15
1710	Carbon availability regulates soil respiration response to nitrogen and temperature. <b>2015</b> , 88, 158-164	53
1709	Loss of labile organic carbon from subsoil due to land-use changes in subtropical China. <b>2015</b> , 88, 148-157	75
1708	Soil organic matter and the extracellular microbial matrix show contrasting responses to C and N availability. <b>2015</b> , 88, 257-267	37
1707	Exploring the multiplicity of soil-human interactions: organic carbon content, agro-forest landscapes and the Italian local communities. <b>2015</b> , 187, 283	2
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1705	Persistence of dissolved organic matter in lakes related to its molecular characteristics. <b>2015</b> , 8, 454-457	288
1704	Investigating microbial transformations of soil organic matter: synthesizing knowledge from disparate fields to guide new experimentation. <b>2015</b> , 1, 313-330	19
1703	Representing life in the Earth system with soil microbial functional traits in the MIMICS model. <b>2015</b> ,	18

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1699	Hydration and diffusion processes shape microbial community organization and function in model soil aggregates. <b>2015</b> , 51, 9804-9827	72
1698	Impacts of endophyte infection of ryegrass on rhizosphere metabolome and microbial community. <b>2015</b> , 66, 1049	5
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1695	The Importance of Ectomycorrhizal Networks for Nutrient Retention and Carbon Sequestration in Forest Ecosystems. <b>2015</b> , 69-90	3
1694	Pervasive and strong effects of plants on soil chemistry: a meta-analysis of individual plant 'Zinke' effects. <b>2015</b> , 282, 20151001	69
1693	Differences in fertilization impacts on organic carbon content and stability in a paddy and an upland soil in subtropical China. <b>2015</b> , 397, 189-200	18
1692	Effect of dairy manure type on the carbon balance of mowed grassland in Nasu, Japan: comparison between manure slurry plus synthetic fertilizer plots and farmyard manure plus synthetic fertilizer plots. <b>2015</b> , 61, 736-746	9
1691	Microorganisms and their substrate utilization patterns in topsoil and subsoil layers of two silt loams, differing in soil organic C accumulation due to colluvial processes. <b>2015</b> , 91, 310-317	31
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1689	NanoSIMS investigation of glycine-derived C and N retention with soil organo-mineral associations. <b>2015</b> , 125, 303-313	15
1688	Impact of soil and water conservation on soil organic carbon content in a catchment of the middle Han River, China. <b>2015</b> , 74, 6503-6510	13
1687	Annual burning of a tallgrass prairie inhibits C and N cycling in soil, increasing recalcitrant pyrogenic organic matter storage while reducing N availability. <b>2015</b> , 21, 2321-33	48
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1685	Incipient changes of lignin and substituted fatty acids under N addition in a Chinese forest soil. <b>2015</b> , 79, 14-20	11

1684	Pyrolytic appraisal of the lignin signature in soil humic acids: Assessment of its usefulness as carbon sequestration marker. <b>2015</b> , 113, 107-115	18
1683	Modeling the Dynamics of Soil Organic Matter and Nutrient Cycling. <b>2015</b> , 505-537	10
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1681	Surficial gains and subsoil losses of soil carbon and nitrogen during secondary forest development. <b>2015</b> , 21, 986-96	77
1680	The importance of tree species and soil taxonomy to modeling forest soil carbon stocks in Canada. <b>2015</b> , 4, 114-125	12
1679	Soil organic carbon stocks and CO2 effluxes of native and exotic pine plantations in subtropical China. <b>2015</b> , 128, 167-173	23
1678	Climate-Change Effects on Soils: Accelerated Weathering, Soil Carbon, and Elemental Cycling. <b>2015</b> , 131, 111-172	18
1677	Priming of the decomposition of ageing soil organic matter: concentration dependence and microbial control. <b>2015</b> , 29, 285-296	42
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1673	Contrasting regimes for organic matter degradation in the East Siberian Sea and the Laptev Sea assessed through microbial incubations and molecular markers. <b>2015</b> , 170, 11-22	19
1672	Pre-aged soil organic carbon as a major component of the Yellow River suspended load: Regional significance and global relevance. <b>2015</b> , 414, 77-86	107
1671	Distinctive organic matter pools among particle-size fractions detected by solid-state 13C-NMR, IBS and IBSN analyses only after strong dispersion in an allophanic Andisol. <b>2015</b> , 61, 242-248	10
1670	Metabolic theory predicts whole-ecosystem properties. <b>2015</b> , 112, 2617-22	78
1669	Changes in root architecture under elevated concentrations of COâland nitrogen reflect alternate soil exploration strategies. <b>2015</b> , 205, 1153-1163	34
1668	Management of crop water under drought: a review. <b>2015</b> , 35, 401-442	245
1667	Characterization of natural organic matter in bentonite clays for potential use in deep geological repositories for used nuclear fuel. <b>2015</b> , 54, 43-53	18

1666	Soil carbon dynamics following land-use change varied with temperature and precipitation gradients: evidence from stable isotopes. <b>2015</b> , 21, 2762-2772	70
1665	Soil warming and nitrogen deposition alter soil organic matter composition at the molecular-level. <b>2015</b> , 123, 391-409	54
1664	Carbon accumulates in organo-mineral complexes after long-term liquid dairy manure application. <b>2015</b> , 202, 108-119	24
1663	No evidence of aquatic priming effects in hyporheic zone microcosms. <b>2014</b> , 4, 5187	55
1662	Organic matter decomposition: bridging the gap between Rockâ <b>E</b> val pyrolysis and chemical characterization (CPMAS 13C NMR). <b>2015</b> , 122, 101-111	31
1661	Comparison of organic matter composition in agricultural versus forest affected headwaters with special emphasis on organic nitrogen. <b>2015</b> , 49, 2081-90	56
1660	Distinct temperature sensitivity of soil carbon decomposition in forest organic layer and mineral soil. <b>2014</b> , 4, 6512	23
1659	Stable isotope ratios of nonexchangeable hydrogen in organic matter of soils and plants along a 2100-km climosequence in Argentina: New insights into soil organic matter sources and transformations?. <b>2015</b> , 152, 54-71	7
1658	MineralâDrganic Associations: Formation, Properties, and Relevance in Soil Environments. <b>2015</b> , 130, 1-140	495
1657	The roles of inoculants' carbon source use in the biocontrol of potato scab disease. <b>2015</b> , 61, 257-62	3
1656	Soil microbial community composition does not predominantly determine the variance of heterotrophic soil respiration across four subtropical forests. <b>2015</b> , 5, 7854	21
1655	Invasive Earthworms Deplete Key Soil Inorganic Nutrients (Ca, Mg, K, and P) in a Northern Hardwood Forest. <b>2015</b> , 18, 89-102	43
1654	Impact of Exotic Earthworms on Organic Carbon Sorption on Mineral Surfaces and Soil Carbon Inventories in a Northern Hardwood Forest. <b>2015</b> , 18, 16-29	20
1653	Climatic patterns modulate ecosystem and soil respiration responses to fertilization in an alpine meadow on the Tibetan Plateau, China. <b>2015</b> , 30, 3-13	21
1652	Soil aggregate stability to predict organic carbon outputs from soils. <b>2015</b> , 243-244, 205-213	95
1651	Predicting the long-term fate of buried organic carbon in colluvial soils. <b>2015</b> , 29, 65-79	19
1650	Drying and substrate concentrations interact to inhibit decomposition of carbon substrates added to combusted Inceptisols from a boreal forest. <b>2015</b> , 51, 525-533	6
1649	Ectomycorrhizal fungi - potential organic matter decomposers, yet not saprotrophs. <b>2015</b> , 205, 1443-1447	379

1648	Litter type control on soil C and N stabilization dynamics in a temperate forest. <b>2015</b> , 21, 1358-67	46
1647	Plant-soil feedbacks and the partial recovery of soil spatial patterns on abandoned well pads in a sagebrush shrubland. <b>2015</b> , 25, 3-10	11
1646	The Role of Critical Zone Observatories in Critical Zone Science. <b>2015</b> , 15-78	41
1645	Soil Geochemistry in the Critical Zone: Influence on Atmosphere, Surface- and Groundwater Composition. <b>2015</b> , 173-201	5
1644	Predicting soil organic matter stability in agricultural fields through carbon and nitrogen stable isotopes. <b>2015</b> , 88, 29-38	36
1643	In situ visualisation and characterisation of the capacity of highly reactive minerals to preserve soil organic matter (SOM) in colloids at submicron scale. <b>2015</b> , 138, 225-32	33
1642	Towards a mechanistic understanding of carbon stabilization in manganese oxides. <b>2015</b> , 6, 7628	69
1641	Engineering soil organic matter quality: Biodiesel Co-Product (BCP) stimulates exudation of nitrogenous microbial biopolymers. <b>2015</b> , 259-260, 205-212	4
1640	Individual-based modeling of soil organic matter in NetLogo: Transparent, user-friendly, and open. <b>2015</b> , 71, 39-45	25
1639	Control of climate and litter quality on leaf litter decomposition in different climatic zones. <b>2015</b> , 128, 791-802	12
1638	Relating the biological stability of soil organic matter to energy availability in deep tropical soil profiles. <b>2015</b> , 89, 162-171	21
1637	Land use change effects on carbon and nitrogen stocks in the Pyrenees during the last 150 years: A modeling approach. <b>2015</b> , 312, 322-334	12
1636	Effects of forest management on productivity and carbon sequestration: A review and hypothesis. <b>2015</b> , 355, 124-140	110
1635	Metabolising old soil carbon: Simply a matter of simple organic matter?. <b>2015</b> , 88, 128-136	27
1634	Contribution of sorption, DOC transport and microbial interactions to the 14C age of a soil organic carbon profile: Insights from a calibrated process model. <b>2015</b> , 88, 390-402	91
1633	Advanced solvent based methods for molecular characterization of soil organic matter by high-resolution mass spectrometry. <b>2015</b> , 87, 5206-15	120
1632	Plant growth improvement mediated by nitrate capture in co-composted biochar. <b>2015</b> , 5, 11080	200
1631	The compositional evolution of dissolved and particulate organic matter along the lower Amazon RiverâBidos to the ocean. <b>2015</b> , 177, 244-256	58

1630	Phosphorus fractions and organic matter chemistry under different land use on Humic Cambisols in Southern Brazil. <b>2015</b> , 5, 140-149	10
1629	Deciphering sedimentary organic matter sources: Insights from radiocarbon measurements and NMR spectroscopy. <b>2015</b> , 60, 739-753	6
1628	Ecological interpretations of nitrogen isotope ratios of terrestrial plants and soils. <b>2015</b> , 396, 1-26	291
1627	Temperature response of soil organic matter mineralisation in arctic soil profiles. <b>2015</b> , 88, 236-246	35
1626	Effects of environmental and biotic factors on carbon isotopic fractionation during decomposition of soil organic matter. <b>2015</b> , 5, 11043	38
1625	Selective stabilization of aliphatic organic carbon by iron oxide. <b>2015</b> , 5, 11214	63
1624	From humic substances to soil organic matterâthicrobial contributions. In honour of Konrad Haider and James P. Martin for their outstanding research contribution to soil science. <b>2015</b> , 15, 1865-1881	33
1623	A general mathematical framework for representing soil organic matter dynamics. <b>2015</b> , 85, 505-524	57
1622	Are interactions between organic compounds and nanoscale weathering minerals the key drivers of carbon storage in soils?. <b>2015</b> , 49, 3997-8	39
1621	Biochar stimulates plant growth but not fruit yield of processing tomato in a fertile soil. <b>2015</b> , 207, 163-170	115
1620	Long-term controls on soil organic carbon with depth and time: A case study from the Cowlitz River Chronosequence, WA USA. <b>2015</b> , 247-248, 73-87	72
1619	Plant-associated fungal communities in the light of metaâ®mics. <b>2015</b> , 75, 1-25	120
1618	Reconstruction of environmental changes during the late glacial and Holocene reflected in a soil-sedimentary sequence from the lower Selenga River valley, Lake Baikal region, Siberia, assessed by lipid molecular proxies. <b>2015</b> , 365, 190-202	7
1617	Will changes in climate and land use affect soil organic matter composition? Evidence from an ecotonal climosequence. <b>2015</b> , 253-254, 48-60	21
1616	Ten-year results of seedling growth on calcareous soils in the interior of British Columbia, Canada. <b>2015</b> , 346, 65-80	2
1615	Plant species effects on nutrient cycling: revisiting litter feedbacks. <b>2015</b> , 30, 357-63	270
1614	Mineral soil carbon pool responses to forest clearing in Northeastern hardwood forests. <b>2015</b> , 7, 1283-1293	20
1613	Microbial contribution to SOM quantity and quality in density fractions of temperate arable soils. <b>2015</b> , 81, 311-322	82

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1611	Fresh carbon input differentially impacts soil carbon decomposition across natural and managed systems. <b>2015</b> , 96, 2806-13	25
1610	Nitrogen limitation on land: how can it occur in Earth system models?. <b>2015</b> , 21, 1777-93	88
1609	Soil-specific effects of urea addition on mineralization of aromatic and proteinaceous components of humic-like substances in three agricultural soils. <b>2015</b> , 51, 615-623	2
1608	Effect of the Relative Abundance of Conifers Versus Hardwoods on Soil 13C Enrichment with Soil Depth in Eastern Canadian forests. <b>2015</b> , 18, 629-642	10
1607	Long-term development of soil organic carbon and nitrogen stocks after shelterwood- and clear-cutting in a mountain forest in the Bavarian Limestone Alps. <b>2015</b> , 134, 623-640	14
1606	Climatic and landscape influences on soil moisture are primary determinants of soil carbon fluxes in seasonally snow-covered forest ecosystems. <b>2015</b> , 123, 447-465	37
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1604	Catalytic kinetics and activation energy of soil peroxidases across ecosystems of differing lignin chemistries. <b>2015</b> , 124, 113-129	17
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1602	After the flood: changing dissolved organic carbon bioavailability and bacterial growth following inflows to estuaries. <b>2015</b> , 124, 219-233	20
1601	Practical applications of thermogravimetry in soil science. <b>2015</b> , 120, 471-480	15
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1599	Variations of soil aggregates and soil organic carbon mineralization across forest types on the northern slope of Changbai Mountain. <b>2015</b> , 35, 1-7	62
1598	Water-soluble organic acids in cryomorphic peat soils of the southeastern BolâEhezemelâEkaya tundra. <b>2015</b> , 48, 250-256	8
1597	Variation in stocks and distribution of organic C in soils across 21 eastern Canadian temperate and boreal forests. <b>2015</b> , 345, 29-38	26
1596	Carbon sequestration in a limestone quarry mine soil amended with sewage sludge. <b>2015</b> , 31, 270-278	11
1595	Effects of climate extremes on the terrestrial carbon cycle: concepts, processes and potential future impacts. <b>2015</b> , 21, 2861-80	454

1594	Quantification of refractory organic material in Amazon mudbanks of the French Guiana Coast. <b>2015</b> , 363, 93-101	8
1593	Parent material and vegetation influence soil microbial community structure following 30-years of rock weathering and pedogenesis. <b>2015</b> , 69, 383-94	19
1592	The molecular composition of dissolved organic matter in forest soils as a function of pH and temperature. <b>2015</b> , 10, e0119188	52
1591	Two decades of warming increases diversity of a potentially lignolytic bacterial community. <b>2015</b> , 6, 480	50
1590	Molecular chemistry in humic Ferralsols from Brazilian Cerrado and forest biomes indicates a major contribution from black carbon in the subsoil. <b>2015</b> , 113, 518-528	15
1589	Permafrost carbon-climate feedback is sensitive to deep soil carbon decomposability but not deep soil nitrogen dynamics. <b>2015</b> , 112, 3752-7	190
1588	Lignin decomposition is sustained under fluctuating redox conditions in humid tropical forest soils. <b>2015</b> , 21, 2818-2828	46
1587	Organic acid induced release of nutrients from metal-stabilized soil organic matter âl <b>T</b> he unbutton model. <b>2015</b> , 84, 168-176	136
1586	Association of soil organic carbon with physically separated soil fractions in different land uses of Costa Rica. <b>2015</b> , 65, 448-459	
1585	Effects of litter traits, soil biota, and soil chemistry on soil carbon stocks at a common garden with 14 tree species. <b>2015</b> , 123, 313-327	61
1584	Effects of Cultivation and Alternative Vineyard Management Practices on Soil Carbon Storage in Diverse Mediterranean Landscapes: A Review of the Literature. <b>2015</b> , 39, 516-550	14
1583	Aggregate dynamics and associated soil organic matter in topsoils of two 2,000-year paddy soil chronosequences. <b>2015</b> , 15, 510-522	11
1582	Ecosystems in four dimensions. <b>2015</b> , 206, 883-885	13
1581	The priming effect of soluble carbon inputs in organic and mineral soils from a temperate forest. <b>2015</b> , 178, 1239-50	36
1580	Plant diversity increases soil microbial activity and soil carbon storage. <b>2015</b> , 6, 6707	575
1579	Mineral protection of soil carbon counteracted by root exudates. <b>2015</b> , 5, 588-595	443
1578	Labile, recalcitrant, microbial carbon and nitrogen and the microbial community composition at two Abies faxoniana forest elevations under elevated temperatures. <b>2015</b> , 91, 1-13	46
1577	Microbial physiology and necromass regulate agricultural soil carbon accumulation. <b>2015</b> , 91, 279-290	150

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1576	different soil depths. <b>2015</b> , 126, 85-98	31
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1574	Redefining fine roots improves understanding of below-ground contributions to terrestrial biosphere processes. <b>2015</b> , 207, 505-18	593
1573	Ancient low-molecular-weight organic acids in permafrost fuel rapid carbon dioxide production upon thaw. <b>2015</b> , 112, 13946-51	155
1572	Divergent responses of organic matter composition to incubation temperature. <b>2015</b> , 259-260, 279-287	2
1571	Agricultural intensification and the functional capacity of soil microbes on smallholder African farms. <b>2015</b> , 52, 744-752	31
1570	Living roots magnify the response of soil organic carbon decomposition to temperature in temperate grassland. <b>2015</b> , 21, 1368-75	18
1569	Mechanisms of soil carbon accrual and storage in bioenergy cropping systems. <b>2015</b> , 7, 161-174	77
1568	Bioenergy crop greenhouse gas mitigation potential under a range of management practices. <b>2015</b> , 7, 366-374	52
1567	When do grazers accelerate or decelerate soil carbon and nitrogen cycling in tundra? A test of theory on grazing effects in fertile and infertile habitats. <b>2015</b> , 124, 593-602	29
1566	Mineralization of organic matter in gray forest soil and typical chernozem with degraded structure due to physical impacts. <b>2015</b> , 48, 1136-1148	4
1565	Benthic-pelagic coupling of nutrients and dissolved organic matter composition in an intertidal sandy beach. <b>2015</b> , 176, 150-163	52
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1558	Simulating Forest Recovery Following Disturbances: Vegetation Dynamics and Biogeochemistry. <b>2015</b> , 263-285		2
1557	Maize lines with different nitrogen use efficiency select bacterial communities with different Eglucosidase-encoding genes and glucosidase activity in the rhizosphere. <b>2015</b> , 51, 995-1004		31
1556	Soil aggregate size mediates the impacts of cropping regimes on soil carbon and microbial communities. <b>2015</b> , 91, 169-181		107
1555	Competitive sorption of microbial metabolites on an iron oxide mineral. <b>2015</b> , 90, 34-41		28
1554	The contentious nature of soil organic matter. <i>Nature</i> , <b>2015</b> , 528, 60-8	э.4	1532
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1550	Rhizosphere processes are quantitatively important components of terrestrial carbon and nutrient cycles. <b>2015</b> , 21, 2082-94		283
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1541	Dry-rewetting cycles regulate wheat carbon rhizodeposition, stabilization and nitrogen cycling. <b>2015</b> , 81, 195-203		59

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1531 1530	Beyond carbon sequestration: soil as conduit of solar energy. <b>2015</b> , 66, 19-32  Humus balances of different farm production systems in main production areas in Austria. <b>2015</b> , 178, 25-34	50
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1342	Belowground carbon flux links biogeochemical cycles and resource-use efficiency at the global scale. <b>2016</b> , 19, 1419-1428	56
1341	Carbohydrate metabolism in ectomycorrhizal symbiosis. <b>2016</b> , 159-177	1
1340	Soil organic matter decomposition mechanisms in ectomycorrhizal fungi. <b>2016</b> , 257-275	6
1339	Fungal ecology in boreal forest ecosystems. <b>2016</b> , 387-404	7
1338	Biochar affects carbon composition and stability in soil: a combined spectroscopy-microscopy study. <b>2016</b> , 6, 25127	56
1337	The adsorption of fungal ice-nucleating proteins on mineral dusts: a terrestrial reservoir of atmospheric ice-nucleating particles. <b>2016</b> , 16, 7879-7887	60
1336	Characterization, Quantification and Compound-specific Isotopic Analysis of Pyrogenic Carbon Using Benzene Polycarboxylic Acids (BPCA). <b>2016</b> ,	13
1335	In memoriam Prof. F.J. Stevenson and the Question of humic substances in soil. <b>2016</b> , 3,	23
1334	Increased wintertime CO2 loss as a result of sustained tundra warming. <b>2016</b> , 121, 249-265	63
1333	Effects of compositional changes on reactivity continuum and decomposition kinetics of lake dissolved organic matter. <b>2016</b> , 121, 1733-1746	29
1332	Mycorrhizal and saprotrophic fungal guilds compete for the same organic substrates but affect decomposition differently. <b>2016</b> , 30, 1967-1978	117
1331	Afforestation impacts microbial biomass and its natural (13)C and (15)N abundance in soil aggregates in central China. <b>2016</b> , 568, 52-56	12
1330	Soil carbon storage, respiration potential, and organic matter quality across an age and climate gradient in southwestern Greenland. <b>2016</b> , 39, 1283-1295	9
1329	Are oxygen limitations under recognized regulators of organic carbon turnover in upland soils?. <b>2016</b> , 127, 157-171	164
1328	Microbial carbon use efficiency: accounting for population, community, and ecosystem-scale controls over the fate of metabolized organic matter. <b>2016</b> , 127, 173-188	172
1327	Microbial acclimation triggered loss of soil carbon fractions in subtropical wetlands subjected to experimental warming in a laboratory study. <b>2016</b> , 406, 101-116	5
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1325	It's all about functionality: How can metaproteomics help us to discuss the attributes of ecological relevance in soil?. <b>2016</b> , 144, 159-61	22

1324	Protein-Mineral Interactions: Molecular Dynamics Simulations Capture Importance of Variations in Mineral Surface Composition and Structure. <b>2016</b> , 32, 6194-209	22
1323	Methodological uncertainty in estimating carbon turnover times of soil fractions. <b>2016</b> , 100, 118-124	30
1322	Effect of the endogeic earthworm Aporrectodea tuberculata on aggregation and carbon redistribution in uninvaded forest soil columns. <b>2016</b> , 100, 192-200	24
1321	The role of microarthropods in emerging models of soil organic matter. <b>2016</b> , 102, 37-39	37
1320	Heterogeneity of carbon loss and its temperature sensitivity in East-European subarctic tundra soils. <b>2016</b> , 92,	9
1319	Practical application of thermogravimetry in soil science. <b>2016</b> , 123, 2441-2450	13
1318	Temporal variations of soil respiration at multiple timescales in a spruce-fir valley forest, northeastern China. <b>2016</b> , 16, 2385-2394	8
1317	Soil carbon dynamics and climate change: current agro-environmental perspectives and future dimensions. <b>2016</b> , 1, 315-322	16
1316	Confidence in soil carbon predictions undermined by the uncertainties in observations and model parameterisation. <b>2016</b> , 80, 26-32	14
1315	Organic nitrogen storage in mineral soil: Implications for policy and management. <b>2016</b> , 551-552, 116-26	77
1314	Linking microbial immobilization of fertilizer nitrogen to in situ turnover of soil microbial residues in an agro-ecosystem. <b>2016</b> , 229, 40-47	19
1313	Changes in SOM composition and stability to microbial degradation over time in response to wood chip ash fertilisation. <b>2016</b> , 99, 179-186	12
1312	Plant âlMicrobial and mineral contributions to amino acid and protein organic matter accumulation during 4000 years of pedogenesis. <b>2016</b> , 100, 42-50	8
1311	Shifts in taxonomic and functional microbial diversity with agriculture: How fragile is the Brazilian Cerrado?. <b>2016</b> , 16, 42	47
1310	Successional patterns along soil development gradients formed by glacier retreat in the Maritime Antarctic, King George Island. <b>2016</b> , 89,	20
1309	Potential carbon emissions dominated by carbon dioxide from thawed permafrost soils. <b>2016</b> , 6, 950-953	211
1308	Organic matter losses in German Alps forest soils since the 1970s most likely caused by warming. <b>2016</b> , 9, 543-548	51
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1305	In situ roots decompose faster than shoots left on the soil surface under subtropical no-till conditions. <b>2016</b> , 52, 853-865	12
1304	The role of poorly crystalline iron oxides in the stability of soil aggregate-associated organic carbon in a riceâl/wheat cropping system. <b>2016</b> , 279, 1-10	43
1303	Opposing effects of different soil organic matter fractions on crop yields. <b>2016</b> , 26, 2072-2085	20
1302	The properties and functions of biochars in forest ecosystems. <b>2016</b> , 16, 2005-2020	34
1301	Tamm Review: Sequestration of carbon from coarse woody debris in forest soils. <b>2016</b> , 377, 1-15	59
1300	Toward more realistic projections of soil carbon dynamics by Earth system models. <b>2016</b> , 30, 40-56	251
1299	Dual, differential isotope labeling shows the preferential movement of labile plant constituents into mineral-bonded soil organic matter. <b>2016</b> , 22, 2301-12	70
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1295	Bacterial and fungal colonization and decomposition of submerged plant litter: consequences for biogenic silica dissolution. <b>2016</b> , 92,	11
1294	Soil formation and its implications for stabilization of soil organic matter in the riparian zone. <b>2016</b> , 139, 9-18	30
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1289	Modelling soil organic carbon 2. Changes under a range of cropping and grazing farming systems in eastern Australia. <b>2016</b> , 265, 164-175	15

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1287	Relative availability of inorganic N-pools shifts under land use change: An unexplored variable in soil carbon dynamics. <b>2016</b> , 64, 228-236	38
1286	Effect of pedogenic processes and formation factors on organic matter stabilization in alpine forest soils. <b>2016</b> , 263, 151-160	22
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1284	Changes of soil C stocks and stability after 70-year afforestation in the Northeast USA. <b>2016</b> , 401, 319-329	17
1283	Carbon input from 13C-labelled soybean residues in particulate organic carbon fractions in a Mollisol. <b>2016</b> , 52, 331-339	28
1282	Functional implications of the pH-trait distribution of the microbial community in a re-inoculation experiment across a pH gradient. <b>2016</b> , 93, 69-78	22
1281	Changes in organic carbon concentration and organic matter compound of erosion-delivered soil aggregates. <b>2016</b> , 75, 1	7
1280	Comparison of Three Commercial Carrier Ampholytes for Soil Science Applications in Isoelectric Focusing. <b>2016</b> , 47, 77-86	
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1278	Organic input quality is more important than its quantity: C turnover coefficients in different cropping systems. <b>2016</b> , 77, 138-145	27
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1273	Forest floor chemical transformations in a boreal forest fire and their correlations with temperature and heating duration. <b>2016</b> , 264, 71-80	57
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1266	Altered soil carbon dynamics under different land-use regimes in subtropical seasonally-dry forests of central Argentina. <b>2016</b> , 403, 375-387	18
1265	Climate, soil texture, and soil types affect the contributions of fine-fraction-stabilized carbon to total soil organic carbon in different land uses across China. <b>2016</b> , 172, 2-9	44
1264	Biochar has no effect on soil respiration across Chinese agricultural soils. <b>2016</b> , 554-555, 259-65	51
1263	Influence of hydrological, biogeochemical and temperature transients on subsurface carbon fluxes in a flood plain environment. <b>2016</b> , 127, 367-396	57
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1260	Long-term doubling of litter inputs accelerates soil organic matter degradation and reduces soil carbon stocks. <b>2016</b> , 127, 1-14	57
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1256	Belowground carbon allocation patterns as determined by the in-growth soil core 13C technique across different ecosystem types. <b>2016</b> , 263, 140-150	16
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1254	CQESTR Simulated Changes in Soil Organic Carbon under Residue Management Practices in Continuous Corn Systems. <b>2016</b> , 9, 23-30	12
1253	Redefining the inert organic carbon pool. <b>2016</b> , 92, 149-152	21

1252	Soil Organic Matter. <b>2016</b> , 55-86	4
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1250	The effect of composition on stability ((14)C activity) of soil organic matter fractions from the albic and black soils. <b>2016</b> , 541, 92-100	3
1249	Soil organic matter fractions as affected by tillage and soil texture under semiarid Mediterranean conditions. <b>2016</b> , 155, 381-389	58
1248	Effects of mineral characteristics on content, composition, and stability of organic matter fractions separated from seven forest topsoils of different pedogenesis. <b>2016</b> , 263, 1-7	28
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1246	Greater soil C inputs accelerate loss of C in cropping systems with low N input. <b>2016</b> , 400, 93-105	17
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1243	Carbon Mineralization in Peatlands: Does the Soil Microbial Community Composition Matter?. <b>2016</b> , 33, 151-162	6
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1241	Contrasting temperature responses of dissolved organic carbon and phenols leached from soils. <b>2016</b> , 399, 13-27	14
1240	Soil organic matter amendments in date palm groves of the Middle Eastern and North African region: a mini-review. <b>2016</b> , 8, 77-92	15
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1238	Tree species identity influences the vertical distribution of labile and recalcitrant carbon in a temperate deciduous forest soil. <b>2016</b> , 359, 352-360	25
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1235	Biochar stability in soil: meta-analysis of decomposition and priming effects. <b>2016</b> , 8, 512-523	498

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1233	Carbon cycle perturbation expressed in terrestrial PermianâII riassic boundary sections in South China. <b>2017</b> , 148, 272-285	34
1232	Contrasting dissolved organic matter quality in groundwater in Holocene and Pleistocene aquifers and implications for influencing arsenic mobility. <b>2017</b> , 77, 194-205	57
1231	Nitrogen Dynamics in Two Created Riparian Wetlands over Space and Time. <b>2017</b> , 22,	4
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1229	Below-ground biological responses to pyrogenic organic matter and litter inputs in grasslands. <b>2017</b> , 31, 260-269	10
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1227	Legumes Functional Group Promotes Soil Organic Carbon and Nitrogen Storage by Increasing Plant Diversity. <b>2017</b> , 28, 1336-1344	68
1226	Elevated CO and temperature increase soil C losses from a soybean-maize ecosystem. 2017, 23, 435-445	28
1225	Belowground impacts of perennial grass cultivation for sustainable biofuel feedstock production in the tropics. <b>2017</b> , 9, 694-709	16
1224	Biochemical quality and accumulation of soil organic matter in an age sequence of Cunninghamia lanceolata plantations in southern China. <b>2017</b> , 17, 2218-2229	8
1223	Pollen, phytolith and starch analyses of dryland soils from Easter Island (Rapa Nui) show widespread vegetation clearance and Polynesian-introduced crops. <b>2017</b> , 41, 339-350	20
1222	Differences in soluble organic carbon chemistry in pore waters sampled from different pore size domains. <b>2017</b> , 107, 133-143	72
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1219	Impact of root diversity upon coupling between soil C and N accumulation and bacterial community dynamics and activity: Result of a 30 year rotation experiment. <b>2017</b> , 292, 87-95	19
1218	Interactions of soil particulate organic matter chemistry and microbial community composition mediating carbon mineralization in karst soils. <b>2017</b> , 107, 85-93	27
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1212	Sorption of Alanine changes microbial metabolism in addition to availability. <b>2017</b> , 292, 128-134	11
1211	Priming of soil organic matter: Chemical structure of added compounds is more important than the energy content. <b>2017</b> , 108, 41-54	61
<b>121</b> 0	Applying population and community ecology theory to advance understanding of belowground biogeochemistry. <b>2017</b> , 20, 231-245	54
1209	Erosion of organic carbon from the Andes and its effects on ecosystem carbon dioxide balance. <b>2017</b> , 122, 449-469	21
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1204	Plant, microbial and ecosystem carbon use efficiencies interact to stabilize microbial growth as a fraction of gross primary production. <b>2017</b> , 214, 1518-1526	35
1203	Irrigating-continuous cropping with Bacillus subtilis D9 fortified waste water could control the Fusarium wilt of Artemisia selengens. <b>2017</b> , 113, 127-134	5
1202	A molecular zoom into soil Humeome by a direct sequential chemical fractionation of soil. <b>2017</b> , 586, 807-816	42
1201	Effects of temperature on graphene oxide deposition and transport in saturated porous media. <b>2017</b> , 331, 28-35	37
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1199	The relationships of soil total nitrogen concentrations, pools and C:N ratios with climate, vegetation types and nitrate deposition in temperate and boreal forests of eastern Canada. <b>2017</b> , 152–163-172	47

1198	Soil carbon response to woody plant encroachment: importance of spatial heterogeneity and deep soil storage. <b>2017</b> , 105, 1738-1749	29
1197	Estimating soil carbon dynamics in intercrop and sole crop agroecosystems using the Century model. <b>2017</b> , 180, 241-251	6
1196	Elevated carbon dioxide and temperature alters aggregate specific methane consumption in a tropical vertisol. <b>2017</b> , 155, 1191-1202	1
1195	The whole-soil carbon flux in response to warming. <b>2017</b> , 355, 1420-1423	223
1194	Plant traits, stoichiometry and microbes as drivers of decomposition in the rhizosphere in a temperate grassland. <b>2017</b> , 105, 1750-1765	39
1193	Diversified cropping systems support greater microbial cycling and retention of carbon and nitrogen. <b>2017</b> , 240, 66-76	40
1192	A review of carbon dynamics and assessment methods in the miombo woodlands. <b>2017</b> , 79, 95-102	6
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1186	Long-term stabilization of crop residues and soil organic carbon affected by residue quality and initial soil pH. <b>2017</b> , 587-588, 502-509	32
1185	Al-/Fe-(hydr)oxidesâBrganic carbon associations in Oxisols âlFrom ecosystems to submicron scales. <b>2017</b> , 154, 63-72	23
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1179	Increasing soil carbon storage: mechanisms, effects of agricultural practices and proxies. A review. <b>2017</b> , 37, 1	170
1178	Electrophoretic Separation of Humic Acids Isolated from Tropical Soils Through Modified Denaturing Polyacrylamide Gel Electrophoresis. <b>2017</b> , 6, 179-184	
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1173	Microbial energy and matter transformation in agricultural soils. <b>2017</b> , 111, 176-192	46
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1171	Biopore history determines the microbial community composition in subsoil hotspots. <b>2017</b> , 53, 573-588	32
1170	Spatial controls of topsoil and subsoil organic carbon turnover under C3â©4 vegetation change. <b>2017</b> , 303, 44-51	12
1169	Reconstruction of Historic Forest Cover Changes Indicates Minor Effects on Carbon Stocks in Swiss Forest Soils. <b>2017</b> , 20, 1512-1528	16
1168	Soil carbon loss regulated by drought intensity and available substrate: A meta-analysis. <b>2017</b> , 112, 90-99	63
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1163	Using stable isotopes to explore root-microbe-mineral interactions in soil. <b>2017</b> , 3, 244-253	49

1162	Understanding carbon storage in volcanic soils under selectively logged temperate rainforests. <b>2017</b> , 302, 76-88	23
1161	Thermodynamically controlled preservation of organic carbon in floodplains. <b>2017</b> , 10, 415-419	129
1160	Molecular, isotopic and radiocarbon evidence for broomcorn millet cropping in Northeast France since the Bronze Age. <b>2017</b> , 110, 13-24	6
1159	Review and analysis of strengths and weaknesses of agro-ecosystem models for simulating C and N fluxes. <b>2017</b> , 598, 445-470	106
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1152	Reconciling opposing soil processes in row-crop agroecosystems via soil functional zone management. <b>2017</b> , 236, 99-107	14
1151	Ecosystem Assembly: A Mission for Terrestrial Earth System Science. <b>2017</b> , 20, 69-77	9
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1147	Shrub encroachment by green alder on subalpine pastures: Changes in mineral soil organic carbon characteristics. <b>2017</b> , 157, 35-46	8
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479	Deep-rooted perennial crops differ in capacity to stabilize C inputs in deep soil layers <b>2022</b> , 12, 5952	1

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467	Insight into interactions of polystyrene microplastics with different types and compositions of dissolved organic matter <b>2022</b> , 153883	2
466	Interactive effects of sea-level rise and nitrogen enrichment on the decay of different plant residues in an oligohaline estuarine marsh. <b>2022</b> , 270, 107835	1
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463	Insight into the effect of wastewater-derived dissolved organic matter composition on norgestrel degradation in activated sludge: Coupled bacterial community and molecular characteristics <b>2022</b> , 216, 118255	O
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461	Provenances, preponderances, and distribution of humic acids and organic pollutants in hydro-geosphere: The co-existence, interaction and isotopic biomarkers in the riverine ecosystem <b>2022</b> , 313, 114996	О

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303	Deep ocean microbial communities produce more stable dissolved organic matter through the succession of rare prokaryotes. <b>2022</b> , 8,	Ο
302	Base cation evidence for enhanced water infiltration in Ancestral Pueblo gravel mulch fields, Northern New Mexico, USA.	
301	Understory plant removal counteracts tree thinning effect on soil respiration in a temperate forest.	Ο
300	The role and fate of organic carbon during aging of ferrihydrite. 2022,	2
299	Response of Seasonally Frozen Ground to Climate Changes in the Northeastern Qinghai-Tibet Plateau. 10,	

298	Dynamics of soil aggregate-associated carbon as influenced by simulated tillage and runoff.	0
297	A critical review of mineral-microbe interaction and coevolution: mechanisms and applications.	1
296	Long-term cultivation of Miscanthus and switchgrass accelerates soil organic carbon accumulation by decreasing carbon mineralization in infertile red soil.	0
295	The black carbon cycle and its role in the Earth system.	4
294	Detection of organic carbon in Mars-analog paleosols with thermal and evolved gas analysis.	
293	The role of machine learning on Arabica coffee crop yield based on remote sensing and mineral nutrition monitoring. <b>2022</b> , 221, 81-104	1
292	Climate warming weakens the negative effect of nitrogen addition on the microbial contribution to soil carbon pool in an alpine meadow. <b>2022</b> , 217, 106513	0
291	Factors controlling soil organic carbon with depth at the basin scale. <b>2022</b> , 217, 106478	1
<b>2</b> 90	Severe drought rather than cropping system determines litter decomposition in arable systems. <b>2022</b> , 338, 108078	
289	Conservation tillage facilitated soil carbon sequestration through diversified carbon conversions. <b>2022</b> , 337, 108080	O
288	Conservation with elephants and agricultural intensification: effects on lignin and n-alkanes in soils of sub-Saharan Africa. <b>2022</b> , 425, 116009	
287	Examining the contributions of maize shoots, roots, and manure to stable soil organic carbon pools in tropical smallholder farming soils. <b>2022</b> , 425, 116049	O
286	Thermokarst processes increase the supply of stabilizing surfaces and elements (Fe, Mn, Al, and Ca) for mineralâBrganic carbon interactions.	O
285	Distribution of Molecular Weight of Humic Substances Isolated from Soils of Tallgrass Temperate Rainforests (Chernevaya Taiga). <b>2022</b> , 12, 1760	O
284	Capturing the short-term variability of carbon dioxide emissions from sedimentary rock weathering in a remote mountainous catchment, New Zealand. <b>2022</b> , 121024	O
283	Differential responses of fungal and bacterial necromass accumulation in soil to nitrogen deposition in relation to deposition rate. <b>2022</b> , 157645	
282	Retention of soil organic matter by occlusion within soil minerals. 2022, 21, 727-746	1
281	Vertical SOC distribution and aromatic carbon in centuries old charcoal-rich Technosols. <b>2022</b> , 73,	

280 Soil microbial carbon and activity along with land use and geographic gradients.

279	Effects of transforming multiple ecosystem types to plantations on soil carbon, nitrogen, and phosphorus concentrations at the global scale.	O
278	Stabilisation of soil organic matter: interactions between clay and microbes.	1
277	Responses of soil fauna communities to the individual and combined effects of multiple global change factors.	1
276	Small-Scale Variability of Soil Quality in Permafrost Peatland of the Great Hingâlin Mountains, Northeast China. <b>2022</b> , 14, 2597	O
275	Characterization of Sequentially Extracted Soil Organic Matter by Electrospray Ionization and Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry.	O
274	Coupled of carbon and nitrogen mineralization in rhizosphere soils along a temperate forest altitudinal gradient.	О
273	Soil microbiomes and one health.	2
272	Recarbonizing Global Soils for Sustainable Development.	
271	Organic carbon compounds associated with deep soil carbon stores.	
270	Combined application of chemical fertilizer with green manure increased the stabilization of organic carbon in the organo-mineral complexes of paddy soil.	О
269	Litter removal increases the plant carbon input to soil in a Pinus massoniana plantation.	O
268	Bridging Ecology and Agronomy to Foster Diverse Pastures and Healthy Soils. <b>2022</b> , 12, 1893	1
267	Interactions between polypropylene microplastics (PP-MPs) and humic acid influenced by aging of MPs. <b>2022</b> , 222, 118921	O
266	From plant to soil: Quantitative changes in pine and juniper extractive compounds at different transformation stages.	О
265	Carbon fluxes within tree-crop-grass agroforestry system: 13C field labeling and tracing.	O
264	Impact of deforestation and temporal land-use change on soil organic carbon storage, quality, and lability. <b>2022</b> , 17, e0263205	О
263	Diversified crop rotation improves continuous monocropping eggplant production by altering the soil microbial community and biochemical properties.	O

262 Fungivorous nematodes drive microbial diversity and carbon cycling in soil.

261	Comparison of Sample Preparation Techniques for the (â)ESI-FT-ICR-MS Analysis of Humic and Fulvic Acids.	O
260	Groundwater metabolome responds to recharge in fractured sedimentary strata. <b>2022</b> , 223, 118998	O
259	Nitrogen availability and mineral particles contributed fungal necromass to the newly formed stable carbon pool in the alpine areas of Southwest China. <b>2022</b> , 173, 108788	O
258	Particulate and mineral-associated organic carbon turnover revealed by modelling their long-term dynamics. <b>2022</b> , 173, 108780	
257	Archaeal lipids in soils and sediments: Water impact and consequences for microbial carbon sequestration. <b>2022</b> , 173, 108801	
256	Microbial utilization of simple and complex carbon compounds in a temperate forest soil. <b>2022</b> , 173, 108786	0
255	Microbe-iron interactions control lignin decomposition in soil. <b>2022</b> , 173, 108803	
254	Vertical distribution and influencing factors of deep soil organic carbon in a typical subtropical agricultural watershed. <b>2022</b> , 339, 108141	O
253	Fertilizer quality and labile soil organic matter fractions are vital for organic carbon sequestration in temperate arable soils within a long-term trial in Switzerland. <b>2022</b> , 426, 116080	1
252	Links between chemical composition of soil organic matter and soil enzyme activity in alpine grassland ecosystems of the Tibetan Plateau. <b>2022</b> , 218, 106565	O
251	Plant endophytes and arbuscular mycorrhizal fungi alter the decomposition of Achnatherum sibiricum litter. <b>2022</b> , 180, 104616	1
250	Bringing soil chemistry to environmental health science to tackle soil contaminants. 10,	О
249	Recent developments in modification of biochar and its application in soil pollution control and ecoregulation. <b>2022</b> , 313, 120184	O
248	Sedimentary organic carbon and nitrogen stocks of intertidal seagrass meadows in a dynamic and impacted wetland: Effects of coastal infrastructure constructions and meadow establishment time. <b>2022</b> , 322, 115841	1
247	Long-term manure applications to increase carbon sequestration and macroaggregate-stabilized carbon. <b>2022</b> , 174, 108827	2
246	Effects of decadal nitrogen addition on carbon and nitrogen stocks in different organic matter fractions of typical steppe soils. <b>2022</b> , 144, 109471	О
245	Those who can don't want to, and those who want to can't: An eco-evolutionary mechanism of soil carbon persistence. <b>2022</b> , 174, 108813	O

244	Direct and indirect greenhouse gas emissions under conventional, organic, and conservation agriculture. <b>2022</b> , 340, 108148	О
243	Potential utilization of vitamin C industrial effluents in agriculture: Soil fertility and bacterial community composition. <b>2022</b> , 851, 158253	O
242	Elevational pattern of soil organic carbon release in a Tibetan alpine grassland: Consequence of quality but not quantity of initial soil organic carbon. <b>2022</b> , 428, 116148	1
241	Long-term alfalfa (Medicago sativa L.) establishment could alleviate phosphorus limitation induced by nitrogen deposition in the carbonate soil. <b>2022</b> , 324, 116346	O
240	Self-template mechanism of åBelective silicon dissolutionålfor the construction of functional rice husk biochar. <b>2022</b> , 238, 107511	0
239	Interactions between organic matter and Fe oxides at soil micro-interfaces: Quantification, associations, and influencing factors. <b>2023</b> , 855, 158710	1
238	Effect of biochar application rate on changes in soil labile organic carbon fractions and the association between bacterial community assembly and carbon metabolism with time. <b>2023</b> , 855, 158876	О
237	Contributions of Climate and Soil Properties to Geographic Variations of Soil Organic Matter Across the East Asian Monsoon Region.	O
236	Genome-Resolved Metagenomics Informs the Functional Ecology of Uncultured Acidobacteria in Redox Oscillated Sphagnum Peat.	0
235	Effects of litter input on the balance of new and old soil organic carbon under natural forests along a climatic gradient in China. <b>2022</b> , 160, 409-421	O
234	Temperature Sensitivity of Soil Respiration in Two Temperate Forest Ecosystems: The Synthesis of a 24-Year Continuous Observation. <b>2022</b> , 13, 1374	0
233	Assessing the carbonisation temperatures recorded by ancient charcoals for [13C-based palaeoclimate reconstruction. 2022, 12,	O
232	Advances in Molecular and Microscale Characterization of Soil Organic Matter: Current Limitations and Future Prospects. <b>2022</b> , 56, 12793-12810	1
231	Microbiome structure and interconnection in soil aggregates across conservation and conventional agricultural practices allow to identify main prokaryotic and fungal taxa related to soil functioning. <b>2022</b> , 108833	1
230	Advancing the science and practice of ecological nutrient management for smallholder farmers. 6,	1
229	Gypsum, crop rotation, and cover crop impacts on soil organic carbon and biological dynamics in rainfed transitional no-till corn-soybean systems. <b>2022</b> , 17, e0275198	O
228	Soil organic carbon stock responded more sensitively to degradation in alpine meadows than in alpine steppes on the Qinghai-Tibetan Plateau.	О
227	Vertical pattern of organic matter decomposability in cryoturbated permafrost-affected soils. <b>2022</b> , 17, 104023	O

226	Microbial necromass response to soil warming: A meta-analysis. 2,	O
225	Fe-Bound Organic Carbon and Sorption of Aromatic Dissolved Organic Carbon in Surface Soil: Comparing a Forest, a Cropland, and a Pasture Soil in the Central Appalachian Region, West Virginia, U.S.A. <b>2022</b> , 9, 113	0
224	Clarifying the evidence for microbial- and plant-derived soil organic matter, and the path toward a more quantitative understanding.	2
223	5300-year-old soil carbon is less primed than young soil organic matter.	O
222	Polypropylene microplastics affect the distribution and bioavailability of cadmium by changing soil components during soil aging. <b>2022</b> , 130079	O
221	Modelling long-term yield and soil organic matter dynamics in a maize cropping system.	1
220	Bamboo-based agroforestry changes phytoremediation efficiency by affecting soil properties in rhizosphere and non-rhizosphere in heavy metal-polluted soil (Cd/Zn/Cu).	0
219	A continental scale analysis reveals widespread root bimodality.	О
218	Microspectroscopic visualization of how biochar lifts the soil organic carbon ceiling. 2022, 13,	O
217	The pyrolytical fingerprint of nitrogen compounds reflects the content and quality of soil organic carbon. <b>2022</b> , 116187	O
216	Soil mineral fraction influences the bacterial abundance: evidence from a mineral and plant materials incubation study.	O
215	Plant litter chemistry controls coarse-textured soil carbon dynamics.	O
214	Soil organic carbon sequestration following a secondary succession of agricultural abandonment in the karst region of southwest China. <b>2022</b> , 81,	0
213	A Novel 4-Set Venn Diagram Model Based on High-Resolution Mass Spectrometry To Monitor Wastewater Treatment.	O
212	Grasslands enhance ecosystem service multifunctionality above and below ground in agricultural landscapes.	1
211	Seasonal behaviour of carbon mineralisation kinetics, microbial biomass carbon and enzyme activities in three natural ecosystems of Kaziranga National Park, Assam, North East India.	O
<b>2</b> 10	Instance-based transfer learning for soil organic carbon estimation. 10,	0
209	Fluvisols Contribution to Water Retention Hydrological Ecosystem Services in Different Floodplain Ecosystems. <b>2022</b> , 11, 1510	O

208	Continuous and Nested Time in Historical Ecology: Application to Soil Studies. 2022, 99-109	O
207	Precipitation-derived effects on the characteristics of proteinaceous soil organic matter across the continental United States. 2,	О
206	Root exudates contribute to belowground ecosystem hotspots: A review. 13,	1
205	The climate benefit of sequestration in soils for warming mitigation.	O
204	Ecosystem productivity has a stronger influence than soil age on surface soil carbon storage across global biomes. <b>2022</b> , 3,	О
203	Large macroaggregate disintegration contributes to cPOM transfer and carbon loss in forest soil under rainfall simulation.	O
202	Long-term fertilizer postponing promotes soil organic carbon sequestration in paddy soils by accelerating lignin degradation and increasing microbial necromass. <b>2022</b> , 108839	О
201	The crucial interactions between climate and soil. <b>2022</b> , 159169	O
200	Forest gaps accelerate the degradation of cellulose and lignin in decaying logs in a subalpine forest.	О
199	Biodegradation of dissolved organic matter and sedimentary organic matter in high arsenic groundwater system: Evidence from lipid biomarkers and compound-specific carbon isotopes. <b>2022</b> , 612, 121140	O
198	NTFP and Homegarden vis-^-vis Land Degradation Neutrality: Sustainable Livelihood and Development. <b>2022</b> , 419-436	0
197	Carbon Sequestration Acts as a Moderator for Soil Restoration of Degraded Coal Mined Lands: An Overview. <b>2022</b> , 315-332	О
196	Lipid Biomarkers as a Tool for the Identification of Herder Activities in El Mirador Cave. 2022, 251-270	О
195	Climate change challenges, plant science solutions.	Ο
194	The grassland carbon cycle: mechanisms, responses to global changes, and potential contribution to carbon neutrality. <b>2022</b> ,	0
193	Iron-bound organic carbon dynamics in peatland profiles: the preservation equivalence of deep and surface soil. <b>2022</b> ,	O
192	Long-term manure application enhances organic carbon and nitrogen stocks in Mollisol subsoil.	1
191	Improving pedotransfer functions for predicting soil mineral associated organic carbon by ensemble machine learning. <b>2022</b> , 116208	1

190	Modeling nitrous oxide emissions from agricultural soil incubation experiments using CoupModel. <b>2022</b> , 19, 4811-4832	O
189	Faster accumulation and greater contribution of glomalin to the soil organic carbon pool than amino sugars do under tropical coastal forest restoration.	1
188	Comprehensive Assessment of Seasonally Frozen Ground Changes in the Northern Hemisphere Based on Observations. <b>2022</b> , 127,	O
187	Soil carbon storage is related to tree functional composition in naturally regenerating tropical forests.	0
186	Italian Ryegrass, Perennial Ryegrass, and Meadow Fescue as Undersown Cover Crops in Spring Wheat and Barley: Results from a Mixed Methods Study in Norway. <b>2022</b> , 14, 13055	O
185	A field incubation approach to evaluate the depth dependence of soil biogeochemical responses to climate change.	O
184	A Comparative Study of the Humic Substances and Organic Matter in Physical Fractions of Haplic Chernozem under Contrasting Land Uses. <b>2022</b> , 55, 1371-1383	0
183	Divergent effects of moderate grazing duration on carbon sequestration between temperate and alpine grasslands in China. <b>2022</b> , 159621	O
182	Depolymerization of lignin by extracellular activity of Pycnoporus cinnabarinus, to obtain cellulose. <b>2022</b> ,	0
181	Microbial autotrophy explains large-scale soil CO 2 fixation.	O
181 180	Microbial autotrophy explains large-scale soil CO 2 fixation.  Exploring the Impacts of Data Source, Model Types and Spatial Scales on the Soil Organic Carbon Prediction: A Case Study in the Red Soil Hilly Region of Southern China. 2022, 14, 5151	0
	Exploring the Impacts of Data Source, Model Types and Spatial Scales on the Soil Organic Carbon	
180	Exploring the Impacts of Data Source, Model Types and Spatial Scales on the Soil Organic Carbon Prediction: A Case Study in the Red Soil Hilly Region of Southern China. <b>2022</b> , 14, 5151  Effects of application of horticultural soil amendments on decomposition, quantity, stabilisation	0
180 179	Exploring the Impacts of Data Source, Model Types and Spatial Scales on the Soil Organic Carbon Prediction: A Case Study in the Red Soil Hilly Region of Southern China. <b>2022</b> , 14, 5151  Effects of application of horticultural soil amendments on decomposition, quantity, stabilisation and quality of soil carbon. <b>2022</b> , 12,  Short-term but not long-term perennial mugwort cropping increases soil organic carbon in	0
180 179 178	Exploring the Impacts of Data Source, Model Types and Spatial Scales on the Soil Organic Carbon Prediction: A Case Study in the Red Soil Hilly Region of Southern China. 2022, 14, 5151  Effects of application of horticultural soil amendments on decomposition, quantity, stabilisation and quality of soil carbon. 2022, 12,  Short-term but not long-term perennial mugwort cropping increases soil organic carbon in Northern China Plain. 13,  Plant types shape soil microbial composition, diversity, function, and co-occurrence patterns in the	0 0
180 179 178	Exploring the Impacts of Data Source, Model Types and Spatial Scales on the Soil Organic Carbon Prediction: A Case Study in the Red Soil Hilly Region of Southern China. 2022, 14, 5151  Effects of application of horticultural soil amendments on decomposition, quantity, stabilisation and quality of soil carbon. 2022, 12,  Short-term but not long-term perennial mugwort cropping increases soil organic carbon in Northern China Plain. 13,  Plant types shape soil microbial composition, diversity, function, and co-occurrence patterns in the cultivated land of a karst area.  Contrasting Export of Particulate Organic Carbon From Greenlandic Glacial and Nonglacial Streams.	0 0
180 179 178 177	Exploring the Impacts of Data Source, Model Types and Spatial Scales on the Soil Organic Carbon Prediction: A Case Study in the Red Soil Hilly Region of Southern China. 2022, 14, 5151  Effects of application of horticultural soil amendments on decomposition, quantity, stabilisation and quality of soil carbon. 2022, 12,  Short-term but not long-term perennial mugwort cropping increases soil organic carbon in Northern China Plain. 13,  Plant types shape soil microbial composition, diversity, function, and co-occurrence patterns in the cultivated land of a karst area.  Contrasting Export of Particulate Organic Carbon From Greenlandic Glacial and Nonglacial Streams. 2022, 49,  Minerals: A missing role for enhanced biochar carbon sequestration from the thermal conversion of	<ul><li>O</li><li>O</li><li>O</li><li>O</li><li>O</li></ul>

172	Nano and sub-nano scale distribution of organic carbon species on soil particles revealed by Cs-STEM EELS. <b>2022</b> , 613, 121168	О
171	Phosphorus species in sequentially extracted soil organic matter fractions. <b>2023</b> , 429, 116227	O
170	Humic acid and phosphorus fractions transformation regulated by carbon-based materials in composting steered its potential for phosphorus mobilization in soil. <b>2023</b> , 325, 116553	1
169	Soil microbial communities vary in composition and functional strategy across soil aggregate size class regardless of tillage. <b>2022</b> , 10,	O
168	Sensing technologies for characterizing and monitoring soil functions: A review. 2022,	1
167	Import and release of nutrients during the first five years of plant litter decomposition. 2023, 176, 108878	2
166	Native soil labile organic matter influences soil priming effects. <b>2023</b> , 182, 104732	0
165	Effect of grazing exclusion on emission of greenhouse gases and soil organic carbon turnover in alpine shrub meadow. <b>2023</b> , 858, 159758	O
164	Straw return alleviates the negative effects of saline sodic stress on rice by improving soil chemistry and reducing the accumulation of sodium ions in rice leaves. <b>2023</b> , 342, 108253	0
163	Fungal necromass increases soil aggregation and organic matter chemical stability under improved cropland management and natural restoration. <b>2023</b> , 858, 159953	O
162	How Much Organic Carbon Could Be Stored in Rainfed Olive Grove Soil? A Case Study in Mediterranean Areas. <b>2022</b> , 14, 14609	O
161	Holes in the tundra: Invasive earthworms alter soil structure and moisture in tundra soils. <b>2022</b> , 160125	Ο
160	Progress on the Effect of Nitrogen on Transformation of Soil Organic Carbon. <b>2022</b> , 10, 2425	0
159	Molecular Signature of Soil Organic Matter under Different Land Uses in the Lake Chaohu Basin. <b>2022</b> ,	1
158	Dry-wet seasonal variations of microbially-mediated carbon metabolism in soils of a floodplain lake.	O
157	Simulating long-term responses of soil organic matter turnover to substrate stoichiometry by abstracting fast and small-scale microbial processes: the Soil Enzyme Steady Allocation Model (SESAM; v3.0). <b>2022</b> , 15, 8377-8393	O
156	Spatio-Temporal Variation and Its Driving Forces of Soil Organic Carbon along an Urbanâ <b>R</b> ural Gradient: A Case Study of Beijing. <b>2022</b> , 19, 15201	1
155	Species shifts induce soil organic matter priming and changes in microbial communities. <b>2023</b> , 859, 159956	1

154	The involvement of organic acids in soil fertility, plant health and environment sustainability. <b>2022</b> , 204,	О
153	Wildfire impacts on surface water quality parameters: Cause of data variability and reporting needs. <b>2023</b> , 317, 120713	1
152	Long-term warming reduces surface soil organic carbon by reducing mineral-associated carbon rather than âfreeâlparticulate carbon. <b>2023</b> , 177, 108905	0
151	Variations in soil aggregate stability and organic carbon stability of alpine meadow and shrubland under long-term warming. <b>2023</b> , 222, 106848	O
150	Amorphous iron oxides protect aggregate-associated organic carbon from microbial utilization and decomposition evidenced from the natural abundance of 13C. <b>2023</b> , 227, 105623	О
149	Cropland carbon stocks driven by soil characteristics, rainfall and elevation. <b>2023</b> , 862, 160602	O
148	Natural marsh-pasture/sugarcane field transitions greatly reduced lignin-derived pyrolysis products of soil organic matter. <b>2023</b> , 329, 117019	0
147	Crop rotational diversity alters the composition of stabilized soil organic matter compounds in soil physical fractions.	O
146	Native multispecies and fast-growing forest root biomass increase C and N stocks in a reclaimed bauxite mining area. <b>2023</b> , 195,	0
145	Linking soil aggregation to organic matter chemistry in a Calcic Cambisol: evidence from a 33-year field experiment.	O
144	Energy cover crops for biogas production increase soil organic carbon stocks: A modeling approach.	O
143	Interactions between soil organic matter chemical structure and microbial communities determine the spatial variation of soil basal respiration in boreal forests. <b>2022</b> , 104743	1
142	Grazing and ecosystem service delivery in global drylands. <b>2022</b> , 378, 915-920	5
141	Degradation properties of fulvic acid and its microbially driven mechanism from a partial nitritation bioreactor through multi-spectral and bioinformatic analysis. <b>2022</b> ,	O
140	Universal microbial reworking of dissolved organic matter along environmental gradients.	О
139	The carbon-quality temperature hypothesis: Fact or artefact?.	O
138	Differences in soil organic matter between EcM - and AM -dominated forests depend on tree and fungal identity.	O
137	The effect of mineral composition on soil organic matter turnover in temperate forest soils.	O

136	Rice Rhizosphere Metagenome in Association with Application of Biochar under Continuous Exposure to Elevated Carbon Dioxide.	O
135	Microbial Community Investigation of Wild Brambles with Root Nodulation from a Calcareous Nitrogen-Deficient Soil. <b>2022</b> , 6, 96	O
134	Long-Term Effects of Organic Amendments on Carbon Stability in ClayâDrganic Complex and Its Role in Soil Aggregation. <b>2023</b> , 13, 39	1
133	Aggregate-associated carbon contributes to soil organic carbon accumulation along the elevation gradient of Helan Mountains. <b>2022</b> , 108926	O
132	Integration of root architecture, root nitrogen metabolism, and photosynthesis of âllanfuâlapple trees under the cross-talk between glucose and IAA. 2022,	0
131	Greenhouse gas fluxes in mangrove forest soil in an Amazon estuary. <b>2022</b> , 19, 5483-5497	O
130	Empirically-based production environment soil health goals.	0
129	Regularities in the Development of Soil Biological Activity and Winter Wheat Productivity under Ecologised Fertiliser Systems. <b>2022</b> , 25,	O
128	Assessing the impact of grazing management on wind erosion risk in grasslands: A case study on how grazing affects aboveground biomass and soil particle composition in Inner Mongolia. <b>2022</b> , 40, e02344	0
127	Global perspectives for biochar application in the remediation of heavy metal-contaminated soil: a bibliometric analysis over the past three decades. 1-15	O
126	Edaphic controls of soil organic carbon in tropical agricultural landscapes. <b>2022</b> , 12,	O
125	Effects of Arbuscular Mycorrhizal Fungi and Biochar on Growth, Nutrient Absorption, and Physiological Properties of Maize (Zea mays L.). <b>2022</b> , 8, 1275	5
124	Bioenergetic control of soil carbon dynamics across depth. <b>2022</b> , 13,	1
123	Linking plant lignin components or microbial necromass to soil organic carbon accumulation across different forest types.	O
122	Effect and mechanism of the improvement of coastal silt soil by application of organic fertilizer and gravel combined with Sesbania cannabina cultivation. 13,	0
121	Influence of Clay Mineralogy on Soil Organic Carbon Stabilization under Tropical Climate, India.	O
120	Redox oscillations destabilize and mobilize colloidal soil organic carbon. <b>2022</b> , 161153	0
119	Spatial Differentiation of the Coupling Characteristics of Soil Carbon and Nitrogen on Mulberry Plantations in China. <b>2022</b> , 14,	O

118	Degradation pathways for organic matter of terrestrial origin are widespread and expressed in Arctic Ocean microbiomes. <b>2022</b> , 10,	О
117	One thousand soils for molecular understanding of belowground carbon cycling.	O
116	Nanoscale Interactions of Humic Acid and Minerals Reveal Mechanisms of Carbon Protection in Soil.	0
115	Large-diameter trees and deadwood correspond with belowground ectomycorrhizal fungal richness. <b>2023</b> , 12,	O
114	Measurement and modelling of organic matterâl altering effect on dielectric behavior of soil in the region of 200 MHz to 14 GHz. 1-25	0
113	Soil Microbial Biochemical Activity and Influence of Climate Change. 2023, 137-155	O
112	Oxygen priming induced by elevated CO2 reduces carbon accumulation and methane emissions in coastal wetlands. <b>2023</b> , 16, 63-68	1
111	Soil carbon prediction under different land uses by integration of remote sensing and machine learning algorithms in a semi-arid watershed, Iran. <b>2023</b> , 16,	O
110	The direct and legacy effects of drying-rewetting cycles on active and relatively resistant soil carbon decomposition.	0
109	Role of biochar toward carbon neutrality. <b>2023</b> , 2,	O
109	Role of biochar toward carbon neutrality. 2023, 2,  Biochemical composition of soil organic matter physical fractions under 32-year fertilization in Ferralic Cambisol. 2023, 2,	0
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108	Biochemical composition of soil organic matter physical fractions under 32-year fertilization in Ferralic Cambisol. <b>2023</b> , 2,  Characteristic of Molecular Weight-Fractions of Soil Organic Matter from Calcareous Soil and	O
108	Biochemical composition of soil organic matter physical fractions under 32-year fertilization in Ferralic Cambisol. 2023, 2,  Characteristic of Molecular Weight-Fractions of Soil Organic Matter from Calcareous Soil and Yellow Soil. 2023, 15, 1537  Using the end-member mixing model to evaluate biogeochemical reactivities of dissolved organic	0
108 107 106	Biochemical composition of soil organic matter physical fractions under 32-year fertilization in Ferralic Cambisol. 2023, 2,  Characteristic of Molecular Weight-Fractions of Soil Organic Matter from Calcareous Soil and Yellow Soil. 2023, 15, 1537  Using the end-member mixing model to evaluate biogeochemical reactivities of dissolved organic matter (DOM): autochthonous versus allochthonous origins. 2023, 119644  Topographically Distinguished Microbiome Taxonomy and Stress-Response Genes of Royal Belum	0 0
108 107 106	Biochemical composition of soil organic matter physical fractions under 32-year fertilization in Ferralic Cambisol. 2023, 2,  Characteristic of Molecular Weight-Fractions of Soil Organic Matter from Calcareous Soil and Yellow Soil. 2023, 15, 1537  Using the end-member mixing model to evaluate biogeochemical reactivities of dissolved organic matter (DOM): autochthonous versus allochthonous origins. 2023, 119644  Topographically Distinguished Microbiome Taxonomy and Stress-Response Genes of Royal Belum Rainforest and Raja Muda Musa Peat Swamp Revealed through Metagenomic Inquisition. 2023, 24, 872  An integrated solar-induced chlorophyll fluorescence model for more accurate soil organic carbon	0 0
108 107 106 105	Biochemical composition of soil organic matter physical fractions under 32-year fertilization in Ferralic Cambisol. 2023, 2,  Characteristic of Molecular Weight-Fractions of Soil Organic Matter from Calcareous Soil and Yellow Soil. 2023, 15, 1537  Using the end-member mixing model to evaluate biogeochemical reactivities of dissolved organic matter (DOM): autochthonous versus allochthonous origins. 2023, 119644  Topographically Distinguished Microbiome Taxonomy and Stress-Response Genes of Royal Belum Rainforest and Raja Muda Musa Peat Swamp Revealed through Metagenomic Inquisition. 2023, 24, 872  An integrated solar-induced chlorophyll fluorescence model for more accurate soil organic carbon content estimation in an Alpine agricultural area.  Soil depth as a driver of microbial and carbon dynamics in a planted forest (Pinus radiata) pumice	0 0 0

100	Interactions and Regulatory Functions of Phenolics in Soil-Plant-Climate Nexus. 2023, 13, 280	1
99	Soil N:P Ratio and Its Regulation Factors in Alpine Wetlands Across the Three Rivers Source Region.	О
98	Quantifying mineral-associated organic matter in wetlands as an indicator of the degree of soil carbon protection. <b>2023</b> , 430, 116327	0
97	Priming effect on soil carbon decomposition by root exudate surrogates: A meta-analysis. <b>2023</b> , 178, 108955	O
96	Environmental and pedological factors influencing organic carbon storage in Italian forest soils. <b>2023</b> , 32, e00605	O
95	Modeling ecosystem-scale carbon dynamics in soil: The microbial dimension. <b>2023</b> , 178, 108948	Ο
94	Depth-dependent response of particulate and mineral-associated organic carbon to long-term throughfall reduction in a subtropical natural forest. <b>2023</b> , 223, 106904	O
93	The inverted forest: Aboveground and notably large belowground carbon stocks and their drivers in Brazilian savannas. <b>2023</b> , 867, 161320	O
92	Abiotic and biotic drivers of tree trait effects on soil microbial biomass and soil carbon concentration.	0
91	The Soil Environment of Abandoned Charcoal Kiln Platforms in a Low-Altitude Central European Forest. <b>2023</b> , 14, 29	O
90	Bibliometric Analysis of the Permafrost Research: Developments, Impacts, and Trends. 2023, 15, 234	0
89	Topsoil Carbon Stocks in Urban Greenspaces of The Hague, the Netherlands.	O
88	Effects of organic amendments and cover crops on soil characteristics and potato yields. <b>2023</b> , 73, 13-26	O
87	Organic Matter Continuum in a Compost System: Life and Death in a Compost Microbiome Decide Whether Compost Is Essential. <b>2023</b> , 71, 1769-1770	O
86	Using Landfill Leachate to Indicate the Chemical and Biochemical Activities in Elevated Temperature Landfills.	O
85	Composted biosolids amendments for enhanced soil organic carbon and water storage in perennial pastures in Colorado. <b>2023</b> , 347, 108401	O
84	Dynamics of SOC density and driving factors during the restoration of artificial grassland and abandoned farmland in Mu Us Desert, China. <b>2023</b> , 224, 106991	O
83	Organic carbon in soilsâlfine fraction: thresholds in saturation capacity and its relationship with carbon stabilization.	O

82	Rhizosphere Mycobiome: Roles, Diversity, and Dynamics. <b>2023</b> , 47-61	O
81	Humic Substances: From Supramolecular Aggregation to Fractal Conformationâls There Time for a New Paradigm?. <b>2023</b> , 13, 2236	O
80	Use of untargeted metabolomics to analyse changes in extractable soil organic matter in response to long-term fertilisation. <b>2023</b> , 59, 301-316	О
79	Rapid loss of complex polymers and pyrogenic carbon in subsoils under whole-soil warming. <b>2023</b> , 16, 344-348	О
78	Remote sensing of soil degradation: Progress and perspective. 2023,	О
77	Functionalized cross-linking mechanism of biochar âldsorption-reaction microunitâlon the promotion of new ammonia-based CO2 capture. <b>2023</b> , 123865	О
76	One thousand soils for molecular understanding of belowground carbon cycling. 3,	О
75	A simple but effective evaluation criterion for parameters optimization of EPO and its application to moisture insensitive prediction of soil organic matter. <b>2023</b> , 236, 104794	O
74	Effect of pre-treatment processes of organic residues on soil aggregates. <b>2023</b> , 30, 103104	О
73	Molecular diversity and the fate of biochemical fractions of eucalypt tissues in soil. <b>2023</b> , 432, 116404	О
72	Greater regulation of permafrost organic matter composition by enzymes and redox than temperature. <b>2023</b> , 180, 108991	О
71	Revealing the potential of organo-mineral complexes in agricultural application using bibliometrics. <b>2023</b> , 401, 136728	O
70	Increasing tree productivity does not translate into greater soil organic carbon storage. <b>2023</b> , 535, 120884	О
69	Earthworms and long-term straw management practices interactively affect soil carbon and nitrogen forms across soil depths. <b>2023</b> , 116, 103478	O
68	Residence time of carbon in paddy soils. <b>2023</b> , 400, 136707	О
67	Shrub encroachment increases soil carbon and nitrogen stocks in alpine grassland ecosystems of the central Tibetan Plateau. <b>2023</b> , 433, 116468	O
66	Post-farming land restoration schemes exhibit higher soil aggregate stability and organic carbon: Evidence in the Three Gorges Reservoir Area, China. <b>2023</b> , 227, 107099	0
65	Nitrogen deposition induces a greater soil C sequestration in the rhizosphere than bulk soil in an alpine forest. <b>2023</b> , 875, 162701	O

64	Stable oxic-anoxic transitional interface is beneficial to retard soil carbon loss in drained peatland. <b>2023</b> , 181, 109024	0
63	Soil organic carbon pool distribution and stability with grazing and topography in a Mongolian grassland. <b>2023</b> , 348, 108431	O
62	Countrywide mapping and assessment of organic carbon saturation in the topsoil using machine learning-based pedotransfer function with uncertainty propagation. <b>2023</b> , 227, 107086	0
61	High intensity fire accelerates accumulation of a stable carbon pool in permafrost peatlands under climate warming. <b>2023</b> , 227, 107108	O
60	Depth-dependent effects of tree species identity on soil microbial community characteristics and multifunctionality. <b>2023</b> , 878, 162972	0
59	Necromass-derived soil organic carbon and its drivers at the global scale. <b>2023</b> , 181, 109025	О
58	Structure turnover times of grassland soils under different moisture regimes. <b>2023</b> , 433, 116464	О
57	Differences in available phosphorus in temperate and subtropical forest soils. <b>2023</b> , 187, 104849	О
56	Soil microbial necromass: The state-of-the-art, knowledge gaps, and future perspectives. <b>2023</b> , 115, 103472	О
55	Species of fast bulk-soil nutrient cycling have lower rhizosphere effects: A nutrient spectrum of rhizosphere effects. <b>2023</b> , 104,	O
54	Potential disintegration and transport of biochar in the soil-water environment: A case study towards purple soil. <b>2023</b> , 222, 115383	О
53	Groundwater Plays an Important Role in Controlling Riverine Dissolved Organic Matter in a Cold Alpine Catchment, the Qinghaiâllibet Plateau. <b>2023</b> , 59,	О
52	Experimental drought increased the belowground sink strength towards higher topsoil organic carbon stocks in a temperate mature forest. <b>2023</b> , 431, 116356	О
51	Patterns and determinants of plant-derived lignin phenols in coastal wetlands: Implications for organic C accumulation. <b>2023</b> , 37, 1067-1081	O
50	Current controversies on mechanisms controlling soil carbon storage: implications for interactions with practitioners and policy-makers. A review. <b>2023</b> , 43,	О
49	Microbial necromass in cropland soils: A global meta-analysis of management effects. <b>2023</b> , 29, 1998-2014	О
48	Extracted samples and in situ soil investigations to assess the effects of different land use and tillage management practices on soil organic matter composition.	О
47	Understanding the impact of main cell wall polysaccharides on the decomposition of ectomycorrhizal fungal necromass. <b>2023</b> , 74,	О

46	The lower labile carbon of surface soils in Chinese semiarid areas. 2023, 73, 34-41	O
45	Predicting Fine Root Decomposition from Functional Traits in 10 Temperate Tree Species. <b>2023</b> , 14, 372	O
44	Growing soil organic carbon in dryland agricultural systems. <b>2023</b> , 44, 18-21	О
43	Potential ecological impacts of physical control on Spartina alterniflora in coastal wetland: Migration and transformation of nutrients and the response of bacterial community structure. <b>2023</b> , 398, 136556	O
42	Recently fixed carbon fuels microbial activity several meters below the soil surface. 2023, 20, 827-838	O
41	Changes of Soil Dissolved Organic Matter and Its Relationship with Microbial Community along the Hailuogou Glacier Forefield Chronosequence. <b>2023</b> , 57, 4027-4038	O
40	Effects of soil and rock microhabitats on soil organic carbon stability in a karst peak-cluster depression region of Southwestern China. <b>2023</b> , 32, e00623	O
39	Chronic Warming and Nitrogen-Addition Alter Soil Organic Matter Molecular Composition Distinctly in Tandem Compared to Individual Stressors. <b>2023</b> , 7, 609-622	O
38	Consistent physiological, ecological and evolutionary effects of fire regime on conservative leaf economics strategies in plant communities. <b>2023</b> , 26, 597-608	O
37	Evenness of soil organic carbon chemical components changes with tree species richness, composition and functional diversity across forests in China. <b>2023</b> , 29, 2852-2864	O
36	Microbial keystone taxa drive succession of plant residue chemistry. 2023, 17, 748-757	O
35	Total organic carbon, aluminium and iron in bulk samples and aggregate size fractions of a sandy clay loam humic soil under sugarcane relative to native forest in northern KwaZulu-Natal, South Africa. <b>2023</b> , 9, e14000	O
34	Amendments of waste ochre from former coal mines can potentially be used to increase soil carbon persistence. <b>2023</b> , 151, 105618	О
33	Effects of returning corn straw incorporated with fungi, and fermented corn straw on soil humic acid structural characteristics. <b>2023</b> , 23, 2048-2064	O
32	Spatial heterogeneity and compositional profiles of dissolved organic matter in farmland soils across mainland China. <b>2024</b> , 137, 593-603	О
31	Interpreting ramped combustion thermograms using 13C NMR spectroscopy to characterize soil organic matter composition. <b>2023</b> , 432, 116415	O
30	The influence of inherent soil factors and agricultural management on soil organic matter. <b>2023</b> , 14,	1
29	Trade-offs in carbon-degrading enzyme activities limit long-term soil carbon sequestration with biochar addition.	O

28	Root functional traits determine the magnitude of the rhizosphere priming effect among eight tree species.	O
27	Molecular 14 C evidence for contrasting turnover and temperature sensitivity of soil organic matter components. <b>2023</b> , 26, 778-788	O
26	Masked diversity and contrasting soil processes in tropical seagrass meadows: the control of environmental settings. <b>2023</b> , 9, 189-208	О
25	Habitat complexity affects microbial growth in fractal maze. 2023,	O
24	Integrating terrestrial and aquatic ecosystems to constrain estimates of land-atmosphere carbon exchange. <b>2023</b> , 14,	O
23	Comparison of Soil Carbon and Nitrogen Stocks in Gareh-Bygone Plain of Fasa in Fields with and without Flood Spreading. <b>2021</b> , 12, 170-181	O
22	Heavy Metal Pollution of Soil in Vienna, Austria. <b>2023</b> , 234,	О
21	Modeling organic carbon bound in clay and silt particles in highly weathered lateritic soils of the Central Highlands of Vietnam.	O
20	Restricted power: Can microorganisms maintain soil organic matter stability under warming exceeding 2 degrees?.	О
19	Applying the core-satellite species concept: Characteristics of rare and common riverine dissolved organic matter. 5,	O
18	Spatial variation and relationship between soil dissolved organic matter and bacterial community in urban greenspaces. <b>2023</b> , 2,	О
17	Subsoil carbon loss. <b>2023</b> , 16, 284-285	O
16	Formulae Differences Commence a Database for Interlaboratory Studies of Natural Organic Matter. <b>2023</b> , 57, 6238-6247	O
15	An Introduction to Environmental Soil Chemistry. <b>2024</b> , 1-38	O
14	Perspectives of the Fritz-Scheffer Awardee 2021: Profile- to ecosystem-scale perspectives on soil organic matter formation as demonstrated by woody debris in forest dynamics.	0
13	Different contributing processes in bacterial vs. fungal necromass affect soil carbon fractions during the plant residues transformation.	O
12	The Structural Quality of Soil Organic Matter under Selected Soil Fertility Management Practices in the Central Highlands of Kenya. <b>2023</b> , 15, 6500	O
11	Stabilization of mineral-associated organic carbon in Pleistocene permafrost. 2023, 14,	О

10	Diversified crop rotations and organic amendments as strategies for increasing soil carbon storage and stabilisation in UK arable systems. 11,	O
9	Mineral-microbial interactions in nine-year organic fertilization field experiment: a mechanism for carbon storage in saline-alkaline paddy soil.	O
8	Carbon farming in paddy soil to increase soil C and soil health as an implementation of soil carbon 4 per mille. <b>2023</b> , 1165, 012023	0
7	Soil organic carbon sequestration in agricultural long-term field experiments as derived from particulate and mineral-associated organic matter. <b>2023</b> , 434, 116472	0
6	Mapping soil organic carbon fractions for Australia, their stocks, and uncertainty. 2023, 20, 1559-1586	O
5	Dramatic Carbon Loss in a Permafrost Thaw Slump in the Tibetan Plateau is Dominated by the Loss of Microbial Necromass Carbon.	O
4	Carbon management and sequestration for sustainable agriculture and environment. 2023, 145-159	0
3	Toward the tree-based ecosystems for carbon sequestration. <b>2023</b> , 129-162	O
2	Changes in soil microbial biomass and organic C pools improve the sustainability of perennial grass and legume system under organic nutrient management. 14,	0
1	Associations of soil Fe oxides and organic carbon vary in different aggregate fractions under warming.	О