## Yakov Kuzyakov

# List of Publications by Year in Descending Order

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

33,678 82 160 633 h-index g-index citations papers 8.18 698 5.9 42,153 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
633	The effect of fertilizer type on nitrogen uptake by maize from recently formed soil organic matter #. Journal of Plant Nutrition and Soil Science, 2022, 185, 168-176	2.3	
632	From energy to (soil organic) matter Global Change Biology, 2022,	11.4	7
631	Priming effects in soils across Europe Global Change Biology, 2022,	11.4	4
630	Catalytic efficiency of soil enzymes explains temperature sensitivity: Insights from physiological theory <i>Science of the Total Environment</i> , <b>2022</b> , 822, 153365	10.2	1
629	Sources and intensity of CH4 production in paddy soils depend on iron oxides and microbial biomass. <i>Biology and Fertility of Soils</i> , <b>2022</b> , 58, 181-191	6.1	О
628	Soil pore architecture and rhizosphere legacy define N2O production in root detritusphere. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 166, 108565	7.5	0
627	Network analysis reveals bacterial and fungal keystone taxa involved in straw and soil organic matter mineralization. <i>Applied Soil Ecology</i> , <b>2022</b> , 173, 104395	5	О
626	Rhizosphere bacteriome structure and functions <i>Nature Communications</i> , <b>2022</b> , 13, 836	17.4	11
625	Diversified cropping systems benefit soil carbon and nitrogen stocks by increasing aggregate stability: Results of three fractionation methods <i>Science of the Total Environment</i> , <b>2022</b> , 153878	10.2	4
624	Fertilization effects on soil microbial composition and nutrient availability in integrated rice-livestock production systems. <i>Applied Soil Ecology</i> , <b>2022</b> , 174, 104420	5	0
623	Plant species and plant neighbor identity affect associations between plant assimilated C inputs and soil pores. <i>Geoderma</i> , <b>2022</b> , 407, 115565	6.7	О
622	Paddy soils have a much higher microbial biomass content than upland soils: A review of the origin, mechanisms, and drivers. <i>Agriculture, Ecosystems and Environment</i> , <b>2022</b> , 326, 107798	5.7	7
621	Management extensification in oil palm plantations reduces SOC decomposition. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 165, 108535	7.5	О
620	Depth effects on bacterial community assembly processes in paddy soils. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 165, 108517	7.5	2
619	Investigation of the effects of the conversion of forests and rangeland to cropland on fertility and soil functions in mountainous semi-arid landscape. <i>Catena</i> , <b>2022</b> , 210, 105951	5.8	О
618	Synergy of saprotrophs with mycorrhiza for litter decomposition and hotspot formation depends on nutrient availability in the rhizosphere. <i>Geoderma</i> , <b>2022</b> , 410, 115662	6.7	3
617	Plant and soil elemental C:N:P ratios are linked to soil microbial diversity during grassland restoration on the Loess Plateau, China. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 150557	10.2	1

616	Glycoproteins of arbuscular mycorrhiza for soil carbon sequestration: Review of mechanisms and controls. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 150571	10.2	8
615	A novel belowground in-situ gas labeling approach: CH oxidation in deep peat using passive diffusion chambers and C excess. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 150457	10.2	
614	Root exudate chemistry affects soil carbon mobilization via microbial community reassembly. <i>Fundamental Research</i> , <b>2022</b> ,		3
613	C:P stoichiometric imbalance between soil and microorganisms drives microbial phosphorus turnover in the rhizosphere. <i>Biology and Fertility of Soils</i> , <b>2022</b> , 58, 421-433	6.1	0
612	Initial soil formation by biocrusts: Nitrogen demand and clay protection control microbial necromass accrual and recycling. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 167, 108607	7.5	2
611	Can the reductive dissolution of ferric iron in paddy soils compensate phosphorus limitation of rice plants and microorganisms?. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 168, 108653	7.5	1
610	Precipitation balances deterministic and stochastic processes of bacterial community assembly in grassland soils. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 168, 108635	7.5	0
609	Vulnerability and driving factors of soil inorganic carbon stocks in Chinese croplands <i>Science of the Total Environment</i> , <b>2022</b> , 154087	10.2	3
608	Nitrite-dependent anaerobic oxidation decreases methane emissions from peatlands. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 169, 108658	7.5	Ο
607	Nutrients in the rhizosphere: A meta-analysis of content, availability, and influencing factors <i>Science of the Total Environment</i> , <b>2022</b> , 153908	10.2	2
606	Microbial growth rates, carbon use efficiency and enzyme activities during post-agricultural soil restoration. <i>Catena</i> , <b>2022</b> , 214, 106226	5.8	О
605	Fungal key players of cellulose utilization: Microbial networks in aggregates of long-term fertilized soils disentangled using C-DNA-stable isotope probing <i>Science of the Total Environment</i> , <b>2022</b> , 832, 15	5 <b>6</b> 87	0
604	High frequency of extreme precipitation increases Stipa grandis biomass by altering plant and microbial nitrogen acquisition. <i>Biology and Fertility of Soils</i> , <b>2022</b> , 58, 63-75	6.1	0
603	Stoichiometric regulation of priming effects and soil carbon balance by microbial life strategies. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 169, 108669	7.5	O
602	Effects of plastic film mulch biodegradability on nitrogen in the plant-soil system <i>Science of the Total Environment</i> , <b>2022</b> , 833, 155220	10.2	2
601	Phosphorus addition decreases plant lignin but increases microbial necromass contribution to soil organic carbon in a subalpine forest <i>Global Change Biology</i> , <b>2022</b> ,	11.4	1
600	Microbial iron reduction compensates for phosphorus limitation in paddy soils <i>Science of the Total Environment</i> , <b>2022</b> , 837, 155810	10.2	0
599	Increasing contribution of microbial residues to soil organic carbon in grassland restoration chronosequence. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 170, 108688	7.5	1

598	Microbial functional changes mark irreversible course of Tibetan grassland degradation <i>Nature Communications</i> , <b>2022</b> , 13, 2681	17.4	0
597	Deep-C storage: Biological, chemical and physical strategies to enhance carbon stocks in agricultural subsoils. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 108697	7.5	1
596	Maize root exudate composition alters rhizosphere bacterial community to control hotspots of hydrolase activity in response to nitrogen supply. <i>Soil Biology and Biochemistry</i> , <b>2022</b> , 170, 108717	7.5	O
595	Moderate grazing increases newly assimilated carbon allocation belowground. Rhizosphere, 2022, 1005	<b>43</b> .5	1
594	Microbial community mediates hydroxyl radical production in soil slurries by iron redox transformation. <i>Water Research</i> , <b>2022</b> , 220, 118689	12.5	O
593	Soil health evaluation approaches along a reclamation consequence in Hangzhou Bay, China. <i>Agriculture, Ecosystems and Environment</i> , <b>2022</b> , 337, 108045	5.7	1
592	Microbial Communities and Functions in the Rhizosphere of Disease-Resistant and Susceptible spp. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 732905	5.7	Ο
591	Molybdenum Bioavailability and Asymbiotic Nitrogen Fixation in Soils are Raised by Iron (Oxyhydr)oxide-Mediated Free Radical Production. <i>Environmental Science &amp; Environmental Science &amp; Environmenta</i>	10.3	6
590	Biological Crusts to Increase Soil Carbon Sequestration: New Challenges in a New Environment. <i>Biology</i> , <b>2021</b> , 10,	4.9	3
589	Three source-partitioning of CO fluxes based on a dual-isotope approach to investigate interactions between soil organic carbon, glucose and straw. <i>Science of the Total Environment</i> , <b>2021</b> , 811, 152163	10.2	1
588	Increased soil organic matter after 28 years of nitrogen fertilization only with plastic film mulching is controlled by maize root biomass <i>Science of the Total Environment</i> , <b>2021</b> , 810, 152244	10.2	4
587	In-situ 13CO2 labeling to trace carbon fluxes in plant-soil-microorganism systems: Review and methodological guideline. <i>Rhizosphere</i> , <b>2021</b> , 20, 100441	3.5	2
586	Contrasting pathways of carbon sequestration in paddy and upland soils. <i>Global Change Biology</i> , <b>2021</b> , 27, 2478-2490	11.4	27
585	Fenton chemistry and reactive oxygen species in soil: Abiotic mechanisms of biotic processes, controls and consequences for carbon and nutrient cycling. <i>Earth-Science Reviews</i> , <b>2021</b> , 214, 103525	10.2	36
584	Drought effects on soil carbon and nitrogen dynamics in global natural ecosystems. <i>Earth-Science Reviews</i> , <b>2021</b> , 214, 103501	10.2	24
583	Rhizosphere microbiome modulated effects of biochar on ryegrass 15N uptake and rhizodeposited 13C allocation in soil. <i>Plant and Soil</i> , <b>2021</b> , 463, 359-377	4.2	4
582	Fertilization effects on microbial community composition and aggregate formation in saline-alkaline soil. <i>Plant and Soil</i> , <b>2021</b> , 463, 523-535	4.2	8
581	Temperature sensitivity of SOM decomposition is linked with a K-selected microbial community. <i>Global Change Biology</i> , <b>2021</b> , 27, 2763-2779	11.4	15

#### (2021-2021)

580	T4-like Phages Reveal the Potential Role of Viruses in Soil Organic Matter Mineralization. <i>Environmental Science &amp; Environmental Science &amp; Environmen</i>	10.3	3
579	Accumulation of organic compounds in paddy soils after biochar application is controlled by iron hydroxides. <i>Science of the Total Environment</i> , <b>2021</b> , 764, 144300	10.2	7
578	Mitigation of carbon dioxide by accelerated sequestration from long-term biochar amended paddy soil. <i>Soil and Tillage Research</i> , <b>2021</b> , 209, 104955	6.5	5
577	Substrate control of sulphur utilisation and microbial stoichiometry in soil: Results of C, N, C, and S quad labelling. <i>ISME Journal</i> , <b>2021</b> , 15, 3148-3158	11.9	7
576	Lower microbial carbon use efficiency reduces cellulose-derived carbon retention in soils amended with compost versus mineral fertilizers. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 156, 108227	7.5	5
575	Active metabolic pathways of anaerobic methane oxidation in paddy soils. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 156, 108215	7.5	7
574	Soil organic matter formation is controlled by the chemistry and bioavailability of organic carbon inputs across different land uses. <i>Science of the Total Environment</i> , <b>2021</b> , 770, 145307	10.2	8
573	Bacterial communities drive the resistance of soil multifunctionality to land-use change in karst soils. <i>European Journal of Soil Biology</i> , <b>2021</b> , 104, 103313	2.9	4
572	Stoichiometry of carbon, nitrogen, and phosphorus in soil: Effects of agricultural land use and climate at a continental scale. <i>Soil and Tillage Research</i> , <b>2021</b> , 209, 104903	6.5	21
571	Post-agricultural restoration of soil organic carbon pools across a climate gradient. <i>Catena</i> , <b>2021</b> , 200, 105138	5.8	O
570	In and In Precipitation and Water Vapor Disentangle Seasonal Wind Directions on the Loess Plateau. <i>Sustainability</i> , <b>2021</b> , 13, 6938	3.6	1
569	Root-o-Mat: A novel tool for 2D image processing of root-soil interactions and its application in soil zymography. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 157, 108236	7.5	3
568	Aboveground and Belowground Plant Traits Explain Latitudinal Patterns in Topsoil Fungal Communities From Tropical to Cold Temperate Forests. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 633751	5.7	2
567	Time-lapse approach to correct deficiencies of 2D soil zymography. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 157, 108225	7.5	6
566	Nitrogen fixation and crop productivity enhancements co-driven by intercrop root exudates and key rhizosphere bacteria. <i>Journal of Applied Ecology</i> , <b>2021</b> , 58, 2243	5.8	8
565	Interkingdom plant-microbial ecological networks under selective and clear cutting of tropical rainforest. <i>Forest Ecology and Management</i> , <b>2021</b> , 491, 119182	3.9	2
564	Pore-scale view of microbial turnover: Combining 14C imaging, IT and zymography after adding soluble carbon to soil pores of specific sizes. <i>European Journal of Soil Science</i> , <b>2021</b> , 72, 593-607	3.4	13
563	Contribution of the Fenton reaction and ligninolytic enzymes to soil organic matter mineralisation under anoxic conditions. <i>Science of the Total Environment</i> , <b>2021</b> , 760, 143397	10.2	6

562	Nitrogen rhizodeposition by legumes and its fate in agroecosystems: A field study and literature review. <i>Land Degradation and Development</i> , <b>2021</b> , 32, 410-419	4.4	15
561	Soil organic matter turnover depending on land use change: Coupling C/N ratios, 🛮 3C, and lignin biomarkers. Land Degradation and Development, 2021, 32, 1591-1605	4.4	7
560	Increase of soil nitrogen availability and recycling with stand age of Chinese-fir plantations. <i>Forest Ecology and Management</i> , <b>2021</b> , 480, 118643	3.9	8
559	Effects of rotational and continuous overgrazing on newly assimilated C allocation. <i>Biology and Fertility of Soils</i> , <b>2021</b> , 57, 193-202	6.1	5
558	Riparian wetland properties counter the effect of land-use change on soil carbon stocks after rainforest conversion to plantations. <i>Catena</i> , <b>2021</b> , 196, 104941	5.8	5
557	Letter-to-the-Editor: Does acidification really increase soil carbon in croplands? How statistical analyses of large datasets might mislead the conclusions. <i>Geoderma</i> , <b>2021</b> , 384, 114806	6.7	9
556	From rock eating to vegetarian ecosystems Disentangling processes of phosphorus acquisition across biomes. <i>Geoderma</i> , <b>2021</b> , 388, 114827	6.7	8
555	Plant intraspecific competition and growth stage alter carbon and nitrogen mineralization in the rhizosphere. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 1231-1242	8.4	3
554	Soil carbonates: The unaccounted, irrecoverable carbon source. <i>Geoderma</i> , <b>2021</b> , 384, 114817	6.7	16
553	Strong priming of soil organic matter induced by frequent input of labile carbon. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 152, 108069	7.5	14
552	Iron-reducing bacteria decompose lignin by electron transfer from soil organic matter. <i>Science of the Total Environment</i> , <b>2021</b> , 761, 143194	10.2	7
551	Temperature sensitivity (Q) of stable, primed and easily available organic matter pools during decomposition in paddy soil. <i>Applied Soil Ecology</i> , <b>2021</b> , 157, 103752	5	9
550	Tight coupling of fungal community composition with soil quality in a Chinese fir plantation chronosequence. <i>Land Degradation and Development</i> , <b>2021</b> , 32, 1164-1178	4.4	10
549	Divergent mineralization of hydrophilic and hydrophobic organic substrates and their priming effect in soils depending on their preferential utilization by bacteria and fungi. <i>Biology and Fertility of Soils</i> , <b>2021</b> , 57, 65-76	6.1	12
548	Assessing and mapping urban soils as geochemical barriers for contamination by heavy metal(loid)s in Moscow megapolis. <i>Journal of Environmental Quality</i> , <b>2021</b> , 50, 22-37	3.4	10
547	Microbial metabolic response to winter warming stabilizes soil carbon. <i>Global Change Biology</i> , <b>2021</b> , 27, 2011-2028	11.4	12
546	Soil properties and root traits jointly shape fine-scale spatial patterns of bacterial community and metabolic functions within a Korean pine forest. <i>PeerJ</i> , <b>2021</b> , 9, e10902	3.1	1
545	Tussock microhabitats increase nitrogen uptake by plants in an alpine wetland. <i>Plant and Soil</i> , <b>2021</b> , 466, 569-580	4.2	Ο

#### (2021-2021)

544	Metagenomic insights into soil microbial communities involved in carbon cycling along an elevation climosequences. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 4631-4645	5.2	2
543	Diurnal dynamics can modify plantinicrobial competition for N uptake via C allocation. <i>Biology and Fertility of Soils</i> , <b>2021</b> , 57, 949-958	6.1	1
542	Higher free-living N2 fixation at rock-soil interfaces than topsoils during vegetation recovery in karst soils. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 159, 108286	7.5	3
54 <sup>1</sup>	Forest conversion to plantations: A meta-analysis of consequences for soil and microbial properties and functions. <i>Global Change Biology</i> , <b>2021</b> , 27, 5643-5656	11.4	6
540	Belowground interplant carbon transfer promotes soil carbon gains in diverse plant communities. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 159, 108297	7.5	1
539	Rice paddy soils are a quantitatively important carbon store according to a global synthesis. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	11
538	How biochar works, and when it doesn't: A review of mechanisms controlling soil and plant responses to biochar. <i>GCB Bioenergy</i> , <b>2021</b> , 13, 1731	5.6	38
537	Plant carbon investment in fine roots and arbuscular mycorrhizal fungi: A cross-biome study on nutrient acquisition strategies. <i>Science of the Total Environment</i> , <b>2021</b> , 781, 146748	10.2	5
536	Transformations of N derived from straw under long-term conventional and no-tillage soils: A 15N labelling study. <i>Science of the Total Environment</i> , <b>2021</b> , 786, 147428	10.2	6
535	Species richness is more important for ecosystem functioning than species turnover along an elevational gradient. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 1582-1593	12.3	2
534	Comparing carbon and nitrogen stocks in paddy and upland soils: Accumulation, stabilization mechanisms, and environmental drivers. <i>Geoderma</i> , <b>2021</b> , 398, 115121	6.7	24
533	Shrubs magnify soil phosphorus depletion in Tibetan meadows: Conclusions from C:N:P stoichiometry and deep soil profiles. <i>Science of the Total Environment</i> , <b>2021</b> , 785, 147320	10.2	2
532	Inorganic carbon losses by soil acidification jeopardize global efforts on carbon sequestration and climate change mitigation. <i>Journal of Cleaner Production</i> , <b>2021</b> , 315, 128036	10.3	21
531	Microbial tradeoffs in internal and external use of resources regulated by phosphorus and carbon availability. <i>European Journal of Soil Biology</i> , <b>2021</b> , 106, 103353	2.9	2
530	Organic matter chemistry and bacterial community structure regulate decomposition processes in post-fire forest soils. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 160, 108311	7.5	6
529	Rice rhizodeposition promotes the build-up of organic carbon in soil via fungal necromass. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 160, 108345	7.5	9
528	The flux of root-derived carbon via fungi and bacteria into soil microarthropods (Collembola) differs markedly between cropping systems. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 160, 108336	7.5	4
527	Resistance of microbial community and its functional sensitivity in the rhizosphere hotspots to drought. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 161, 108360	7.5	4

526	Long-term warming and elevated CO2 increase ammonia-oxidizing microbial communities and accelerate nitrification in paddy soil. <i>Applied Soil Ecology</i> , <b>2021</b> , 166, 104063	5	5
525	Arbuscular mycorrhizal fungi and goethite promote carbon sequestration via hyphal-aggregate mineral interactions. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 162, 108417	7.5	4
524	Phosphatase activity and acidification in lupine and maize rhizosphere depend on phosphorus availability and root properties: Coupling zymography with planar optodes. <i>Applied Soil Ecology</i> , <b>2021</b> , 167, 104029	5	10
523	Microbial necromass as the source of soil organic carbon in global ecosystems. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 162, 108422	7.5	26
522	Maize genotype-specific exudation strategies: An adaptive mechanism to increase microbial activity in the rhizosphere. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 162, 108426	7.5	5
521	Microorganisms maintain C:N stoichiometric balance by regulating the priming effect in long-term fertilized soils. <i>Applied Soil Ecology</i> , <b>2021</b> , 167, 104033	5	11
520	Root and mycorrhizal strategies for nutrient acquisition in forests under nitrogen deposition: A meta-analysis. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 163, 108418	7·5	4
519	Belowground allocation and fate of tree assimilates in plantBoilthicroorganisms system: 13C labeling and tracing under field conditions. <i>Geoderma</i> , <b>2021</b> , 404, 115296	6.7	O
518	Regulation of soil phosphorus availability and composition during forest succession in subtropics. <i>Forest Ecology and Management</i> , <b>2021</b> , 502, 119706	3.9	0
517	Spartina alterniflora invasion controls organic carbon stocks in coastal marsh and mangrove soils across tropics and subtropics. <i>Global Change Biology</i> , <b>2021</b> , 27, 1627-1644	11.4	7
516	Stimulation of ammonia oxidizer and denitrifier abundances by nitrogen loading: Poor predictability for increased soil N O emission <i>Global Change Biology</i> , <b>2021</b> ,	11.4	4
515	Rusty sink of rhizodeposits and associated keystone microbiomes. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 147, 107840	7.5	37
514	Differentiating microbial taxonomic and functional responses to physical disturbance in bulk and rhizosphere soils. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 2858-2871	4.4	3
513	Secondary soil salinization in urban lawns: Microbial functioning, vegetation state, and implications for carbon balance. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 2591-2604	4.4	9
512	Effects of drying/rewetting on soil aggregate dynamics and implications for organic matter turnover. <i>Biology and Fertility of Soils</i> , <b>2020</b> , 56, 893-905	6.1	9
511	Meta-analysis of heavy metal effects on soil enzyme activities. <i>Science of the Total Environment</i> , <b>2020</b> , 737, 139744	10.2	47
510	Rhizosphere hotspots: Root hairs and warming control microbial efficiency, carbon utilization and energy production. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107872	7·5	25
509	Combined biochar and nitrogen application stimulates enzyme activity and root plasticity. <i>Science of the Total Environment</i> , <b>2020</b> , 735, 139393	10.2	30

#### (2020-2020)

508	An iron-dependent burst of hydroxyl radicals stimulates straw decomposition and CO2 emission from soil hotspots: Consequences of Fenton or Fenton-like reactions. <i>Geoderma</i> , <b>2020</b> , 375, 114512	6.7	18	
507	Preferential uptake of hydrophilic and hydrophobic compounds by bacteria and fungi in upland and paddy soils. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107879	7.5	9	
506	Soil quality indices for metal(loid) contamination: An enzymatic perspective. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 2700-2719	4.4	18	
505	Soil phosphorus accumulation changes with decreasing temperature along a 2300 m altitude gradient. <i>Agriculture, Ecosystems and Environment</i> , <b>2020</b> , 301, 107050	5.7	3	
504	Dramatic loss of inorganic carbon by nitrogen-induced soil acidification in Chinese croplands. <i>Global Change Biology</i> , <b>2020</b> , 26, 3738-3751	11.4	77	
503	Compositional variations of active autotrophic bacteria in paddy soils with elevated CO2 and temperature. <i>Soil Ecology Letters</i> , <b>2020</b> , 2, 295-307	2.7	3	
502	Soil carbon balance by priming differs with single versus repeated addition of glucose and soil fertility level. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107913	7.5	8	
501	Nutrient addition reduces carbon sequestration in a Tibetan grassland soil: Disentangling microbial and physical controls. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 144, 107764	7.5	37	
500	Effects of land use and elevation on the functional characteristics of soil enzymes at Mt. Kilimanjaro. <i>European Journal of Soil Biology</i> , <b>2020</b> , 97, 103167	2.9	9	
499	Microbial carbon use efficiency, biomass turnover, and necromass accumulation in paddy soil depending on fertilization. <i>Agriculture, Ecosystems and Environment</i> , <b>2020</b> , 292, 106816	5.7	31	
498	Carbon and nitrogen recycling from microbial necromass to cope with C:N stoichiometric imbalance by priming. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 142, 107720	7.5	75	
497	15N-tracer approach to assess nitrogen cycling processes: Nitrate reduction, anammox and denitrification in different pH cropland soils. <i>Catena</i> , <b>2020</b> , 193, 104611	5.8	7	
496	The effect of microorganisms on soil carbonate recrystallization and abiotic CO2 uptake of soil. <i>Catena</i> , <b>2020</b> , 192, 104592	5.8	6	
495	DNA Stable-Isotope Probing Delineates Carbon Flows from Rice Residues into Soil Microbial Communities Depending on Fertilization. <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,	4.8	16	
494	Contrasting patterns and drivers of soil bacterial and fungal diversity across a mountain gradient. <i>Environmental Microbiology</i> , <b>2020</b> , 22, 3287-3301	5.2	33	
493	Reply to: "Variables in the effect of land use on soil extrapore enzymatic activity and carbon stabilization" by Glenn (2020). <i>Nature Communications</i> , <b>2020</b> , 11, 6427	17.4	1	
492	New approaches for evaluation of soil health, sensitivity and resistance to degradation. <i>Frontiers of Agricultural Science and Engineering</i> , <b>2020</b> , 7, 282	1.7	6	
491	Precipitation Partitioning Hydrologic Highways Between Microbial Communities of the Plant Microbiome? Open image in new window <b>2020</b> , 229-252		2	

490	Accelerated microbial activity, turnover and efficiency in the drilosphere is depth dependent. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 147, 107852	7.5	8
489	Temperature sensitivity of decomposition of soil organic matter fractions increases with their turnover time. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 632-645	4.4	15
488	Divergence in fungal abundance and community structure between soils under long-term mineral and organic fertilization. <i>Soil and Tillage Research</i> , <b>2020</b> , 196, 104491	6.5	15
487	In situ methods of plant-microbial interactions for nitrogen in rhizosphere. <i>Rhizosphere</i> , <b>2020</b> , 13, 1001	<b>86</b> .5	12
486	Organic carbon burial and sources in soils of coastal mudflat and mangrove ecosystems. <i>Catena</i> , <b>2020</b> , 187, 104414	5.8	58
485	C:N stoichiometry of stable and labile organic compounds determine priming patterns. <i>Geoderma</i> , <b>2020</b> , 362, 114122	6.7	8
484	Temperature sensitivity of soil organic matter mineralization decreases with long-term N fertilization: Evidence from four Q10 estimation approaches. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 683-693	4.4	16
483	Conversion of coastal marshes to croplands decreases organic carbon but increases inorganic carbon in saline soils. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 1099-1109	4.4	8
482	Responses of C-, N- and P-acquiring hydrolases to P and N fertilizers in a subtropical Chinese fir plantation depend on soil depth. <i>Applied Soil Ecology</i> , <b>2020</b> , 150, 103465	5	5
481	Persistence of soil microbial function at the rock-soil interface in degraded karst topsoils. <i>Land Degradation and Development</i> , <b>2020</b> , 31, 251-265	4.4	9
480	Anaerobic oxidation of methane in paddy soil: Role of electron acceptors and fertilization in mitigating CH4 fluxes. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 141, 107685	7.5	31
479	How Botlare hotspots: Statistically localizing the high-activity areas on soil and rhizosphere images. <i>Rhizosphere</i> , <b>2020</b> , 16, 100259	3.5	9
478	Corrigendum to Accelerated microbial activity, turnover and efficiency in the drilosphere is depth dependent[Soil Biology & Biochemistry 147 (2020) 107852]. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107910	7.5	
477	The persistence of bacterial diversity and ecosystem multifunctionality along a disturbance intensity gradient in karst soil. <i>Science of the Total Environment</i> , <b>2020</b> , 748, 142381	10.2	10
476	Impact of manure on soil biochemical properties: A global synthesis. <i>Science of the Total Environment</i> , <b>2020</b> , 745, 141003	10.2	33
475	Organic matter stabilization in aggregates and density fractions in paddy soil depending on long-term fertilization: Tracing of pathways by 13C natural abundance. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 149, 107931	7.5	19
474	Synergy effect of peroxidase enzymes and Fenton reactions greatly increase the anaerobic oxidation of soil organic matter. <i>Scientific Reports</i> , <b>2020</b> , 10, 11289	4.9	9
473	Waterlogging increases organic carbon decomposition in grassland soils. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107927	7.5	2

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472	Direct evidence for thickening nanoscale organic films at soil biogeochemical interfaces and its relevance to organic matter preservation. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2747-2758	7.1	6
471	Conversion of cropland to natural vegetation boosts microbial and enzyme activities in soil. <i>Science of the Total Environment</i> , <b>2020</b> , 743, 140829	10.2	5
470	Soil organic matter, nitrogen and pH driven change in bacterial community following forest conversion. <i>Forest Ecology and Management</i> , <b>2020</b> , 477, 118473	3.9	15
469	Decreased rhizodeposition, but increased microbial carbon stabilization with soil depth down to 3.6 m. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 150, 108008	7.5	14
468	Long-term active restoration of extremely degraded alpine grassland accelerated turnover and increased stability of soil carbon. <i>Global Change Biology</i> , <b>2020</b> , 26, 7217-7228	11.4	8
467	Soil-plant co-stimulation during forest vegetation restoration in a subtropical area of southern China. <i>Forest Ecosystems</i> , <b>2020</b> , 7,	3.8	6
466	Effects of six-year biochar amendment on soil aggregation, crop growth, and nitrogen and phosphorus use efficiencies in a rice-wheat rotation. <i>Journal of Cleaner Production</i> , <b>2020</b> , 242, 118435	10.3	96
465	Soil Phosphorus Bioavailability and Recycling Increased with Stand Age in Chinese Fir Plantations. <i>Ecosystems</i> , <b>2020</b> , 23, 973-988	3.9	19
464	Biochar effects on crop yields and nitrogen loss depending on fertilization. <i>Science of the Total Environment</i> , <b>2020</b> , 702, 134423	10.2	20
463	Arbuscular mycorrhiza enhances rhizodeposition and reduces the rhizosphere priming effect on the decomposition of soil organic matter. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 140, 107641	7.5	56
462	Facts to acidification-induced carbonate losses from Chinese croplands. <i>Global Change Biology</i> , <b>2020</b> , 27, e7	11.4	2
461	Straw and biochar strongly affect functional diversity of microbial metabolism in paddy soils. Journal of Integrative Agriculture, <b>2019</b> , 18, 1474-1485	3.2	16
460	Microbial C:N:P stoichiometry and turnover depend on nutrients availability in soil: A 14C, 15N and 33P triple labelling study. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 131, 206-216	7.5	51
459	C/P stoichiometry of dying rice root defines the spatial distribution and dynamics of enzyme activities in root-detritusphere. <i>Biology and Fertility of Soils</i> , <b>2019</b> , 55, 251-263	6.1	44
458	Nitrogen-inputs regulate microbial functional and genetic resistance and resilience to drying Elewetting cycles, with implications for crop yields. <i>Plant and Soil</i> , <b>2019</b> , 441, 301-315	4.2	4
457	Labile organic matter intensifies phosphorous mobilization in paddy soils by microbial iron (III) reduction. <i>Geoderma</i> , <b>2019</b> , 352, 185-196	6.7	19
456	Recovery of organic matter and microbial biomass after abandonment of degraded agricultural soils: the influence of climate. <i>Land Degradation and Development</i> , <b>2019</b> , 30, 1861-1874	4.4	20
455	Post-agricultural restoration: Implications for dynamics of soil organic matter pools. <i>Catena</i> , <b>2019</b> , 181, 104096	5.8	18

454	Coupling zymography with pH mapping reveals a shift in lupine phosphorus acquisition strategy driven by cluster roots. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 135, 420-428	7.5	15
453	Spatial patterns of extracellular enzymes: Combining X-ray computed micro-tomography and 2D zymography. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 135, 411-419	7.5	24
452	Integrating Aquatic and Terrestrial Perspectives to Improve Insights Into Organic Matter Cycling at the Landscape Scale. <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	12
451	Soil organic matter priming and carbon balance after straw addition is regulated by long-term fertilization. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 135, 383-391	7.5	35
450	Transpiration on the rebound in lowland Sumatra. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 274, 160-7	1 <b>751</b> 8	17
449	Ashes to ashes: Characterization of organic matter in Andosols along a 3400 m elevation transect at Mount Kilimanjaro using analytical pyrolysis. <i>Catena</i> , <b>2019</b> , 180, 271-281	5.8	1
448	Contrasting patterns and drivers of soil fungal communities in subtropical deciduous and evergreen broadleaved forests. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 5421-5433	5.7	12
447	Rhizosphere size and shape: Temporal dynamics and spatial stationarity. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 135, 343-360	7.5	163
446	Functional Soil Organic Matter Fractions, Microbial Community, and Enzyme Activities in a Mollisol Under 35 Years Manure and Mineral Fertilization. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2019</b> , 19, 430-439	3.2	18
445	Labile carbon matters more than temperature for enzyme activity in paddy soil. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 135, 134-143	7.5	36
444	Impacts of green manure amendment on detritus micro-food web in a double-rice cropping system. <i>Applied Soil Ecology</i> , <b>2019</b> , 138, 32-36	5	12
443	Manure over crop residues increases soil organic matter but decreases microbial necromass relative contribution in upland Ultisols: Results of a 27-year field experiment. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 134, 15-24	7.5	42
442	Dominant extracellular enzymes in priming of SOM decomposition depend on temperature. <i>Geoderma</i> , <b>2019</b> , 343, 187-195	6.7	12
441	Effects of peat decomposition on 🛘 3C and 🛈 5N depth profiles of Alpine bogs. <i>Catena</i> , <b>2019</b> , 178, 1-10	5.8	21
440	Carbon input and allocation by rice into paddy soils: A review. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 133, 97-107	7.5	56
439	Climate-land-use interactions shape tropical mountain biodiversity and ecosystem functions. <i>Nature</i> , <b>2019</b> , 568, 88-92	50.4	173
438	Extreme-duration drought impacts on soil CO2 efflux are regulated by plant species composition. <i>Plant and Soil</i> , <b>2019</b> , 439, 357-372	4.2	7
437	Structural and physiological adaptations of soil microorganisms to freezing revealed by position-specific labeling and compound-specific 13C analysis. <i>Biogeochemistry</i> , <b>2019</b> , 143, 207-219	3.8	5

436	To shake or not to shake: 13C-based evidence on anaerobic methane oxidation in paddy soil. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 133, 146-154	7.5	15
435	Priming alters soil carbon dynamics during forest succession. <i>Biology and Fertility of Soils</i> , <b>2019</b> , 55, 339-	-3550	10
434	Effect of nitrogen fertilizer on rice photosynthate allocation and carbon input in paddy soil. <i>European Journal of Soil Science</i> , <b>2019</b> , 70, 786	3.4	8
433	Long-term manure application increases soil organic matter and aggregation, and alters microbial community structure and keystone taxa. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 134, 187-196	7.5	137
432	Regulation of soil phosphorus cycling in grasslands by shrubs. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 133, 1-11	7.5	26
431	Allocation of assimilated carbon in paddies depending on rice age, chase period and N fertilization: Experiment with 13CO2 labelling and literature synthesis. <i>Plant and Soil</i> , <b>2019</b> , 445, 113-123	4.2	22
430	When the Mediterranean becomes harsh: Heat pulses strongly affect C allocation in plant-soil-atmosphere continuum in Eucalyptus camaldulensis. <i>Environmental and Experimental Botany</i> , <b>2019</b> , 162, 181-191	5.9	4
429	Understory ferns alter soil carbon chemistry and increase carbon storage during reforestation with native pine on previously degraded sites. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 132, 80-92	7.5	10
428	Intensified Precipitation Seasonality Reduces Soil Inorganic N Content in a Subtropical Forest: Greater Contribution of Leaching Loss Than N2O Emissions. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 494-508	3.7	10
427	The Kobresia pygmaea ecosystem of the Tibetan highlands - Origin, functioning and degradation of the world's largest pastoral alpine ecosystem: Kobresia pastures of Tibet. <i>Science of the Total Environment</i> , <b>2019</b> , 648, 754-771	10.2	104
426	Mechanisms of carbon sequestration and stabilization by restoration of arable soils after abandonment: A chronosequence study on Phaeozems and Chernozems. <i>Geoderma</i> , <b>2019</b> , 354, 113882	6.7	25
425	Impact of sea level change on coastal soil organic matter, priming effects and prokaryotic community assembly. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	8
424	Drivers of soil carbon stabilization in oil palm plantations. <i>Land Degradation and Development</i> , <b>2019</b> , 30, 1904-1915	4.4	11
423	Microbial spatial footprint as a driver of soil carbon stabilization. <i>Nature Communications</i> , <b>2019</b> , 10, 312	117.4	58
422	MgO-modified biochar increases phosphate retention and rice yields in saline-alkaline soil. <i>Journal of Cleaner Production</i> , <b>2019</b> , 235, 901-909	10.3	87
421	Bacterial community succession in paddy soil depending on rice fertilization. <i>Applied Soil Ecology</i> , <b>2019</b> , 144, 92-97	5	19
420	Saving the face of soil aggregates. <i>Global Change Biology</i> , <b>2019</b> , 25, 3574-3577	11.4	27
419	Inventory of Spatio-Temporal Methane Emissions from Livestock and Poultry Farming in Beijing. <i>Sustainability</i> , <b>2019</b> , 11, 3858	3.6	

418	Vegetation restoration stimulates soil carbon sequestration and stabilization in a subtropical area of southern China. <i>Catena</i> , <b>2019</b> , 181, 104098	5.8	12
417	Reduced tillage and increased residue retention increase enzyme activity and carbon and nitrogen concentrations in soil particle size fractions in a long-term field experiment on Loess Plateau in China. <i>Soil and Tillage Research</i> , <b>2019</b> , 194, 104296	6.5	23
416	Long-term nitrogen addition modifies microbial composition and functions for slow carbon cycling and increased sequestration in tropical forest soil. <i>Global Change Biology</i> , <b>2019</b> , 25, 3267-3281	11.4	48
415	Root trait plasticity and plant nutrient acquisition in phosphorus limited soil. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2019</b> , 182, 945-952	2.3	17
414	Phenological Stage, Plant Biomass, and Drought Stress Affect Microbial Biomass and Enzyme Activities in the Rhizosphere of Enteropogon macrostachyus. <i>Pedosphere</i> , <b>2019</b> , 29, 259-265	5	5
413	Regulation of priming effect by soil organic matter stability over a broad geographic scale. <i>Nature Communications</i> , <b>2019</b> , 10, 5112	17.4	75
412	Fate of phosphorus fertilizer in acidic Cambisol assessed using 33P isotope labeling technique. <i>Annals of Tropical Research</i> , <b>2019</b> , 32-42	О	
411	Spatial pattern of enzyme activities depends on root exudate composition. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 133, 83-93	7.5	36
410	Visualization and quantification of root exudation using 14C imaging: challenges and uncertainties. <i>Plant and Soil</i> , <b>2019</b> , 437, 473-485	4.2	5
409	Afforestation of loess soils: Old and new organic carbon in aggregates and density fractions. <i>Catena</i> , <b>2019</b> , 177, 49-56	5.8	11
408	Reviews and syntheses: Agropedogenesis Ihumankind as the sixth soil-forming factor and attractors of agricultural soil degradation. <i>Biogeosciences</i> , <b>2019</b> , 16, 4783-4803	4.6	30
407	Nitrogen fertilization modifies organic transformations and coatings on soil biogeochemical interfaces through microbial polysaccharides synthesis. <i>Scientific Reports</i> , <b>2019</b> , 9, 18684	4.9	2
406	Nitrogen and phosphorus enrichment accelerates soil organic carbon loss in alpine grassland on the Qinghai-Tibetan Plateau. <i>Science of the Total Environment</i> , <b>2019</b> , 650, 303-312	10.2	44
405	Glucose and ribose stabilization in soil: Convergence and divergence of carbon pathways assessed by position-specific labeling. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 131, 54-61	7.5	11
404	Fate and transport of urea-N in a rain-fed ridge-furrow crop system with plastic mulch. <i>Soil and Tillage Research</i> , <b>2019</b> , 186, 214-223	6.5	15
403	Initial utilization of rhizodeposits with rice growth in paddy soils: Rhizosphere and N fertilization effects. <i>Geoderma</i> , <b>2019</b> , 338, 30-39	6.7	33
402	Carbon and nitrogen availability in paddy soil affects rice photosynthate allocation, microbial community composition, and priming: combining continuous 13C labeling with PLFA analysis. <i>Plant and Soil</i> , <b>2019</b> , 445, 137-152	4.2	29
401	Ferrous Wheel Hypothesis: Abiotic nitrate incorporation into dissolved organic matter. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 245, 514-524	5.5	18

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400	Environmental drivers and stoichiometric constraints on enzyme activities in soils from rhizosphere to continental scale. <i>Geoderma</i> , <b>2019</b> , 337, 973-982	6.7	35
399	To shake or not to shake: Silicone tube approach for incubation studies on CH oxidation in submerged soils. <i>Science of the Total Environment</i> , <b>2019</b> , 657, 893-901	10.2	5
398	Review and synthesis of the effects of elevated atmospheric CO2 on soil processes: No changes in pools, but increased fluxes and accelerated cycles. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 128, 66-78	7.5	79
397	Tree species identity surpasses richness in affecting soil microbial richness and community composition in subtropical forests. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 130, 113-121	7.5	63
396	Easily mineralizable carbon in manure-based biochar added to a soil influences N2O emissions and microbial-N cycling genes. <i>Land Degradation and Development</i> , <b>2019</b> , 30, 406-416	4.4	14
395	Calibration of 2-D soil zymography for correct analysis of enzyme distribution. <i>European Journal of Soil Science</i> , <b>2019</b> , 70, 715-726	3.4	9
394	Metabolic tracing unravels pathways of fungal and bacterial amino sugar formation in soil. <i>European Journal of Soil Science</i> , <b>2019</b> , 70, 421-430	3.4	7
393	Contribution of soil inorganic carbon to atmospheric CO: More important than previously thought. <i>Global Change Biology</i> , <b>2019</b> , 25, e1-e3	11.4	28
392	Nitrogen pools and cycles in Tibetan Kobresia pastures depending on grazing. <i>Biology and Fertility of Soils</i> , <b>2018</b> , 54, 569-581	6.1	20
391	Nitrogen fertilization raises CO efflux from inorganic carbon: A global assessment. <i>Global Change Biology</i> , <b>2018</b> , 24, 2810-2817	11.4	79
390	Urban soils as hot spots of anthropogenic carbon accumulation: Review of stocks, mechanisms and driving factors. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 1607-1622	4.4	55
389	Depth rather than microrelief controls microbial biomass and kinetics of C-, N-, P- and S-cycle enzymes in peatland. <i>Geoderma</i> , <b>2018</b> , 324, 67-76	6.7	17
388	Feedstock determines biochar-induced soil priming effects by stimulating the activity of specific microorganisms. <i>European Journal of Soil Science</i> , <b>2018</b> , 69, 521-534	3.4	79
387	Carbon budget and greenhouse gas balance during the initial years after rice paddy conversion to vegetable cultivation. <i>Science of the Total Environment</i> , <b>2018</b> , 627, 46-56	10.2	23
386	Effects of rain shortage on carbon allocation, pools and fluxes in a Mediterranean shrub ecosystem - a C labelling field study. <i>Science of the Total Environment</i> , <b>2018</b> , 627, 1242-1252	10.2	6
385	Root hairs increase rhizosphere extension and carbon input to soil. <i>Annals of Botany</i> , <b>2018</b> , 121, 61-69	4.1	66
384	Carbon and nitrogen mineralization and enzyme activities in soil aggregate-size classes: Effects of biochar, oyster shells, and polymers. <i>Chemosphere</i> , <b>2018</b> , 198, 40-48	8.4	51
383	Maize phenology alters the distribution of enzyme activities in soil: Field estimates. <i>Applied Soil Ecology</i> , <b>2018</b> , 125, 233-239	5	12

382	Long-term effects of nitrogen fertilization on aggregation and localization of carbon, nitrogen and microbial activities in soil. <i>Science of the Total Environment</i> , <b>2018</b> , 624, 1131-1139	10.2	40
381	Spatial patterns of enzyme activities in the rhizosphere: Effects of root hairs and root radius. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 118, 69-78	7.5	55
380	Conversion of Tibetan grasslands to croplands decreases accumulation of microbially synthesized compounds in soil. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 123, 10-20	7.5	17
379	Teatime on Mount Kilimanjaro: Assessing climate and land-use effects on litter decomposition and stabilization using the Tea Bag Index. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 2321-2329	4.4	23
378	Phosphorus fractions in subtropical soils depending on land use. <i>European Journal of Soil Biology</i> , <b>2018</b> , 87, 17-24	2.9	25
377	Priming effects induced by glucose and decaying plant residues on SOM decomposition: A three-source 13C/14C partitioning study. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 121, 138-146	7.5	36
376	Tibetan sedges sequester more carbon belowground than grasses: a 13C labeling study. <i>Plant and Soil</i> , <b>2018</b> , 426, 287-298	4.2	19
375	Does repeated biochar incorporation induce further soil priming effect?. <i>Journal of Soils and Sediments</i> , <b>2018</b> , 18, 128-135	3.4	12
374	Responses of Degraded Tibetan Kobresia Pastures to N Addition. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 303-314	4.4	10
373	Carbon input by roots into the soil: Quantification of rhizodeposition from root to ecosystem scale. <i>Global Change Biology</i> , <b>2018</b> , 24, 1-12	11.4	316
372	Contrasting responses of phosphatase kinetic parameters to nitrogen and phosphorus additions in forest soils. <i>Functional Ecology</i> , <b>2018</b> , 32, 106-116	5.6	28
371	Food for microorganisms: Position-specific 13 C labeling and 13 C-PLFA analysis reveals preferences for sorbed or necromass C. <i>Geoderma</i> , <b>2018</b> , 312, 86-94	6.7	13
370	Carbon budgets of top- and subsoil food webs in an arable system. <i>Pedobiologia</i> , <b>2018</b> , 69, 29-33	1.7	6
369	Pedogenic and microbial interrelations to regional climate and local topography: New insights from a climate gradient (arid to humid) along the Coastal Cordillera of Chile. <i>Catena</i> , <b>2018</b> , 170, 335-355	5.8	42
368	Spatiotemporal patterns of enzyme activities in the rhizosphere: effects of plant growth and root morphology. <i>Biology and Fertility of Soils</i> , <b>2018</b> , 54, 819-828	6.1	13
367	Isolating organic carbon fractions with varying turnover rates in temperate agricultural soils <b>A</b> comprehensive method comparison. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 125, 10-26	7.5	125
366	Ash and fire, char, and biochar in the environment. Land Degradation and Development, 2018, 29, 2040-2	2944	4
365	Spatial heterogeneity of microbial community and enzyme activities in a broad-leaved Korean pine mixed forest. European Journal of Soil Biology, 2018, 88, 65-72	2.9	12

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364	Effects of rhizosphere wettability on microbial biomass, enzyme activities and localization. <i>Rhizosphere</i> , <b>2018</b> , 7, 35-42	3.5	15
363	Global-change effects on early-stage decomposition processes in tidal wetlands Implications from a global survey using standardized litter. <i>Biogeosciences</i> , <b>2018</b> , 15, 3189-3202	4.6	46
362	Agroforestry systems: Meta-analysis of soil carbon stocks, sequestration processes, and future potentials. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 3886-3897	4.4	65
361	Microbial processing of plant residues in the subsoil The role of biopores. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 125, 309-318	7.5	15
360	Contrasting effects of organic and mineral nitrogen challenge the N-Mining Hypothesis for soil organic matter priming. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 124, 38-46	7.5	40
359	Carbon allocation and fate in paddy soil depending on phosphorus fertilization and water management: results of 13C continuous labelling of rice. <i>Canadian Journal of Soil Science</i> , <b>2018</b> , 98, 469	-4843	7
358	Chemistry and microbiology of the Critical Zone along a steep climate and vegetation gradient in the Chilean Coastal Cordillera. <i>Catena</i> , <b>2018</b> , 170, 183-203	5.8	38
357	Carbon costs and benefits of Indonesian rainforest conversion to plantations. <i>Nature Communications</i> , <b>2018</b> , 9, 2388	17.4	73
356	Impact of forest fire on soil properties (review) <b>2018</b> , 13-23		8
355	Incorporation of rice straw carbon into dissolved organic matter and microbial biomass along a 100-year paddy soil chronosequence. <i>Applied Soil Ecology</i> , <b>2018</b> , 130, 84-90	5	19
354	Shift from dormancy to microbial growth revealed by RNA:DNA ratio. <i>Ecological Indicators</i> , <b>2018</b> , 85, 603-612	5.8	21
353	Effects of biotic and abiotic factors on soil organic matter mineralization: Experiments and structural modeling analysis. <i>European Journal of Soil Biology</i> , <b>2018</b> , 84, 27-34	2.9	42
352	Rhizodeposition under drought is controlled by root growth rate and rhizosphere water content. <i>Plant and Soil</i> , <b>2018</b> , 423, 429-442	4.2	29
351	DNA-based determination of soil microbial biomass in alkaline and carbonaceous soils of semi-arid climate. <i>Journal of Arid Environments</i> , <b>2018</b> , 150, 54-61	2.5	21
350	Degradation of Tibetan grasslands: Consequences for carbon and nutrient cycles. <i>Agriculture, Ecosystems and Environment,</i> <b>2018</b> , 252, 93-104	5.7	140
349	Rice rhizodeposits affect organic matter priming in paddy soil: The role of N fertilization and plant growth for enzyme activities, CO 2 and CH 4 emissions. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 116, 369-37	<b>7</b> 7·5	78
348	Soil microorganisms exhibit enzymatic and priming response to root mucilage under drought. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 116, 410-418	7.5	22
347	Functional soil organic matter fractions in response to long-term fertilization in upland and paddy systems in South China. <i>Catena</i> , <b>2018</b> , 162, 270-277	5.8	21

346	Carbon sequestration and turnover in soil under the energy crop Miscanthus: repeated 13C natural abundance approach and literature synthesis. <i>GCB Bioenergy</i> , <b>2018</b> , 10, 262-271	5.6	30
345	Soil organic matter availability and climate drive latitudinal patterns in bacterial diversity from tropical to cold temperate forests. <i>Functional Ecology</i> , <b>2018</b> , 32, 61-70	5.6	63
344	Responses of Soil Enzyme Activities and Microbial Community Composition to Moisture Regimes in Paddy Soils Under Long-Term Fertilization Practices. <i>Pedosphere</i> , <b>2018</b> , 28, 323-331	5	13
343	Effects of Elevated CO2 in the Atmosphere on Soil C and N Turnover. <i>Developments in Soil Science</i> , <b>2018</b> , 207-219	1.3	1
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341	Alteration process during the post-agricultural restoration of Luvisols of the temperate broad-leaved forest in Russia. <i>Catena</i> , <b>2018</b> , 171, 602-612	5.8	14
340	Simulated leaf litter addition causes opposite priming effects on natural forest and plantation soils. <i>Biology and Fertility of Soils</i> , <b>2018</b> , 54, 925-934	6.1	19
339	Quantitative soil zymography: Mechanisms, processes of substrate and enzyme diffusion in porous media. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 127, 156-167	7.5	32
338	Viruses in soil: Nano-scale undead drivers of microbial life, biogeochemical turnover and ecosystem functions. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 127, 305-317	7.5	85
337	Manure and Mineral Fertilizer Effects on Crop Yield and Soil Carbon Sequestration: A Meta-Analysis and Modeling Across China. <i>Global Biogeochemical Cycles</i> , <b>2018</b> , 32, 1659-1672	5.9	24
336	Interactive priming effect of labile carbon and crop residues on SOM depends on residue decomposition stage: Three-source partitioning to evaluate mechanisms. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 126, 179-190	7.5	22
335	Warming exerts greater impacts on subsoil than topsoil CO2 efflux in a subtropical forest. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 263, 137-146	5.8	8
334	Towards a conversion factor for soil microbial phosphorus. <i>European Journal of Soil Biology</i> , <b>2018</b> , 87, 1-8	2.9	12
333	Land use and fertilisation affect priming in tropical andosols. <i>European Journal of Soil Biology</i> , <b>2018</b> , 87, 9-16	2.9	5
332	Effect of biochar origin and soil pH on greenhouse gas emissions from sandy and clay soils. <i>Applied Soil Ecology</i> , <b>2018</b> , 129, 121-127	5	65
331	Deforestation decreases spatial turnover and alters the network interactions in soil bacterial communities. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 123, 80-86	7.5	44
330	Effects of biochar and polyacrylamide on decomposition of soil organic matter and 14C-labeled alfalfa residues. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 611-620	3.4	11
329	Carbon and Nitrogen Losses from Soil Depend on Degradation of Tibetan Kobresia Pastures. <i>Land Degradation and Development</i> , <b>2017</b> , 28, 1253-1262	4.4	28

328	Decrease of soil organic matter stabilization with increasing inputs: Mechanisms and controls. <i>Geoderma</i> , <b>2017</b> , 304, 76-82	6.7	90
327	Mineralization of flon-metabolizablelglucose analogues in soil: potential chemosensory mimics of glucose. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2017</b> , 180, 165-168	2.3	2
326	Non-metabolizable lglucose analogue shines new light on priming mechanisms: Triggering of microbial metabolism. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 107, 68-76	7.5	24
325	Soil aggregation regulates distributions of carbon, microbial community and enzyme activities after 23-year manure amendment. <i>Applied Soil Ecology</i> , <b>2017</b> , 111, 65-72	5	73
324	Sorption of Alanine changes microbial metabolism in addition to availability. <i>Geoderma</i> , <b>2017</b> , 292, 128-	16. <del>4</del>	11
323	Carbon Sources in Fruit Carbonate of Buglossoides arvensis and Consequences for 14C Dating. <i>Radiocarbon</i> , <b>2017</b> , 59, 141-150	4.6	3
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318	Microbial decomposition of soil organic matter is mediated by quality and quantity of crop residues: mechanisms and thresholds. <i>Biology and Fertility of Soils</i> , <b>2017</b> , 53, 287-301	6.1	104
317	Annual methane uptake from different land uses in an agro-pastoral ecotone of northern China. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 236, 67-77	5.8	15
316	Warming increases hotspot areas of enzyme activity and shortens the duration of hot moments in the root-detritusphere. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 107, 226-233	7.5	41
315	Microbial uptake and utilization of low molecular weight organic substrates in soil depend on carbon oxidation state. <i>Biogeochemistry</i> , <b>2017</b> , 133, 89-100	3.8	36
314	Labile carbon and nitrogen additions affect soil organic matter decomposition more strongly than temperature. <i>Applied Soil Ecology</i> , <b>2017</b> , 114, 152-160	5	29
313	Community-weighted means and functional dispersion of plant functional traits along environmental gradients on Mount Kilimanjaro. <i>Journal of Vegetation Science</i> , <b>2017</b> , 28, 684-695	3.1	40
312	Biopore history determines the microbial community composition in subsoil hotspots. <i>Biology and Fertility of Soils</i> , <b>2017</b> , 53, 573-588	6.1	32
311	Spatio-temporal patterns of enzyme activities after manure application reflect mechanisms of niche differentiation between plants and microorganisms. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 112, 100-	-7059	43

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309	Rhizosphere engineering: Innovative improvement of root environment. <i>Rhizosphere</i> , <b>2017</b> , 3, 176-184	3.5	15
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302	Nitrogen fertilization increases rhizodeposit incorporation into microbial biomass and reduces soil organic matter losses. <i>Biology and Fertility of Soils</i> , <b>2017</b> , 53, 419-429	6.1	52
301	Effects of grazing on the acquisition of nitrogen by plants and microorganisms in an alpine grassland on the Tibetan plateau. <i>Plant and Soil</i> , <b>2017</b> , 416, 297-308	4.2	13
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299	Priming effects in biochar enriched soils using a three-source-partitioning approach: 14C labelling and 13C natural abundance. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 106, 28-35	7.5	79
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293	Shifts in microbial communities with increasing soil fertility across a chronosequence of paddy cultivation in subtropical China. <i>Applied Soil Ecology</i> , <b>2017</b> , 120, 153-159	5	23

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291	Mapping the footprint of nematodes in the rhizosphere: Cluster root formation and spatial distribution of enzyme activities. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 115, 213-220	7.5	15	
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285	Effects of flooding on phosphorus and iron mobilization in highly weathered soils under different land-use types: Short-term effects and mechanisms. <i>Catena</i> , <b>2017</b> , 158, 161-170	5.8	50	
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283	Land-use change affects phosphorus fractions in highly weathered tropical soils. <i>Catena</i> , <b>2017</b> , 149, 385	5 <b>-3.9</b> 3	86	
282	Interactive effects of biochar and polyacrylamide on decomposition of maize rhizodeposits: implications from 14C labeling and microbial metabolic quotient. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 621-631	3.4	3	
281	Rice rhizodeposition and its utilization by microbial groups depends on N fertilization. <i>Biology and Fertility of Soils</i> , <b>2017</b> , 53, 37-48	6.1	88	
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272	Microbial Metabolism in Soil at Subzero Temperatures: Adaptation Mechanisms Revealed by Position-Specific C Labeling. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 946	5.7	19
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270	Contrasting effects of aged and fresh biochars on glucose-induced priming and microbial activities in paddy soil. <i>Journal of Soils and Sediments</i> , <b>2016</b> , 16, 191-203	3.4	32
269	Small but active [bool size does not matter for carbon incorporation in below-ground food webs. <i>Functional Ecology</i> , <b>2016</b> , 30, 479-489	5.6	60
268	Biochar stability in soil: meta-analysis of decomposition and priming effects. <i>GCB Bioenergy</i> , <b>2016</b> , 8, 512-523	5.6	498
267	Functional response of soil microbial communities to tillage, cover crops and nitrogen fertilization. <i>Applied Soil Ecology</i> , <b>2016</b> , 108, 147-155	5	73
266	How do microbial communities in top- and subsoil respond to root litter addition under field conditions?. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 103, 28-38	7.5	29
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262	CaCO3 recrystallization in saline and alkaline soils. <i>Geoderma</i> , <b>2016</b> , 282, 1-8	6.7	22
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254	Carbon input and partitioning in subsoil by chicory and alfalfa. Plant and Soil, 2016, 406, 29-42	4.2	11
253	Pedogenic carbonates: Forms and formation processes. <i>Earth-Science Reviews</i> , <b>2016</b> , 157, 1-17	10.2	216
252	Incorporation of root C and fertilizer N into the food web of an arable field: Variations with functional group and energy channel. <i>Food Webs</i> , <b>2016</b> , 9, 39-45	1.8	11
251	Cation exchange retards shell carbonate recrystallization: consequences for dating and paleoenvironmental reconstructions. <i>Catena</i> , <b>2016</b> , 142, 134-138	5.8	11
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246	Lasting effect of soil warming on organic matter decomposition depends on tillage practices. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 95, 243-249	7.5	28
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227	Aggregate size and glucose level affect priming sources: A three-source-partitioning study. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 97, 199-210	7.5	29
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224	Sugars in soil and sweets for microorganisms: Review of origin, content, composition and fate. <i>Soil Biology and Biochemistry</i> , <b>2015</b> , 90, 87-100	7.5	222
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207	Nitrous oxide emissions from an agro-pastoral ecotone of northern China depending on land uses. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 213, 241-251	5.7	21
206	Assessing the stability of soil organic matter by fractionation and 13C isotope techniques. <i>Eurasian Soil Science</i> , <b>2015</b> , 48, 157-168	1.5	3
205	Microbial hotspots and hot moments in soil: Concept & review. <i>Soil Biology and Biochemistry</i> , <b>2015</b> , 83, 184-199	7.5	773
204	Aggregate size and their disruption affect 14C-labeled glucose mineralization and priming effect. <i>Applied Soil Ecology</i> , <b>2015</b> , 90, 1-10	5	53
203	Partitioning NEE for absolute C input into various ecosystem pools by combining results from eddy-covariance, atmospheric flux partitioning and 13CO2 pulse labeling. <i>Plant and Soil</i> , <b>2015</b> , 390, 61-	7 <b>6</b> .2	14

202	Root-Derived Short-Chain Suberin Diacids from Rice and Rape Seed in a Paddy Soil under Rice Cultivar Treatments. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127474	3.7	6
201	Effects of 15 years of manure and mineral fertilizers on enzyme activities in particle-size fractions in a North China Plain soil. <i>European Journal of Soil Biology</i> , <b>2014</b> , 60, 112-119	2.9	97
200	Pathways of litter C by formation of aggregates and SOM density fractions: Implications from 13C natural abundance. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 71, 95-104	7.5	113
199	Sorption affects amino acid pathways in soil: Implications from position-specific labeling of alanine. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 72, 180-192	7.5	48
198	Comparison of net ecosystem CO2 exchange in cropland and grassland with an automated closed chamber system. <i>Nutrient Cycling in Agroecosystems</i> , <b>2014</b> , 98, 113-124	3.3	9
197	Spatial and temporal dynamics of hotspots of enzyme activity in soil as affected by living and dead roots soil zymography analysis. <i>Plant and Soil</i> , <b>2014</b> , 379, 67-77	4.2	87
196	Microbial interactions affect sources of priming induced by cellulose. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 74, 39-49	7.5	110
195	Plant traits regulating N capture define microbial competition in the rhizosphere. <i>European Journal of Soil Biology</i> , <b>2014</b> , 61, 41-48	2.9	26
194	Soil C and N availability determine the priming effect: microbial N mining and stoichiometric decomposition theories. <i>Global Change Biology</i> , <b>2014</b> , 20, 2356-67	11.4	487
193	Carbon cost of collective farming collapse in Russia. <i>Global Change Biology</i> , <b>2014</b> , 20, 938-47	11.4	87
192	Fate of low molecular weight organic substances in an arable soil: From microbial uptake to utilisation and stabilisation. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 77, 304-313	7.5	102
191	Dynamics of soil organic carbon pools after agricultural abandonment. <i>Geoderma</i> , <b>2014</b> , 235-236, 191-1	<b>96</b> .7	50
190	Spatial distribution and turnover of root-derived carbon in alfalfa rhizosphere depending on topand subsoil properties and mycorrhization. <i>Plant and Soil</i> , <b>2014</b> , 380, 101-115	4.2	24
189	Biochar stability in soil: Decomposition during eight years and transformation as assessed by compound-specific 14C analysis. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 70, 229-236	7.5	322
188	Glucose decomposition and its incorporation into soil microbial biomass depending on land use in Mt. Kilimanjaro ecosystems. <i>European Journal of Soil Biology</i> , <b>2014</b> , 62, 74-82	2.9	21
187	Labile carbon retention compensates for CO2 released by priming in forest soils. <i>Global Change Biology</i> , <b>2014</b> , 20, 1943-54	11.4	118
186	Fate of 14C-labeled dissolved organic matter in paddy and upland soils in responding to moisture. <i>Science of the Total Environment</i> , <b>2014</b> , 488-489, 268-74	10.2	17
185	Medium-term response of microbial community to rhizodeposits of white clover and ryegrass and tracing of active processes induced by 13C and 15N labelled exudates. <i>Soil Biology and Biochemistry</i>	7.5	39

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184	Pasture degradation modifies the water and carbon cycles of the Tibetan highlands. <i>Biogeosciences</i> , <b>2014</b> , 11, 6633-6656	4.6	61
183	Improved [113)C analysis of amino sugars in soil by ion chromatography-oxidation-isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 569-76	2.2	14
182	Nutrient limitation of alpine plants: Implications from leaf NIIP stoichiometry and leaf 115N. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2014</b> , 177, 378-387	2.3	34
181	Microbial growth and carbon use efficiency in the rhizosphere and root-free soil. <i>PLoS ONE</i> , <b>2014</b> , 9, e9	338,2	137
180	Effect of cactus pear cultivation after Mediterranean maquis on soil carbon stock, 🛭 3C spatial distribution and root turnover. <i>Catena</i> , <b>2014</b> , 118, 84-90	5.8	10
179	Forest vegetation in western Romania in relation to climate variables: Does community composition reflect modelled tree species distribution?. <i>Annals of Forest Research</i> , <b>2014</b> , 59,	2.4	6
178	Mechanisms of rhizosphere priming effects and their ecological significance. <i>Chinese Journal of Plant Ecology</i> , <b>2014</b> , 38, 62-75	1.2	11
177	Biogeochemical transformations of amino acids in soil assessed by position-specific labelling. <i>Plant and Soil</i> , <b>2013</b> , 373, 385-401	4.2	45
176	Bicarbonate as tracer for assimilated C and homogeneity of 14C and 15N distribution in plants by alternative labeling approaches. <i>Plant and Soil</i> , <b>2013</b> , 371, 191-198	4.2	12
175	C and N allocation in soil under ryegrass and alfalfa estimated by 13C and 15N labelling. <i>Plant and Soil</i> , <b>2013</b> , 368, 581-590	4.2	28
174	Estimation of rhizodeposition at field scale: upscaling of a 14C labeling study. <i>Plant and Soil</i> , <b>2013</b> , 364, 273-285	4.2	94
173	Integrated management systems and N fertilization: effect on soil organic matter in rice-rapeseed rotation. <i>Plant and Soil</i> , <b>2013</b> , 372, 53-63	4.2	18
172	Allocation and dynamics of assimilated carbon in rice-soil system depending on water management. <i>Plant and Soil</i> , <b>2013</b> , 363, 273-285	4.2	48
171	Microbial response to rhizodeposition depending on water regimes in paddy soils. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 65, 195-203	7.5	60
170	Distribution of microbial- and root-derived phosphatase activities in the rhizosphere depending on P availability and C allocation © coupling soil zymography with 14C imaging. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 67, 106-113	7.5	147
169	Active microorganisms in soil: Critical review of estimation criteria and approaches. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 67, 192-211	7.5	475
168	Labile soil organic matter fractions as influenced by non-flooded mulching cultivation and cropping season in rice wheat rotation. <i>European Journal of Soil Biology</i> , <b>2013</b> , 56, 19-25	2.9	44
167	Fate of fertilizer 15N in intensive ridge cultivation with plastic mulching under a monsoon climate.  Nutrient Cycling in Agroecosystems, 2013, 95, 57-72	3.3	35

166	Biochemical pathways of amino acids in soil: Assessment by position-specific labeling and 13C-PLFA analysis. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 67, 31-40	7.5	63
165	Effect of clipping and shading on C allocation and fluxes in soil under ryegrass and alfalfa estimated by 14C labelling. <i>Applied Soil Ecology</i> , <b>2013</b> , 64, 228-236	5	31
164	Plant inter-species effects on rhizosphere priming of soil organic matter decomposition. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 57, 91-99	7.5	71
163	Nutrient acquisition from arable subsoils in temperate climates: A review. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 57, 1003-1022	7.5	173
162	Effect of land-use and elevation on microbial biomass and water extractable carbon in soils of Mt. Kilimanjaro ecosystems. <i>Applied Soil Ecology</i> , <b>2013</b> , 67, 10-19	5	82
161	Soil zymography IA novel in situ method for mapping distribution of enzyme activity in soil. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 58, 275-280	7.5	91
160	Phosphorus mineralization can be driven by microbial need for carbon. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 61, 69-75	7.5	162
159	Effects of polyacrylamide, biopolymer and biochar on the decomposition of 14C-labelled maize residues and on their stabilization in soil aggregates. <i>European Journal of Soil Science</i> , <b>2013</b> , 64, 488-49	9 3.4	96
158	Silicon uptake by wheat: Effects of Si pools and pH. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2013</b> , 176, 551-560	2.3	32
157	Microbial gross organic phosphorus mineralization can be stimulated by root exudates IA 33P isotopic dilution study. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 65, 254-263	7.5	84
156	Competition between roots and microorganisms for nitrogen: mechanisms and ecological relevance. <i>New Phytologist</i> , <b>2013</b> , 198, 656-669	9.8	644
155	Turnover and availability of soil organic carbon under different Mediterranean land-uses as estimated by 13C natural abundance. <i>European Journal of Soil Science</i> , <b>2013</b> , 64, 466-475	3.4	23
154	Differentiation of plant derived organic matter in soil, loess and rhizoliths based on n-alkane molecular proxies. <i>Biogeochemistry</i> , <b>2013</b> , 112, 23-40	3.8	44
153	Soil microbial biomass and its activity estimated by kinetic respiration analysis <b>Statistical</b> guidelines. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 45, 102-112	7.5	31
152	Carbon allocation in grassland communities under drought stress followed by 14C pulse labeling. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 55, 132-139	7·5	93
151	Soil organic carbon decomposition from recently added and older sources estimated by <b>1</b> 3C values of CO2 and organic matter. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 55, 40-47	7.5	50
150	Direct phloem transport and pressure concentration waves in linking shoot and rhizosphere activity <i>Plant and Soil</i> , <b>2012</b> , 351, 23-30	4.2	6
149	Effects of anionic polyacrylamide on maize growth: a short term 14C labeling study. <i>Plant and Soil</i> , <b>2012</b> , 350, 311-322	4.2	20

148	Effects of 15 years of manure and inorganic fertilizers on soil organic carbon fractions in a wheat-maize system in the North China Plain. <i>Nutrient Cycling in Agroecosystems</i> , <b>2012</b> , 92, 21-33	3.3	176
147	Response of long-, medium- and short-term processes of the carbon budget to overgrazing-induced crusts in the Tibetan Plateau. <i>Biogeochemistry</i> , <b>2012</b> , 111, 187-201	3.8	26
146	Use of molecular ratios to identify changes in fatty acid composition of Miscanthusgiganteus (Greef et Deu.) plant tissue, rhizosphere and root-free soil during a laboratory experiment. <i>Organic Geochemistry</i> , <b>2012</b> , 46, 1-11	3.1	28
145	Carbon flow into microbial and fungal biomass as a basis for the belowground food web of agroecosystems. <i>Pedobiologia</i> , <b>2012</b> , 55, 111-119	1.7	88
144	Effects of polyacrylamide, biopolymer, and biochar on decomposition of soil organic matter and plant residues as determined by 14C and enzyme activities. <i>European Journal of Soil Biology</i> , <b>2012</b> , 48, 1-10	2.9	133
143	Pedogenic carbonate formation: Recrystallization versus migration Process rates and periods assessed by 14C labeling. <i>Global Biogeochemical Cycles</i> , <b>2012</b> , 26, n/a-n/a	5.9	33
142	N fluxes in an agricultural catchment under monsoon climate: A budget approach at different scales. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 161, 101-111	5.7	35
141	Effects of land use intensity on dissolved organic carbon properties and microbial community structure. <i>European Journal of Soil Biology</i> , <b>2012</b> , 52, 67-72	2.9	45
140	Processes of Soil Carbon Dynamics and Ecosystem Carbon Cycling in a Changing World <b>2012</b> , 395-428		7
139	Soils of an Early Medieval (4thBth Centuries) Settlement in the Middle Tobol Region and their Paleogeographic Implication. <i>Archaeology, Ethnology and Anthropology of Eurasia</i> , <b>2012</b> , 40, 134-143	0.3	2
138	Decomposition of biogas residues in soil and their effects on microbial growth kinetics and enzyme activities. <i>Biomass and Bioenergy</i> , <b>2012</b> , 45, 221-229	5.3	70
137	Soil organic carbon and total nitrogen in intensively managed arable soils. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 150, 102-110	5.7	70
136	Effect of grazing on carbon stocks and assimilate partitioning in a Tibetan montane pasture revealed by 13CO2 pulse labeling. <i>Global Change Biology</i> , <b>2012</b> , 18, 528-538	11.4	156
135	Drought effects on microbial biomass and enzyme activities in the rhizosphere of grasses depend on plant community composition. <i>Applied Soil Ecology</i> , <b>2011</b> , 48, 38-44	5	142
134	Carbonate rhizoliths in loess and their implications for paleoenvironmental reconstruction revealed by isotopic composition: <b>1</b> 3C, 14C. <i>Chemical Geology</i> , <b>2011</b> , 283, 251-260	4.2	71
133	Effect of temperature and rhizosphere processes on pedogenic carbonate recrystallization: Relevance for paleoenvironmental applications. <i>Geoderma</i> , <b>2011</b> , 166, 57-65	6.7	23
132	Plant-mediated CH<sub>4</sub> transport and contribution of photosynthates to methanogenesis at a boreal mire: a <sup>14</sup>C pulse-labeling study. <i>Biogeosciences</i> , <b>2011</b> , 8, 2365-2375	4.6	60
131	How to link soil C pools with CO<sub>2</sub> fluxes?. <i>Biogeosciences</i> , <b>2011</b> , 8, 1523-1537	4.6	49

130	Photoassimilate allocation and dynamics of hotspots in roots visualized by 14C phosphor imaging. Journal of Plant Nutrition and Soil Science, <b>2011</b> , 174, 12-19	2.3	58
129	Pedogenic carbonate recrystallization assessed by isotopic labeling: a comparison of 13C and 14C tracers. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2011</b> , 174, 809-817	2.3	6
128	Stem labeling results in different patterns of 14C rhizorespiration and 15N distribution in plants compared to natural assimilation pathways. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2011</b> , 174, 732-7	42.3	27
127	Spatio-temporal variations determine plantfhicrobe competition for inorganic nitrogen in an alpine meadow. <i>Journal of Ecology</i> , <b>2011</b> , 99, no-no	6	20
126	Turnover of soil organic matter and of microbial biomass under C3t14 vegetation change: Consideration of 13C fractionation and preferential substrate utilization. <i>Soil Biology and Biochemistry</i> , <b>2011</b> , 43, 159-166	7.5	141
125	C and N in soil organic matter density fractions under elevated atmospheric CO2: Turnover vs. stabilization. <i>Soil Biology and Biochemistry</i> , <b>2011</b> , 43, 579-589	7.5	55
124	Three-source-partitioning of microbial biomass and of CO2 efflux from soil to evaluate mechanisms of priming effects. <i>Soil Biology and Biochemistry</i> , <b>2011</b> , 43, 778-786	7.5	109
123	Identification of labile and stable pools of organic matter in an agrogray soil. <i>Eurasian Soil Science</i> , <b>2011</b> , 44, 628-640	1.5	11
122	Carbonate recrystallization in root-free soil and rhizosphere of Triticum aestivum and Lolium perenne estimated by 14C labeling. <i>Biogeochemistry</i> , <b>2011</b> , 103, 209-222	3.8	58
121	Dominant plant species shift their nitrogen uptake patterns in response to nutrient enrichment caused by a fungal fairy in an alpine meadow. <i>Plant and Soil</i> , <b>2011</b> , 341, 495-504	4.2	56
120	Microbial uptake of low-molecular-weight organic substances out-competes sorption in soil. <i>European Journal of Soil Science</i> , <b>2010</b> , 61, 504-513	3.4	122
119	Elevated atmospheric CO2 increases microbial growth rates in soil: results of three CO2 enrichment experiments. <i>Global Change Biology</i> , <b>2010</b> , 16, 836-848	11.4	113
118	REVIEW: Time lag between photosynthesis and carbon dioxide efflux from soil: a review of mechanisms and controls. <i>Global Change Biology</i> , <b>2010</b> , 16, 3386-3406	11.4	475
117	Effect of CO2 concentration on the initial recrystallization rate of pedogenic carbonate Revealed by 14C and 13C labeling. <i>Geoderma</i> , <b>2010</b> , 155, 351-358	6.7	24
116	Source determination of lipids in bulk soil and soil density fractions after four years of wheat cropping. <i>Geoderma</i> , <b>2010</b> , 156, 267-277	6.7	66
115	Effects of aggregation processes on distribution of aggregate size fractions and organic C content of a long-term fertilized soil. <i>European Journal of Soil Biology</i> , <b>2010</b> , 46, 365-370	2.9	34
114	Fast incorporation of root-derived lipids and fatty acids into soil Evidence from a short term multiple pulse labelling experiment. <i>Organic Geochemistry</i> , <b>2010</b> , 41, 1049-1055	3.1	49
113	Rhizoliths in loess Levidence for post-sedimentary incorporation of root-derived organic matter in terrestrial sediments as assessed from molecular proxies. <i>Organic Geochemistry</i> , <b>2010</b> , 41, 1198-1206	3.1	56

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112	Rhizodeposition of maize: Short-term carbon budget and composition. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2010</b> , 173, 67-79	2.3	32
111	Growth rates of rhizosphere microorganisms depend on competitive abilities of plants and N supply. <i>Plant Biosystems</i> , <b>2010</b> , 144, 408-413	1.6	13
110	Responses of ecosystem carbon dioxide fluxes to soil moisture fluctuations in a moist Kenyan savanna. <i>Journal of Tropical Ecology</i> , <b>2010</b> , 26, 605-618	1.3	16
109	Influence of defoliation on CO2 efflux from soil and microbial activity in a Mediterranean grassland. <i>Agriculture, Ecosystems and Environment</i> , <b>2010</b> , 136, 87-96	5.7	41
108	Optimization of 14C liquid scintillation counting of plant and soil lipids to trace short term formation, translocation and degradation of lipids. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2010</b> , 284, 99-108	1.5	5
107	Respiration costs associated with nitrate reduction as estimated by 14CO2 pulse labeling of corn at various growth stages. <i>Plant and Soil</i> , <b>2010</b> , 329, 433-445	4.2	20
106	Nitrogen uptake and utilisation as a competition factor between invasive Duchesnea indica and native Fragaria vesca. <i>Plant and Soil</i> , <b>2010</b> , 331, 105-114	4.2	27
105	Sorption, microbial uptake and decomposition of acetate in soil: Transformations revealed by position-specific 14C labeling. <i>Soil Biology and Biochemistry</i> , <b>2010</b> , 42, 186-192	7.5	45
104	Plant uptake of dual-labeled organic N biased by inorganic C uptake: Results of a triple labeling study. <i>Soil Biology and Biochemistry</i> , <b>2010</b> , 42, 524-527	7.5	34
103	Priming effects: Interactions between living and dead organic matter. <i>Soil Biology and Biochemistry</i> , <b>2010</b> , 42, 1363-1371	7.5	1127
102	Model of apparent and real priming effects: Linking microbial activity with soil organic matter decomposition. <i>Soil Biology and Biochemistry</i> , <b>2010</b> , 42, 1275-1283	7.5	130
101	13C fractionation at the roothicroorganismsBoil interface: A review and outlook for partitioning studies. <i>Soil Biology and Biochemistry</i> , <b>2010</b> , 42, 1372-1384	7.5	238
100	Effect of fertilization on decomposition of 14C labelled plant residues and their incorporation into soil aggregates. <i>Soil and Tillage Research</i> , <b>2010</b> , 109, 94-102	6.5	57
99	Comments on the paper by Kemmitt etlal. (2008) Mineralization of native soil organic matter is not regulated by the size, activity or composition of the soil microbial biomass [A new perspective] [Soil Biology & Biochemistry 40, 61[3]: The biology of the Regulatory Gate. Soil Biology and	7.5	71
98	Black carbon decomposition and incorporation into soil microbial biomass estimated by 14C labeling. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 210-219	7.5	740
07	Carbon isotopes as proof for plant uptake of organic nitrogen: Relevance of inorganic carbon	7.5	19
97	uptake. Soil Biology and Biochemistry, <b>2009</b> , 41, 1586-1587	7.5	
96		6.5	207

94	Stimulation of microbial extracellular enzyme activities by elevated CO2 depends on soil aggregate size. <i>Global Change Biology</i> , <b>2009</b> , 15, 1603-1614	11.4	155
93	Stimulation of r- vs. K-selected microorganisms by elevated atmospheric CO(2) depends on soil aggregate size. <i>FEMS Microbiology Ecology</i> , <b>2009</b> , 69, 43-52	4.3	53
92	Effect of land use types on decomposition of 14C-labelled maize residue (Zea mays L.). <i>European Journal of Soil Biology</i> , <b>2009</b> , 45, 123-130	2.9	28
91	Three-source partitioning of CO2 efflux from maize field soil by 13C natural abundance. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2009</b> , 172, 487-499	2.3	20
90	Plant lipid composition is not affected by short-term isotopic (13C) pulse-labelling experiments. Journal of Plant Nutrition and Soil Science, 2009, 172, 445-453	2.3	12
89	Root-derived carbon in soil respiration and microbial biomass determined by 14C and 13C. <i>Soil Biology and Biochemistry</i> , <b>2008</b> , 40, 625-637	7.5	73
88	Microbial utilization and mineralization of [14C]glucose added in six orders of concentration to soil. <i>Soil Biology and Biochemistry</i> , <b>2008</b> , 40, 1981-1988	7.5	95
87	Root uptake of N-containing and N-free low molecular weight organic substances by maize: A 14C/15N tracer study. <i>Soil Biology and Biochemistry</i> , <b>2008</b> , 40, 2237-2245	7.5	33
86	Ammonium versus nitrate nutrition of Zea mays and Lupinus albus: Effect on root-derived CO2 efflux. <i>Soil Biology and Biochemistry</i> , <b>2008</b> , 40, 2835-2842	7.5	41
85	Root-derived respiration and non-structural carbon of rice seedlings. <i>European Journal of Soil Biology</i> , <b>2008</b> , 44, 22-29	2.9	28
84	Effect of heavy metals contamination on root-derived and organic matter-derived CO2 efflux from soil planted with Zea mays. <i>European Journal of Soil Biology</i> , <b>2008</b> , 44, 501-508	2.9	7
83	Thermal stability of soil organic matter pools and their turnover times calculated by delta(13)C under elevated CO(2) and two levels of N fertilisation. <i>Isotopes in Environmental and Health Studies</i> , <b>2008</b> , 44, 365-76	1.5	5
82	Improved RP-HPLC and anion-exchange chromatography methods for the determination of amino acids and carbohydrates in soil solutions. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2008</b> , 171, 917-926	2.3	22
81	Light affects competition for inorganic and organic nitrogen between maize and rhizosphere microorganisms. <i>Plant and Soil</i> , <b>2008</b> , 304, 59-72	4.2	38
8o	Mechanisms of real and apparent priming effects and their dependence on soil microbial biomass and community structure: critical review. <i>Biology and Fertility of Soils</i> , <b>2008</b> , 45, 115-131	6.1	832
79	A new rapid micro-method for the molecular-chemical characterization of rhizodeposits by field-ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2008</b> , 22, 1230-4	2.2	13
78	The third international conference <b>E</b> mission and Sinks of Greenhouse Gases in Northern Eurasiall <i>Eurasian Soil Science</i> , <b>2008</b> , 41, 554-559	1.5	
77	The rates of organic matter renewal in gray forest soils and chernozems. <i>Eurasian Soil Science</i> , <b>2008</b> , 41, 1378-1386	1.5	8

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76	Soil organic matter mineralization and residue decomposition of spring wheat grown under elevated CO2 atmosphere. <i>Agriculture, Ecosystems and Environment</i> , <b>2008</b> , 123, 63-68	5.7	21
75	Carbon pool and sequestration in former arable Chernozems depending on restoration period. <i>Ekologija (Vilnius, Lithuania)</i> , <b>2008</b> , 54, 232-238		19
74	Effects of nitrogen and intensive mixing on decomposition of 14C-labelled maize (Zea mays L.) residue in soils of different land use types. <i>Soil and Tillage Research</i> , <b>2007</b> , 96, 114-123	6.5	36
73	Thermal stability of soil organic matter pools and their 🛮 3C values after C3🗘 4 vegetation change. <i>Soil Biology and Biochemistry</i> , <b>2007</b> , 39, 1173-1180	7.5	28
72	Elevation of atmospheric CO2 and N-nutritional status modify nodulation, nodule-carbon supply, and root exudation of Phaseolus vulgaris L <i>Soil Biology and Biochemistry</i> , <b>2007</b> , 39, 2208-2221	7.5	114
71	Carbohydrate and amino acid composition of dissolved organic matter leached from soil. <i>Soil Biology and Biochemistry</i> , <b>2007</b> , 39, 2926-2935	7.5	110
70	Carbon balance in the soils of abandoned lands in Moscow region. <i>Eurasian Soil Science</i> , <b>2007</b> , 40, 51-58	1.5	28
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