Soils, a sink for N2O? A review

DOI: 10.1111/j.1365-2486.2006.01280.x
Global Change Biology, 2007, 13, 1-17.

#	Paper	IF	Citations
1057	Stochastic Dynamics of Plant-Water Interactions. **2007**, 38, 767-791		67
1056	Terrestrial Carbon Cycle Feedback to Climate Warming. **2007**, 38, 683-712		357
1055	Residue, respiration, and residuals: Evaluation of a dynamic agroecosystem model using eddy flux measurements and biometric data. **2007**, 146, 134-158		80
1054	Storage, Patterns and Controls of Soil Nitrogen in China. **2007**, 17, 776-785		49
1053	Isotopic composition of tropospheric and soil N2O from successive depths of agricultural plots with contrasting crops and nitrogen amendments. **2007**, 112,		22
1052	Community shifts and carbon translocation within metabolically-active rhizosphere microorganisms in grasslands under elevated CO₂. **2007**, 4, 769-779		129
1051	The growing season greenhouse gas balance of a continental tundra site in the Indigirka lowlands, NE Siberia. **2007**, 4, 985-1003		94
1050	High frequency of multiple paternity in the largest rookery of Mediterranean loggerhead sea turtles. **2007**, 16, 3703-11		59
1049	Fluxes of greenhouse gases from Andosols under coffee in monoculture or shaded by Inga densiflora in Costa Rica. **2008**, 89, 329-345		53
1048	Nitrous oxide dynamics in managed northern forest soil profiles: is production offset by consumption?. **2008**, 90, 115-128		32
1047	Role of N2-fixation in Constructed Old-field Communities Under Different Regimes of [CO2], Temperature, and Water Availability. **2008**, 11, 125-137		36
1046	Soil-Atmosphere Exchange of N2O and NO in Near-Natural Savanna and Agricultural Land in Burkina Faso (W. Africa). **2008**, 11, 582-600		70
1045	Nitrous oxide production in soils and the ratio of the fungal to bacterial biomass. **2008**, 41, 1448-1455		8
1044	Simulating effects of land use changes on carbon fluxes: past contributions to atmospheric CO2 increases and future commitments due to losses of terrestrial sink capacity. **2008**, 60, 583-603		127
1043	Influence of temperature and soil water content on bacterial, archaeal and denitrifying microbial communities in drained fen grassland soil microcosms. **2008**, 66, 110-22		130
1042	Biogeochemistry: nitrous oxide in flux. **2008**, 456, 888-9		25
1041	Ralph Lewin (1921–2008). **2008**, 456, 889-889		

1040	Dragonfly community re-organisation in boreal forest lakes: rapid species turnover driven by climate change?. **2008**, 1, 169-179		67
1039	Elevated atmospheric carbon dioxide and ozone alter forest insect abundance and community composition. **2008**, 1, 233-241		49
1038	Heatwave 2003: high summer temperature, rather than experimental fertilization, affects vegetation and CO2 exchange in an alpine bog. **2008**, 179, 142-154		49
1037	Where might the western Svalbard tundra be vulnerable to pink-footed goose (Anser brachyrhynchus) population expansion? Clues from species distribution models. **2008**, 14, 26-37		27
1036	Interannual and seasonal changes in the soil exchange rates of monoterpenes and other VOCs in a Mediterranean shrubland. **2008**, 59, 878-891		38
1035	A model for predicting the emergence of dragonflies in a changing climate. **2008**, 53, 1868-1880		33
1034	Prediction of the distribution of Arctic-nesting pink-footed geese under a warmer climate scenario. *Global Change Biology*, **2008**, 14, 1-10	11.4	232
1033	Voltinism flexibility of a riverine dragonfly along thermal gradients. *Global Change Biology*, **2008**, 14, 470-482	11.4	55
1032	Where temperate meets tropical: multi-factorial effects of elevated CO2, nitrogen enrichment, and competition on a mangrove-salt marsh community. *Global Change Biology*, **2008**, 14, 971-984	11.4	120
1031	Impact of severe dry season on net ecosystem exchange in the Neotropical rainforest of French Guiana. *Global Change Biology*, **2008**, 14, 1917-1933	11.4	171
1030	Long-term impact of a stand-replacing fire on ecosystem CO2 exchange of a ponderosa pine forest. *Global Change Biology*, **2008**, 14, 1801-1820	11.4	113
1029	Near-zero recent carbon accumulation in a bog with high nitrogen deposition in SW Sweden. *Global Change Biology*, **2008**, 14, 2152-2165	11.4	24
1028	Global patterns of socioeconomic biomass flows in the year 2000: A comprehensive assessment of supply, consumption and constraints. **2008**, 65, 471-487		249
1027	Stabilization of oxidative enzymes in desert soil may limit organic matter accumulation. **2008**, 40, 550-553		88
1026	Dinitrogen emissions and the N2:N2O emission ratio of a Rendzic Leptosol as influenced by pH and forest thinning. **2008**, 40, 2317-2323		83
1025	Greenhouse gas fluxes from natural ecosystems. **2008**, 56, 369		228
1024	Sexual segregation in marine fish, reptiles, birds and mammals behaviour patterns, mechanisms and conservation implications. **2008**, 54, 107-70		210
1023	Climate-related Marine Ecosystem Change. **2008**, 309-377		10

1022	Terrestrial Vegetation in the Coupled Human-Earth System: Contributions of Remote Sensing. **2008**, 33, 369-390		72
1021	Boreal Forest and Climate Change. **2008**,		26
1020	Evaluating climatic and soil water controls on evapotranspiration at two Amazonian rainforest sites. **2008**, 148, 850-861		49
1019	Testing the assertion that □ocal food is best□the challenges of an evidence-based approach. **2008**, 19, 265-274		237
1018	Derivation of a spatially explicit 86-year retrospective carbon budget for a landscape undergoing conversion from old-growth to managed forests on Vancouver Island, BC. **2008**, 256, 1677-1691		47
1017	Is multiple-use forest management widely implementable in the tropics?. **2008**, 256, 1468-1476		57
1016	Analysis of the C2H2 inhibition-based N2O production curve to characterize the N2O-reducing activity of denitrifying communities in soil. *Geoderma*, **2008**, 146, 269-276	6.7	14
1015	Determination of the amount of carbon stored in Indonesian peatlands. *Geoderma*, **2008**, 147, 151-158	6.7	171
1014	Disentangling leaf area and environmental effects on the response of the net ecosystem CO exchange to diffuse radiation. **2008**, 35,		36
1013	N2O emissions and carbon sequestration in a nitrogen-fertilized Douglas fir stand. **2008**, 113,		33
1012	Spatial variability of CO2 efflux in a drained cropped peatland south of Venice, Italy. **2008**, 113,		6
1011	Is the Spanish coast within the regular nesting range of the Mediterranean loggerhead sea turtle (Caretta caretta)?. **2008**, 88, 1509-1512		10
1010	Towards quantifying uncertainty in predictions of Amazon 'dieback'. **2008**, 363, 1857-64		130
1009	Risk of natural disturbances makes future contribution of Canada's forests to the global carbon cycle highly uncertain. **2008**, 105, 1551-5		372
1008	Nitrous oxide, carbon dioxide and methane emissions from irrigated cropping systems as influenced by legumes, manure and fertilizer. **2008**, 88, 207-217		63
1007	An analysis of the sensitivity of sap flux to soil and plant variables assessed for an Australian woodland using a soil-plant-atmosphere model. **2008**, 35, 509-520		81
1006	Influence of soil type on N2O and CH4soil fluxes in Hungarian grasslands. **2008**, 9, 75-80		9
1005	Grassland ecology in changing climate and land use. **2008**, 9, 3-12		3

1004	The fate of N₂O consumed in soils. **2008**, 5, 129-132		30
1003	Small scale controls of greenhouse gas release under elevated N deposition rates in a restoring peat bog in NW Germany. **2008**, 5, 925-935		12
1002	A new European plant-specific emission inventory of biogenic volatile organic compounds for use in atmospheric transport models. **2009**, 6, 1059-1087		111
1001	Carbon credits and the conservation of natural areas. **2009**, 17, 1-19		21
1000	Derivation of burn scar depths and estimation of carbon emissions with LIDAR in Indonesian peatlands. **2009**, 106, 21213-8		149
999	Carbon stock and stock changes across a Sitka spruce chronosequence on surface-water gley soils. **2009**, 82, 255-272		36
998	Plastic responses of Abies pinsapo xylogenesis to drought and competition. **2009**, 29, 1525-36		77
997	Discovery of the northernmost loggerhead sea turtle (Caretta caretta) nest. **2009**, 2,		5
996	Compare Eco-physiological Responses of Two Life-Form Plants to Elevated Carbon Dioxide: A Meta-analysis. **2009**,		
995	Linking foliage spectral responses to canopy-level ecosystem photosynthetic light-use efficiency at a Douglas-fir forest in Canada. **2009**, 35, 166-188		80
994	A Discourse on Dutch Colonial Forest Policy and Science in Indonesia at the Beginning of the 20th Century. **2009**, 11, 524-533		20
993	Climate Change and Crops. **2009**,		9
992	Emission of CO2 and N2O from soil cultivated with common bean (Phaseolus vulgaris L.) fertilized with different N sources. *Science of the Total Environment*, **2009**, 407, 4289-96	10.2	28
991	Denitrification and total nitrogen gas production from forest soils of Eastern China. **2009**, 41, 2551-2557		78
990	Impact of Clutch Relocation on Green Turtle Offspring. **2009**, 73, 1151-1157		23
989	Atmospheric composition change: EcosystemsÂtmosphere interactions. **2009**, 43, 5193-5267		506
988	Soil nitrous oxide emissions in long-term cover crops-based rotations under subtropical climate. **2009**, 106, 36-44		89
987	Winter and summer nitrous oxide and nitrogen oxides fluxes from a seasonally snow-covered subalpine meadow at Niwot Ridge, Colorado. **2009**, 95, 131-149		37

986	DOC and N2O dynamics in upland and peatland forest soils after clear-cutting and soil preparation. **2009**, 94, 217-231		28
985	The relationship between N2O, NO, and N2 fluxes from fertilized and irrigated dryland soils of the Aral Sea Basin, Uzbekistan. **2009**, 314, 273-283		51
984	Background nitrous oxide emissions from croplands in China in the year 2000. **2009**, 320, 307-320		40
983	Recovery of groundwater N2O at the soil surface and its contribution to total N2O emissions. **2009**, 85, 299-312		30
982	Respiration of nitrous oxide in suboxic soil. **2009**, 60, 332-337		8
981	Impacts of climate change on fire activity and fire management in the circumboreal forest. *Global Change Biology*, **2009**, 15, 549-560	11.4	441
980	Mitigation of adverse effects of rising CO2 on a planktonic herbivore by mixed algal diets. *Global Change Biology*, **2009**, 15, 523-531	11.4	41
979	Drought turns a Central European Norway spruce forest soil from an N2O source to a transient N2O sink. *Global Change Biology*, **2009**, 15, 850-860	11.4	103
978	Postfire carbon balance in boreal bogs of Alberta, Canada. *Global Change Biology*, **2009**, 15, 63-81	11.4	111
977	Impact of twenty-first century climate change on diadromous fish spread over Europe, North Africa and the Middle East. *Global Change Biology*, **2009**, 15, 1072-1089	11.4	84
976	Reorganization of a large marine ecosystem due to atmospheric and anthropogenic pressure: a discontinuous regime shift in the Central Baltic Sea. *Global Change Biology*, **2009**, 15, 1377-1393	11.4	272
975	Carbon sequestration in boreal jack pine stands following harvesting. *Global Change Biology*, **2009**, 15, 1475-1487	11.4	101
974	Seeing the forest for the trees: long-term exposure to elevated CO2 increases some herbivore densities. *Global Change Biology*, **2009**, 15, 1895-1902	11.4	22
973	Variable temperature sensitivity of soil organic carbon in North American forests. *Global Change Biology*, **2009**, 15, 2295-2310	11.4	41
972	Greenhouse gas fluxes from tropical peatlands in south-east Asia. *Global Change Biology*, **2009**, 16, 1715-1732	11.4	281
971	Carbon dioxide, methane, and nitrous oxide exchanges in an age-sequence of temperate pine forests. *Global Change Biology*, **2009**, 16, 2198-2212	11.4	66
970	Diurnal and seasonal variation in methane emissions in a northern Canadian peatland measured by eddy covariance. *Global Change Biology*, **2009**, 16, 2420	11.4	35
969	Importance of methane and nitrous oxide for Europe's terrestrial greenhouse-gas balance. **2009**, 2, 842-850		272

968	Effects of temperature on biological and biochemical indicators of the life-history strategy of bullhead Cottus gobio. **2009**, 75, 1427-45		8
967	A review of nitrogen enrichment effects on three biogenic GHGs: the CO2 sink may be largely offset by stimulated N2O and CH4 emission. **2009**, 12, 1103-17		446
966	Interacting effects of changes in climate and forest cover on mortality and growth of the southernmost European fir forests. **2009**, 18, 485-497		128
965	Biological weathering and the long-term carbon cycle: integrating mycorrhizal evolution and function into the current paradigm. **2009**, 7, 171-91		211
964	Fluxes of nitrous oxide and methane on an abandoned peat extraction site: effect of reed canary grass cultivation. **2009**, 100, 4723-30		37
963	Nitrogen oxide emissions affected by organic fertilization in a non-irrigated Mediterranean barley field. *Agriculture, Ecosystems and Environment*, **2009**, 132, 106-115	5.7	52
962	Review of greenhouse gas emissions from crop production systems and fertilizer management effects. *Agriculture, Ecosystems and Environment*, **2009**, 133, 247-266	5.7	861
961	Using optical remote sensing techniques to track the development of ozone-induced stress. **2009**, 157, 1413-20		52
960	Managing watershed services of tropical forests and plantations: Can meta-analyses help?. **2009**, 258, 1864-1870		57
959	Evaluating the effect of drier and warmer conditions on water use by Quercus pyrenaica. **2009**, 258, 1719-1730		25
958	Influence of plant communities and soil properties on trace gas fluxes in riparian northern hardwood forests. **2009**, 258, 2076-2082		21
957	Nitrous oxide fluxes from Malagasy agricultural soils. *Geoderma*, **2009**, 148, 421-427	6.7	29
956	Glycine uptake in heath plants and soil microbes responds to elevated temperature, CO2 and drought. **2009**, 35, 786-796		30
955	Full Issue in PDF / Numˆ ło complet enform PDF. **2009**, 35, i-215		
954	Rivers of the Balkans. **2009**, 421-466		29
953	Termite mounds as hot spots of nitrous oxide emissions in South-Sudanian savanna of Burkina Faso (West Africa). **2009**, 36,		15
952	Optimal Function Explains Forest Responses to Global Change. **2009**, 59, 127-139		81
951	The Energetics of Mangrove Forests. **2009**,		8

950	Protecting ecosystem services and biodiversity in the world's watersheds. **2009**, 2, 179-188	71
949	Resolving the effect of climate change on fish populations. **2009**, 66, 1570-1583	428
948	Dinitrogen Fixation in the Indian Ocean. **2009**, 167-186	14
947	Differential tree-growth responses to local and large-scale climatic variation in two Pinus and two Quercus species in northwest Spain. **2009**, 16, 299-310	46
946	Ecohydrologic process networks: 1. Identification. **2009**, 45,	121
945	Ecohydrologic process networks: 2. Analysis and characterization. **2009**, 45,	52
944	Effects of land use changes on streamflow generation in the Rhine basin. **2009**, 45,	79
943	Evidence for the predominance of denitrification as a source of N2O in temperate agricultural soils based on isotopologue measurements. **2009**, 23, n/a-n/a	61
942	Checklist of benthic marine algae and cyanobacteria of northern Portugal. **2009**, 52,	71
941	Effect of fertilisation on carbon sequestration in soybean - wheat rotation under two contrasting soils and management practices in the Indian Himalayas. **2009**, 47, 592	28
940	Carbon footprinting of lamb and beef production systems: insights from an empirical analysis of farms in Wales, UK. **2009**, 147, 707-719	65
939	Regional N₂O fluxes in Amazonia derived from aircraft vertical profiles. **2009**, 9, 8785-8797	23
938	Application of open-path spectroscopic measurement techniques (FTIR) for the up-scaling of greenhouse gas emissions from soils. **2009**,	
937	Simplified method for quantifying theoretical underestimation of chamber-based trace gas fluxes. **2010**, 39, 126-35	86
936	Determination of soil carbon stocks and changes. 49-75	7
935	Seasonal Responses of Extracellular Enzyme Activity and Microbial Biomass to Warming and Nitrogen Addition. **2010**, 74, 820-828	114
934	Grazing management contributions to net global warming potential: a long-term evaluation in the Northern Great Plains. **2010**, 39, 799-809	101
933	Carbon dioxide, methane, and nitrous oxide fluxes in soil catena across the right bank of the Oka River (Moscow oblast). **2010**, 43, 541-549	16

932	Black pine (Pinus nigra Arn.) growth divergence along a latitudinal gradient in Western Mediterranean mountains. **2010**, 67, 401-401		56
931	A tool to link agricultural activity data with the DNDC model to estimate GHG emission factors in Canada. *Agriculture, Ecosystems and Environment*, **2010**, 136, 301-309	5.7	70
930	Spatial variability in surface N2O fluxes across a riparian zone and relationships with soil environmental conditions and nutrient supply. *Agriculture, Ecosystems and Environment*, **2010**, 138, 1-9	5.7	23
929	Estimation of nitrous oxide emission from Hungarian semi-arid sandy and loess grasslands; effect of soil parameters, grazing, irrigation and use of fertilizer. *Agriculture, Ecosystems and Environment*, **2010**, 139, 255-263	5.7	44
928	Soil Respiration in Larch Forests. **2010**, 165-182		4
927	Effects of option mitigating ammonia volatilization on CH4 and N2O emissions from a paddy field fertilized with anaerobically digested cattle slurry. **2010**, 46, 589-595		26
926	Larger zooplankton in Danish lakes after cold winters: are winter fish kills of importance?. **2010**, 646, 159-172		35
925	Planning hydrological restoration of peatlands in Indonesia to mitigate carbon dioxide emissions. **2010**, 15, 223-239		58
924	Initial effects of forestry operations on N2O and vegetation dynamics in a boreal peatland buffer. **2010**, 330, 149-162		3
923	Spatial variability of N2O, CH4 and CO2 fluxes within the Xilin River catchment of Inner Mongolia, China: a soil core study. **2010**, 331, 341-359		33
922	Virtual water content of temperate cereals and maize: Present and potential future patterns. **2010**, 384, 218-231		187
921	A call to investigate drivers of soil organic matter retention vs. mineralization in a high CO2 world. **2010**, 42, 665-668		39
920	Emissions of CO2, CH4 and N2O from Southern European peatlands. **2010**, 42, 1437-1446		64
919	Soil CO2 efflux in a temperate deciduous forest: Environmental drivers and component contributions. **2010**, 42, 1685-1693		53
918	Short-term effect of increasing nitrogen deposition on CO2, CH4 and N2O fluxes in an alpine meadow on the Qinghai-Tibetan Plateau, China. **2010**, 44, 2920-2926		139
917	Littoral macroinvertebrates as indicators of lake acidification within the UK. **2010**, 20, S105-S116		33
916	Global estimates of evapotranspiration and gross primary production based on MODIS and global meteorology data. **2010**, 114, 1416-1431		351
915	Assessing uncertainties in a second-generation dynamic vegetation model caused by ecological scale limitations. **2010**, 187, 666-81		225

914	Local extinction of dragonfly and damselfly populations in low- and high-quality habitat patches. **2010**, 24, 1148-53		36
913	Responses of N2O fluxes to temperature, water table and N deposition in a northern boreal fen. **2010**, 61, 651-661		57
912	Dinitrogen and nitrous oxide exchanges from an undrained monolith fen: short-term responses following nitrate addition. **2010**, 61, 662-670		32
911	Comparison of N2O and CH4 fluxes from Pannonian natural ecosystems. **2010**, 61, 671-682		11
910	Composition and function of microbial communities during the early decomposition stages of foliar litter exposed to elevated CO2 concentrations. **2010**, 61, 914-925		9
909	Rising temperature and development in dragonfly populations at different latitudes. **2010**, 55, 397-410		43
908	The effects of elevated CO2 on root respiration rates of two Mojave Desert shrubs. *Global Change Biology*, **2010**, 16, 1566-1575	11.4	16
907	Competition modulates the adaptation capacity of forests to climatic stress: insights from recent growth decline and death in relict stands of the Mediterranean fir Abies pinsapo. **2010**, 98, 592-603		180
906	The phylogeographic architecture of the fucoid seaweed Ascophyllum nodosum: an intertidal marine tree and survivor of more than one glacial interglacial cycle. **2010**, 37, 842-856		83
905	Performance of the invasive weevil Polydrusus sericeus is influenced by atmospheric CO2 and host species. **2010**, 12, 285		10
904	Fallow Effects on Soil Carbon and Greenhouse Gas Flux in Central North Dakota. **2010**, 74, 358-365		57
903	A spatial resolution threshold of land cover in estimating terrestrial carbon sequestration in four counties in Georgia and Alabama, USA. **2010**, 7, 71-80		13
902	Short-term measurement of N2O emissions from sheep-grazed pasture receiving increasing rates of fertiliser nitrogen in Otago, New Zealand. **2010**, 50, 17		7
901	Maintaining the role of Canada's forests and peatlands in climate regulation. **2010**, 86, 434-443		58
900	Impact of cloudiness on net ecosystem exchange of carbon dioxide in different types of forest ecosystems in China. **2010**, 7, 711-722		32
899	Modeling the impact of drought on canopy carbon and water fluxes for a subtropical evergreen coniferous plantation in southern China through parameter optimization using an ensemble Kalman filter. **2010**, 7, 845-857		30
898	A global database of soil respiration data. **2010**, 7, 1915-1926		333
897	Quantifying nitrous oxide emissions from Chinese grasslands with a process-based model. **2010**, 7, 2039-2050		29

896	From biota to chemistry and climate: towards a comprehensive description of trace gas exchange between the biosphere and atmosphere. **2010**, 7, 121-149		74
895	Spatial and temporal patterns of CH₄ and N₂O fluxes in terrestrial ecosystems of North America during 19792008: application of a global biogeochemistry model. **2010**, 7, 2673-2694		130
894	A case study of eddy covariance flux of N₂O measured within forest ecosystems: quality control and flux error analysis. **2010**, 7, 427-440		41
893	Old-growth forests, carbon and climate change: Functions and management for tall open-forests in two hotspots of temperate Australia. **2010**, 144, 180-193		36
892	Incorporation and remobilization of C within the fine-root systems of individual Abies alba trees in a temperate coniferous stand. **2010**, 30, 1515-27		23
891	Carbon and water fluxes from ponderosa pine forests disturbed by wildfire and thinning. **2010**, 20, 663-83		134
890	Cold-season nitrous oxide dynamics in a drained boreal peatland differ depending on land-use practice. **2010**, 40, 565-572		16
889	Nitrous Oxide Consumption Potentials of Well-drained Forest Soils in Southern Quˆ bec, Canada. **2010**, 27, 53-60		19
888	Nitrogen enrichment and plant communities. **2010**, 1195, 46-61		90
887	Climate change impacts and vulnerability of the southern populations of Pinus nigra subsp. salzmannii. **2010**, 30, 795-806		93
886	Dragonflies and climatic change - recent trends in Germany and Europe. **2010**, 5, 253-286		45
885	Determination of leaf pigment content in Calluna vulgaris shoots from spectral reflectance. **2010**, 31, 5409-5422		15
884	Soil-atmosphere exchange potential of NO and N2O in different land use types of Inner Mongolia as affected by soil temperature, soil moisture, freeze-thaw, and drying-wetting events. **2010**, 115,		45
883	Temperature sensitivity of forest soil organic matter decomposition along two elevation gradients. **2010**, 115,		54
882	Hydrologic variability and its influence on long-term peat dynamics. **2010**, 46,		15
881	Greenhouse gases and ammonia emissions from organic mixed crop-dairy systems: a critical review of mitigation options. **2010**, 30, 215-236		47
880	Effects of short-term drying and irrigation on electron flow in mesocosms of a northern bog and an alpine fen. **2010**, 44, 80-6		30
879	Soil CO2 and N2O flux dynamics in a nitrogen-fertilized Pacific Northwest Douglas-fir stand. *Geoderma*, **2010**, 157, 118-125	6.7	33

878	Projecting the local impacts of climate change on a Central American montane avian community. **2010**, 143, 1250-1258	31
877	Late Holocene paleoecohydrology and carbon accumulation estimates from two boreal peat bogs in eastern Canada: Potential and limits of multi-proxy archives. **2010**, 291, 493-533	82
876	EFFECTS OF LAND USE CHANGE ON SURFACE WATER REGIME (CASE STUDY ORUMIEH LAKE OF IRAN). **2010**, 2, 256-261	10
875	Detrimental effect of temperature increase on the fitness of an amphibian (Lissotriton helveticus). **2010**, 36, 179-183	12
874	N2O exchange over managed grassland: Application of a quantum cascade laser spectrometer for micrometeorological flux measurements. **2010**, 150, 775-785	75
873	Multiscale estimates of N2O emissions from agricultural lands. **2010**, 150, 817-824	49
872	Season and management related changes in the diversity of nitrifying and denitrifying bacteria over winter and spring. **2010**, 44, 138-146	73
871	Determination of potential denitrification in a range of tropical topsoils using near infrared reflectance spectroscopy (NIRS). **2010**, 46, 81-89	10
870	The Impact of Climate Change on European Lakes. **2010**,	26
869	Neglecting sinks for N2O at the earth's surface: does it matter?. **2010**, 7, 79-87	30
868	Ecosystem carbon changes with woody encroachment of grassland in the northern Great Plains. **2011**, 18, 157-163	12
867	Climate change correlates with rapid delays and advancements in reproductive timing in an amphibian community. **2011**, 278, 2191-7	109
866	Net exchanges of CO2, CH4, and N2O between China's terrestrial ecosystems and the atmosphere and their contributions to global climate warming. **2011**, 116,	117
865	Heterotrophic respiration in disturbed forests: A review with examples from North America. **2011**, 116,	111
864	Biogeochemical controls on methane, nitrous oxide, and carbon dioxide fluxes from deciduous forest soils in eastern Canada. **2011**, 116,	58
863	Nitrogen enrichment and the emission of nitrous oxide from streams. **2011**, 25, n/a-n/a	84
862	Long term peatland subsidence: Experimental study and modeling scenarios in the Venice coastland. **2011**, 116,	26
861	Seasonal variation of photosynthetic model parameters and leaf area index from global Fluxnet eddy covariance data. **2011**, 116,	32

860	Biofuels, greenhouse gases and climate change. A review. **2011**, 31, 1-79		119
859	Nitrous oxide emissions from liquid biofuel production in life cycle assessment. **2011**, 3, 432-437		12
858	Thermal adaptation of net ecosystem exchange. **2011**,		1
857	Diversity, structure, and size of N(2)O-producing microbial communities in soils--what matters for their functioning?. **2011**, 75, 33-70		224
856	Denitrification hot spots: dominant role of invasive macrophyte Trapa natans in removing nitrogen from a tidal river. **2011**, 21, 3104-3114		31
855	The global nitrous oxide budget revisited. **2011**, 1, 17-26		364
854	Assessing parameter variability in a photosynthesis model within and between plant functional types using global Fluxnet eddy covariance data. **2011**, 151, 22-38		105
853	Effect of management, climate and soil conditions on N2O and NO emissions from an arable crop rotation using high temporal resolution measurements. **2011**, 151, 228-240		127
852	Effects of cloudiness change on net ecosystem exchange, light use efficiency, and water use efficiency in typical ecosystems of China. **2011**, 151, 803-816		77
851	Impacts of drought at different time scales on forest growth across a wide climatic gradient in north-eastern Spain. **2011**, 151, 1800-1811		203
850	Growth responses of West-Mediterranean Pinus nigra to climate change are modulated by competition and productivity: Past trends and future perspectives. **2011**, 262, 1030-1040		81
849	Organic matter stabilization in soil aggregates: Understanding the biogeochemical mechanisms that determine the fate of carbon inputs in soils. *Geoderma*, **2011**, 161, 182-193	6.7	99
848	Enhancing soil carbon storage for carbon remediation: potential contributions and constraints by microbes. **2011**, 19, 75-84		56
847	Fine scale variability in soil extracellular enzyme activity is insensitive to rain events and temperature in a mesic system. **2011**, 54, 141-146		37
846	Interactive effects of temperature, soil moisture and enchytraeid activities on C losses from a peatland soil. **2011**, 54, 291-299		17
845	Towards food, feed and energy crops mitigating climate change. **2011**, 16, 476-80		33
844	Direct and interaction-mediated effects of environmental changes on peatland bryophytes. **2011**, 166, 555-63		33
843	Thermal adaptation of net ecosystem exchange. **2011**, 8, 1453-1463		23

842	Finite-Element Regression to Estimate Production Profiles of Greenhouse Gases in Soils. **2011**, 10, 169-183		8
841	Coupled cycles of dissolved oxygen and nitrous oxide in rivers along a trophic gradient in southern Ontario, Canada. **2011**, 40, 256-70		38
840	Introduction to Production, Transport, and Emission of Trace Gases from the Vadose Zone to the Atmosphere. **2011**, 10, 151-155		3
839	An Initial Investigation into the Use of a Flux Chamber Technique to Measure Soil-Atmosphere Gas Exchanges from Application of Biosolids to UK Soils. **2011**, 2011, 1-10		2
838	Nitrogen processes in terrestrial ecosystems. **2009**, 99-125		67
837	Experimental nitrogen, phosphorus, and potassium deposition decreases summer soil temperatures, water contents, and soil CO₂ concentrations in a northern bog. **2011**, 8, 585-595		17
836	Climate Impacts on Agriculture: Implications for Forage and Rangeland Production. **2011**, 103, 371-381		82
835	Applicability of the soil gradient method for estimating soil–atmosphere CO2, CH4, and N2O fluxes for steppe soils in Inner Mongolia. *Journal of Plant Nutrition and Soil Science*, **2011**, 174, 359-372	2.3	32
834	The design of a space-borne multispectral canopy lidar to estimate global carbon stock and gross primary productivity. **2011**,		1
833	Assessment needs to support the development of arrangements for Payments for Ecosystem Services from tropical montane cloud forests. 671-685		3
832	Climate change and diseases of food crops. **2011**, 60, 113-121		203
831	Emission of groundwater-derived nitrous oxide into the atmosphere: model simulations based on a 15N field experiment. **2011**, 62, 216-225		13
830	Soil respiration: implications of the plant-soil continuum and respiration chamber collar-insertion depth on measurement and modelling of soil CO2 efflux rates in three ecosystems. **2011**, 62, 82-94		89
829	Importance of denitrifiers lacking the genes encoding the nitrous oxide reductase for N2O emissions from soil. *Global Change Biology*, **2011**, 17, 1497-1504	11.4	237
828	Is productivity of mesic savannas light limited or water limited? Results of a simulation study. *Global Change Biology*, **2011**, 17, 3130-3149	11.4	54
827	A test of a field-based 15N–nitrous oxide pool dilution technique to measure gross N2O production in soil. *Global Change Biology*, **2011**, 17, 3577-3588	11.4	43
826	Temperature and soil organic matter decomposition rates–synthesis of current knowledge and a way forward. *Global Change Biology*, **2011**, 17, 3392-3404	11.4	883
825	Effects of elevated atmospheric CO2, prolonged summer drought and temperature increase on N2O and CH4 fluxes in a temperate heathland. **2011**, 43, 1660-1670		33

824	Denitrification is a common feature among members of the genus Bacillus. **2011**, 34, 385-91		102
823	Is cellular automata algorithm able to predict the future dynamical shifts of tree species in Italy under climate change scenarios? A methodological approach. **2011**, 222, 925-934		18
822	Processes and factors controlling N□O production in an intensively managed low carbon calcareous soil under sub-humid monsoon conditions. **2011**, 159, 1007-16		128
821	Carbonaceous aerosol characteristics over a Pinus taeda plantation: Results from the CELTIC experiment. **2011**, 45, 794-801		8
820	Spatial variability of CH4 and N2O fluxes in alpine ecosystems on the Qinghai□Tibetan Plateau. **2011**, 45, 5632-5639		56
819	Greenhouse Gases and Ammonia Emissions from Organic Mixed Crop-Dairy Systems: A Critical Review of Mitigation Options. **2011**, 529-556		0
818	Simulating N2O fluxes from a Brazilian cropped soil with contrasted tillage practices. *Agriculture, Ecosystems and Environment*, **2011**, 140, 255-263	5.7	12
817	Nitrous oxide emissions from irrigated and fertilized spring maize in semi-arid northern China. *Agriculture, Ecosystems and Environment*, **2011**, 141, 287-295	5.7	31
816	Soil emissions of NO, N2O and CO2 from croplands in the savanna region of central Brazil. *Agriculture, Ecosystems and Environment*, **2011**, 144, 29-40	5.7	32
815	Response of the bird cherry-oat aphid (Rhopalosiphum padi) to climate change in relation to its pest status, vectoring potential and function in a crop□vector□virus pathosystem. *Agriculture, Ecosystems and Environment*, **2011**, 144, 405-421	5.7	33
814	Improving process-based estimates of N2O emissions from soil using temporally extensive chamber techniques and stable isotopes. **2011**, 91, 145-154		13
813	The invasive Australian redback spider, Latrodectus hasseltii Thorell 1870 (Araneae: Theridiidae): current and potential distributions, and likely impacts. **2011**, 13, 1003-1019		29
812	Assessing the invasive potential of the Mediterranean fruit fly in California and Italy. **2011**, 13, 2661-2676		30
811	Climatic trends and different drought adaptive capacity and vulnerability in a mixed Abies pinsapo□Pinus halepensis forest. **2011**, 105, 67-90		54
810	Nitrogen dynamics at undisturbed and burned Mediterranean shrublands of Salento Peninsula, Southern Italy. **2011**, 343, 5-15		27
809	Feedback of grazing on gross rates of N mineralization and inorganic N partitioning in steppe soils of Inner Mongolia. **2011**, 340, 127-139		43
808	Simulating soil N2O emissions and heterotrophic CO2 respiration in arable systems using FASSET and MoBiLE-DNDC. **2011**, 343, 139-160		40
807	Modelling of microbial carbon and nitrogen turnover in soil with special emphasis on N-trace gases emission. **2011**, 346, 297-330		26

806	A test of the niche dimension hypothesis in an arid annual grassland. **2011**, 166, 197-205		21
805	Maintenance of C sinks sustains enhanced C assimilation during long-term exposure to elevated [CO2] in Mojave Desert shrubs. **2011**, 167, 339-54		20
804	Effects of nutrient addition on leaf chemistry, morphology, and photosynthetic capacity of three bog shrubs. **2011**, 167, 355-68		60
803	Buffered climate change effects in a Mediterranean pine species: range limit implications from a tree-ring study. **2011**, 167, 847-59		33
802	Effects of Climate Change Drivers on Nitrous Oxide Fluxes in an Upland Temperate Grassland. **2011** , 14, 223-233		49
801	Impact of global warming on European tidal estuaries: some evidence of northward migration of estuarine fish species. **2011**, 11, 639-649		38
800	An alternative modelling approach to predict emissions of N2O and NO from forest soils. **2011**, 130, 755-773		6
799	The response of carbon dioxide exchange to manipulations of Sphagnum water content in an ombrotrophic bog. **2011**, 4, 733-743		19
798	Landscape structure, groundwater dynamics, and soil water content influence soil respiration across riparian–hillslope transitions in the Tenderfoot Creek Experimental Forest, Montana. **2011**, 25, 811-827		40
797	Exploring the relationship between groundwater geochemical factors and denitrification potentials on a dairy farm in southeast Ireland. **2011**, 37, 1304-1313		13
796	Monitoring the effect of restoration measures in Indonesian peatlands by radar satellite imagery. **2011**, 92, 630-8		31
795	Effects of Nitrogen Deposition on Ecosystem Carbon Fluxes in Sanjiang Plain Marsh of Northeastern China. **2011**, 71-78, 2957-2961		
794	Site effect is stronger than species identity in driving demographic responses of Helianthemum (Cistaceae) shrubs in gypsum environments. **2011**, 98, 1016-23		17
793	Fluxes and production pathways of nitrous oxide in different types of tropical forest soils in Thailand. **2011**, 57, 650-658		8
792	Measurement of carbon dioxide, methane, nitrous oxide, and water potential in soil ecosystems. **2011**, 496, 115-37		5
791	Use of flow management to mitigate cyanobacterial blooms in the Lower Darling River, Australia. **2011**, 33, 229-241		132
790	Formation of hybrid N2O in a suspended soil due to co-denitrification of NH2OH. *Journal of Plant Nutrition and Soil Science*, **2011**, 174, 554-567	2.3	39
789	Nitrous oxide emissions from managed grassland: a comparison of eddy covariance and static chamber measurements. **2011**, 4, 2179-2194		63

788	Nitrous oxide emissions from managed grassland: a comparison of eddy covariance and static chamber measurements. **2011**,		11
787	Nitrous Oxide from Heterogeneous Agricultural Landscapes: Source Contribution Analysis by Eddy Covariance and Chambers. **2011**, 75, 1829-1838		33
786	The effect of the predicted air temperature change on incubation temperature, incubation duration, sex ratio and hatching success of loggerhead turtles. **2011**, 61, 369-383		5
785	The "Lung": a software-controlled air accumulator for quasi-continuous multi-point measurement of agricultural greenhouse gases. **2011**, 4, 2293-2303		3
784	The "Lung": a software-controlled air accumulator for quasi-continuous multi-point measurement of agricultural greenhouse gases. **2011**,		1
783	Areal-averaged trace gas emission rates from long-range open-path measurements in stable boundary layer conditions. **2012**, 5, 1571-1583		9
782	Ecosystem services in the National Adaptation Programmes of Action. **2012**, 12, 393-409		50
781	Phenological and water-use patterns underlying maximum growing season length at the highest elevations: implications under climate change. **2012**, 32, 161-70		25
780	Sustaining agronomic productivity and quality of a Vertisolic soil (Vertisol) under soybean–safflower cropping system in semi-arid central India. **2012**, 92, 771-785		18
779	ClimateWNA—High-Resolution Spatial Climate Data for Western North America. **2012**, 51, 16-29		468
778	Quantifying Biases in Non-Steady-State Chamber Measurements of Soil–Atmosphere Gas Exchange. **2012**, 327-343		4
777	Areal-averaged trace gas emission rates from long-range open-path measurements in stable boundary layer conditions. **2012**,		1
776	Model-based assessment of ecological adaptations of three forest tree species growing in Italy and impact on carbon and water balance at national scale under current and future climate scenarios. **2012**, 5, 235-246		19
775	Global-scale pattern of peatland <i>Sphagnum</i> growth driven by photosynthetically active radiation and growing season length. **2012**, 9, 2737-2746		70
774	Long-term effects of crop residues and fertility management on carbon sequestration and agronomic productivity of groundnut–finger millet rotation on an Alfisol in southern India. **2012**, 10, 230-244		12
773	Spatial variability of nitrous oxide emissions in an unmanaged old-growth beech forest. *Journal of Plant Nutrition and Soil Science*, **2012**, 175, 739-749	2.3	8
772	Soil water regimes of reclaimed upland slopes in the oil sands region of Alberta. **2012**, 92, 117-129		15
771	Soil pH was the main controlling factor of the denitrification rates and N2/N2O emission ratios in forest and grassland soils along the Northeast China Transect (NECT). **2012**, 58, 517-525		24

770	Effects of temperature change on mussel, Mytilus. **2012**, 7, 312-327		54
769	Temporal patterns of populations in a warming world: a modelling framework. **2012**, 159, 2605-2620		8
768	Climatic impacts and drought control of radial growth and seasonal wood formation in Pinus halepensis. **2012**, 26, 1875-1886		60
767	Factors driving growth responses to drought in Mediterranean forests. **2012**, 131, 1797-1807		29
766	Production and consumption of N2O during denitrification in subtropical soils of China. *Journal of Soils and Sediments*, **2012**, 12, 1339-1349	3.4	9
765	Effect of Climate Change on Longevity and Reproduction ofSipha flava(Hemiptera: Aphididae). **2012**, 95, 433-444		7
764	Microclimatic response to increasing shrub cover and its effect on Sphagnum CO2 exchange in a bog. **2012**, 19, 89-97		22
763	Fertilizer induced nitrous oxide emissions from Vertisols and Alfisols during sweet sorghum cultivation in the Indian semi-arid tropics. *Science of the Total Environment*, **2012**, 438, 9-14	10.2	12
762	Isotopes in pyrogenic carbon: A review. **2012**, 42, 1529-1539		131
761	Elevated atmospheric CO2 alters the arthropod community in a forest understory. **2012**, 43, 80-85		14
760	Greenhouse gas emissions from rice crop with different tillage permutations in rice□wheat system. *Agriculture, Ecosystems and Environment*, **2012**, 159, 133-144	5.7	64
759	CO2 fluxes of a boreal black spruce chronosequence in eastern North America. **2012**, 153, 94-105		19
758	A review of the methods available for estimating soil moisture and its implications for water resource management. **2012**, 458-459, 110-117		226
757	Grain yield and carbon sequestration potential of post monsoon sorghum cultivation in Vertisols in the semi arid tropics of central India. *Geoderma*, **2012**, 175-176, 90-97	6.7	34
756	Strong spatial variability in trace gasdynamics following experimental drought in a humid tropical forest. **2012**, 26,		56
755	Atmospheric change alters performance of an invasive forest insect. *Global Change Biology*, **2012**, 18, 3543-3557	11.4	30
754	Responses of trace gases to hydrologic pulses in desert floodplains. **2012**, 117,		28
753	Effect of Scirpus mariqueter on nitrous oxide emissions from a subtropical monsoon estuarine wetland. **2012**, 117, n/a-n/a		11

752	Using environmental variables and soil processes to forecast denitrification potential and nitrous oxide fluxes in coastal plain wetlands across different land uses. **2012**, 117, n/a-n/a		24
751	Influence of stand age on the magnitude and seasonality of carbon fluxes in Canadian forests. **2012**, 165, 136-148		67
750	Arboreal and prostrate conifers coexisting in Mediterranean high mountains differ in their climatic responses. **2012**, 30, 279-286		25
749	Xylophagous termites: A potential sink for atmospheric nitrous oxide. **2012**, 53, 121-125		8
748	Critical carbon inputs to maintain soil organic carbon stocks under long-term finger-millet (Eleusine coracana [L.] Gaertn.) cropping on Alfisols in semiarid tropical India. *Journal of Plant Nutrition and Soil Science*, **2012**, 175, 681-688	2.3	19
747	Climate Impacts on the Baltic Sea: From Science to Policy. **2012**,		1
746	Towards Integrated Ecosystem Assessments (IEAs) of the Baltic Sea: Investigating Ecosystem State and Historical Development. **2012**, 161-199		5
745	Responses of CO2, CH4 and N2O fluxes to livestock exclosure in an alpine steppe on the Tibetan Plateau, China. **2012**, 359, 45-55		70
744	Multifactor controls on terrestrial N₂O flux over North America from 1979 through 2010. **2012**, 9, 1351-1366		30
743	A Novel Method for Quantifying Nitrous Oxide Reduction in Soil. **2012**, 11, vzj2011.0107		5
742	Budget of N₂O emissions at the watershed scale: role of land cover and topography (the Orgeval basin, France). **2012**, 9, 1085-1097		10
741	Evaluation of a closed tunnel for field-scale measurements of nitrous oxide fluxes from an unfertilized grassland soil. **2012**, 41, 1383-92		7
740	Nitrous oxide emissions from irrigated wheat in Australia: impact of irrigation management. **2012**, 359, 351-362		60
739	Land use alters the resistance and resilience of soil food webs to drought. **2012**, 2, 276-280		352
738	Expression of nitrous oxide reductase from Pseudomonas stutzeri in transgenic tobacco roots using the root-specific rolD promoter from Agrobacterium rhizogenes. **2012**, 2, 286-97		8
737	Actinobacterial nitrate reducers and proteobacterial denitrifiers are abundant in N2O-metabolizing palsa peat. **2012**, 78, 5584-96		55
736	Recent expansion of Pinus nigra Arn. above the timberline in the central Apennines, Italy. **2012**, 69, 509-517		19
735	Mapping radiation interception in row-structured orchards using 3D simulation and high-resolution airborne imagery acquired from a UAV. **2012**, 13, 473-500		53

734	Geographically structured and temporally unstable growth responses of Juniperus thurifera to recent climate variability in the Iberian Peninsula. **2012**, 131, 905-917		30
733	Growth patterns and sensitivity to climate predict silver fir decline in the Spanish Pyrenees. **2012**, 131, 1001-1012		50
732	Denitrification potential in subsoils: A mechanism to reduce nitrate leaching to groundwater. *Agriculture, Ecosystems and Environment*, **2012**, 147, 13-23	5.7	116
731	A test of biotic interactions among two alpine plant species in Australia. **2012**, 37, 90-96		0
730	Tree diversity enhances tree transpiration in a Panamanian forest plantation. **2012**, 49, 135-144		83
729	Temporal trends in N2O flux dynamics in a Danish wetland □effects of plant-mediated gas transport of N2O and O2 following changes in water level and soil mineral-N availability. *Global Change Biology*, **2012**, 18, 210-222	11.4	83
728	Residue incorporation depth is a controlling factor of earthworm-induced nitrous oxide emissions. *Global Change Biology*, **2012**, 18, 1141-1151	11.4	24
727	Soil carbon sequestration and agronomic productivity of an Alfisol for a groundnut-based system in a semiarid environment in southern India. **2012**, 43, 40-48		36
726	Evaluation of an ecosystem model for a wheat□maize double cropping system over the North China Plain. **2012**, 32, 61-73		32
725	Yield-scaled N2O emissions in a winter wheat□summer corn double-cropping system. **2012**, 55, 240-244		59
724	Soil respiration under climate change: prolonged summer drought offsets soil warming effects. *Global Change Biology*, **2012**, 18, 2270-2279	11.4	117
723	Assessing the effects of nitrogen deposition and climate on carbon isotope discrimination and intrinsic water-use efficiency of angiosperm and conifer trees under rising CO2 conditions. *Global Change Biology*, **2012**, 18, 2925-44	11.4	66
722	Recovery of ponderosa pine ecosystem carbon and water fluxes from thinning and stand-replacing fire. *Global Change Biology*, **2012**, 18, 3171-3185	11.4	125
721	Direct impacts of climatic warming on heat stress in endothermic species: seabirds as bioindicators of changing thermoregulatory constraints. **2012**, 7, 121-36		39
720	Large spatial scale effects of rising temperatures: modelling a dragonfly□ life cycle and range throughout Europe. **2012**, 5, 461-469		6
719	How do soil emissions of N2O, CH4 and CO2 from perennial bioenergy crops differ from arable annual crops?. **2012**, 4, 408-419		95
718	Reed canary grass cultivation mitigates greenhouse gas emissions from abandoned peat extraction areas. **2012**, 4, 462-474		32
717	Biogenic emissions of CO2 and N2O at multiple depths increase exponentially during a simulated soil thaw for a northern prairie Mollisol. **2012**, 45, 14-22		14

716	Soil physics meets soil biology: Towards better mechanistic prediction of greenhouse gas emissions from soil. **2012**, 47, 78-92	131
715	N2O flux from plant-soil systems in polar deserts switch between sources and sinks under different light conditions. **2012**, 48, 69-77	26
714	The effect of biochar addition on N2O and CO2 emissions from a sandy loam soil □The role of soil aeration. **2012**, 51, 125-134	298
713	Effects of flooding-induced N2O production, consumption and emission dynamics on the annual N2O emission budget in wetland soil. **2012**, 53, 9-17	26
712	N2O and CH4 fluxes in undisturbed and burned holm oak, scots pine and pyrenean oak forests in central Spain. **2012**, 107, 19-41	20
711	Drainage-induced forest growth alters belowground carbon biogeochemistry in the Mer Bleue bog, Canada. **2012**, 107, 107-123	22
710	Afforestation does not necessarily reduce nitrous oxide emissions from managed boreal peat soils. **2012**, 108, 199-218	26
709	Atmospheric change alters foliar quality of host trees and performance of two outbreak insect species. **2012**, 168, 863-76	42
708	Exchange of the Greenhouse Gases Methane and Nitrous Oxide Between the Atmosphere and a Temperate Peatland in Central Europe. **2013**, 33, 895-907	37
707	Influence of tree size, reduced competition, and climate on the growth response of Pinus nigra Arn. salzmannii after fire. **2013**, 70, 503-513	14
706	Background nitrous oxide emissions in agricultural and natural lands: a meta-analysis. **2013**, 373, 17-30	42
705	Processes leading to N2O and NO emissions from two different Chinese soils under different soil moisture contents. **2013**, 371, 611-627	23
704	Soil structure and greenhouse gas emissions: a synthesis of 20 years of experimentation. **2013**, 64, 357-373	154
703	Biomass Yield and Greenhouse Gas Emissions from a Drained Fen Peatland Cultivated with Reed Canary Grass under Different Harvest and Fertilizer Regimes. **2013**, 6, 883-895	29
702	Radial growth variations of black pine along an elevation gradient in the Cazorla Mountains (South of Spain) and their relevance for historical and environmental studies. **2013**, 132, 635-652	13
701	PK additions modify the effects of N dose and form on species composition, species litter chemistry and peat chemistry in a Scottish peatland. **2013**, 116, 39-53	5
700	Carbon input manipulation affects soil respiration and microbial community composition in a subtropical coniferous forest. **2013**, 178-179, 152-160	90
699	Interactive Effects of Elevated CO2, Drought, and Warming on Plants. **2013**, 32, 692-707	76

698	Review of denitrification in tropical and subtropical soils of terrestrial ecosystems. *Journal of Soils and Sediments*, **2013**, 13, 699-710	3.4	51
697	Impact of short-interval, repeat application of dicyandiamide on soil N transformation in urine patches. *Agriculture, Ecosystems and Environment*, **2013**, 167, 60-70	5.7	34
696	Carbon and water fluxes in an arid-zone Acacia savanna woodland: An analyses of seasonal patterns and responses to rainfall events. **2013**, 182-183, 225-238		101
695	N-driven changes in a plant community affect leaf-litter traits and may delay organic matter decomposition in a Mediterranean maquis. **2013**, 58, 163-171		25
694	Carbon in Canada□ boreal forest □A synthesis. **2013**, 21, 260-292		170
693	Evaluation of mechanisms controlling the priming of soil carbon along a substrate age gradient. **2013**, 58, 293-301		46
692	Prevalence of pink-footed goose grubbing in the arctic tundra increases with population expansion. **2013**, 36, 1569-1575		18
691	The unaccounted yet abundant nitrous oxide-reducing microbial community: a potential nitrous oxide sink. **2013**, 7, 417-26		369
690	The effect of soil aggregate size on pore structure and its consequence on emission of greenhouse gases. **2013**, 132, 39-46		78
689	The potential of organic fertilizers and water management to reduce N2O emissions in Mediterranean climate cropping systems. A review. *Agriculture, Ecosystems and Environment*, **2013**, 164, 32-52	5.7	222
688	On the canopy structure manipulation to buffer climate change effects on insect herbivore development. **2013**, 27, 239-248		15
687	Influence of drought on tree rings and tracheid features of Pinus nigra and Pinus sylvestris in a mesic Mediterranean forest. **2013**, 132, 33-45		112
686	Faunal differences between the invasive brown macroalga Sargassum muticum and competing native macroalgae. **2013**, 15, 171-183		30
685	Earthworms can increase nitrous oxide emissions from managed grassland: A field study. *Agriculture, Ecosystems and Environment*, **2013**, 174, 40-48	5.7	19
684	Baltic cod (Gadus morhua callarias) recovery potential under different environment and fishery scenarios. **2013**, 266, 118-125		4
683	Monsoon rains, drought periods and soil texture as drivers of soil N2O fluxes □Soil drought turns East Asian temperate deciduous forest soils into temporary and unexpectedly persistent N2O sinks. **2013**, 57, 273-281		9
682	Wildfire and fuel treatment effects on forest carbon dynamics in the western United States. **2013**, 303, 46-60		27
681	The effect of planting density on carbon dioxide, methane and nitrous oxide emissions from a cold paddy field in the Sanjiang Plain, northeast China. *Agriculture, Ecosystems and Environment*, **2013**, 178, 64-70	5.7	15

680	Greenhouse gas fluxes (CO2, N2O and CH4) from forest soils in the Basque Country: Comparison of different tree species and growth stages. **2013**, 310, 600-611		16
679	Climate change reduces the net sink of CH4 and N2O in a semiarid grassland. *Global Change Biology* , **2013**, 19, 1816-26	11.4	76
678	Processes in Living Structures. **2013**, 43-223		2
677	N2O consumption by low-nitrogen soil and its regulation by water and oxygen. **2013**, 60, 165-172		52
676	Recent acceleration of carbon accumulation in a boreal peatland, south central Alaska. **2013**, 118, 41-53		50
675	Soil invertebrate fauna affect N2 O emissions from soil. *Global Change Biology*, **2013**, 19, 2814-25	11.4	36
674	Summertime fluxes of N2O, CH4 and CO2 from the littoral zone of Lake Daming, East Antarctica: effects of environmental conditions. **2013**, 25, 752-762		13
673	Greenhouse gas fluxes in an open air humidity manipulation experiment. **2013**, 28, 637-649		22
672	Long-term enhanced nitrogen deposition increases ecosystem respiration and carbon loss from a Sphagnum bog in the Scottish Borders. **2013**, 90, 53-61		18
671	An estimate of the global sink for nitrous oxide in soils. *Global Change Biology*, **2013**, 19, 2929-31	11.4	69
670	Sustainable Management of Soils of Dryland Ecosystems of India for Enhancing Agronomic Productivity and Sequestering Carbon. **2013**, 121, 253-329		63
669	Biogeochemistry of N2O Uptake and Consumption in Submerged Soils and Rice Fields and Implications in Climate Change. **2013**, 43, 2653-2684		22
668	Formation and Release of Nitrous Oxide from Terrestrial and Aquatic Ecosystems. **2013**, 63-96		3
667	Forest water use and water use efficiency at elevated CO2 : a model-data intercomparison at two contrasting temperate forest FACE sites. *Global Change Biology*, **2013**, 19, 1759-79	11.4	271
666	Using stable isotopes to follow excreta N dynamics and N2O emissions in animal production systems. **2013**, 7 Suppl 2, 418-26		6
665	Holocene peatland carbon dynamics in Patagonia. **2013**, 69, 125-141		38
664	Design of store-release covers to minimize deep drainage in the mining and waste-disposal industries: results from a modelling analyses based on ecophysiological principles. **2013**, 27, 3815-3824		4
663	Global change-type drought-induced tree mortality: vapor pressure deficit is more important than temperature per se in causing decline in tree health. **2013**, 3, 2711-29		120

662	Decadal time series of tropospheric abundance of N2O isotopomers and isotopologues in the Northern Hemisphere obtained by the long-term observation at Hateruma Island, Japan. **2013**, 118, 3369-3381	32
661	Performance of four mosses in a reciprocal transplant experiment: implications for peatland succession in NE China. **2013**, 35, 220-227	11
660	Increased methane uptake but unchanged nitrous oxide flux in montane grasslands under simulated climate change conditions. **2013**, 64, 586-596	24
659	Thermal adaptation affects interactions between a range-expanding and a native odonate species. **2013**, 58, 705-714	18
658	N2O fluxes of a bio-energy poplar plantation during a two years rotation period. **2013**, 5, 536-547	39
657	On the potential of δ18O and δ15N to assess N2O reduction to N2 in soil. **2013**, 64, 610-620	12
656	Thinning effects on forest productivity: consequences of preserving old forests and mitigating impacts of fire and drought. **2013**, 6, 73-85	18
655	Biogeochemistry - Pages 491-664. **2013**, 491-664	
654	Biochar diminishes nitrous oxide and nitrate leaching from diverse nutrient sources. **2013**, 42, 672-82	47
653	Hydrologic profiling for greenhouse gas effluxes from natural grasslands in the prairie pothole region of Canada. **2013**, 118, 680-697	16
652	Impacts of Cultivation and Fallow Length on Soil Carbon and Nitrogen Availability in the Bolivian Andean Highland Region. **2013**, 33, 391-403	13
651	Patterns of biodiversity in the northwestern Italian Alps: a multi-taxa approach. **2013**, 14, 18-30	41
650	Detection of large above-ground biomass variability in lowland forest ecosystems by airborne LiDAR. **2013**, 10, 3917-3930	33
649	Simulation of Nitrous Oxide Emissions and Estimation of Global Warming Potential in Turfgrass Systems Using the DAYCENT Model. **2013**, 42, 1100-8	25
648	Sensitivity of soil respiration to moisture and temperature. **2013**, 0-0	11
647	Quantifying soil carbon stocks and greenhouse gas fluxes in the sugarcane agrosystem: point of view. **2013**, 70, 361-368	16
646	Net primary productivity, allocation pattern and carbon use efficiency in an apple orchard assessed by integrating eddy covariance, biometric and continuous soil chamber measurements. **2013**, 10, 3089-3108	51
645	Large-chamber methane and nitrous oxide measurements are comparable to the backward lagrangian stochastic method. **2013**, 42, 1643-51	2

644	The Effects of Land-Use Change from Grassland to Miscanthus x giganteus on Soil N2O Emissions. **2013**, 2, 437-451	10
643	Nitrous oxide emissions in agricultural soils: a review. **2013**, 43, 322-338	124
642	Soil CO₂ CH₄ and N₂O fluxes from an afforested lowland raised peatbog in Scotland: implications for drainage and restoration. **2013**, 10, 1051-1065	30
641	Soil Bulk Density and Moisture Content Influence Relative Gas Diffusivity and the Reduction of Nitrogen-15 Nitrous Oxide. **2014**, 13, vzj2014.07.0089	18
640	Nitrous oxide emissions from maize□wheat field during 4 successive years in the North China Plain. **2014**, 11, 1717-1726	29
639	Vegetation types alter soil respiration and its temperature sensitivity at the field scale in an estuary wetland. **2014**, 9, e91182	28
638	Nitrous oxide emission budgets and land-use-driven hotspots for organic soils in Europe. **2014**, 11, 6595-6612	47
637	The Extent of Soil Drying and Rewetting Affects Nitrous Oxide Emissions, Denitrification, and Nitrogen Mineralization. **2014**, 78, 194-204	43
636	Methane and nitrous oxide exchange over a managed hay meadow. **2014**, 11, 7219-7236	24
635	Potential Vulnerability of Deep Carbon Deposits of Forested Swamps to Drought. **2014**, 78, 1097-1107	7
634	Soil greenhouse gas fluxes from different tree species on Taihang Mountain, North China. **2014**, 11, 1649-1666	24
633	High temporal frequency measurements of greenhouse gas emissions from soils. **2014**, 11, 2709-2720	74
632	N₂O, NO, N₂ and CO₂ emissions from tropical savanna and grassland of northern Australia: an incubation experiment with intact soil cores. **2014**, 11, 6047-6065	17
631	Nitrous oxide and methane emissions from cultivated seasonal wetland (dambo) soils with inorganic, organic and integrated nutrient management. **2014**, 100, 161-175	23
630	Effect of plant-mediated oxygen supply and drainage on greenhouse gas emission from a tropical peatland in Central Kalimantan, Indonesia. **2014**, 60, 216-230	17
629	Flood risk and climate change: global and regional perspectives. **2014**, 59, 1-28	698
628	Investigating uptake of N₂O in agricultural soils using a high-precision dynamic chamber method. **2014**, 7, 4455-4462	24
627	Comparison of three models for simulating N2O emissions from paddy fields under water-saving irrigation. **2014**, 98, 500-509	12

626	Investigating uptake of N₂O in agricultural soils using a high-precision dynamic chamber method. **2014**,		1
625	Site and Age Condition the Growth Responses to Climate and Drought of RelictPinus nigraSubsp.salzmanniiPopulations in Southern Spain. **2014**, 70, 145-155		11
624	Methane and nitrous oxide emissions from flooded rice fields as affected by water and straw management between rice crops. *Geoderma*, **2014**, 235-236, 355-362	6.7	79
623	Replicated throughfall exclusion experiment in an Indonesian perhumid rainforest: wood production, litter fall and fine root growth under simulated drought. *Global Change Biology*, **2014**, 20, 1481-97	11.4	39
622	Pathway of nitrous oxide consumption in isolated Pseudomonas stutzeri strains under anoxic and oxic conditions. **2014**, 16, 3143-52		23
621	Plant species identity surpasses species richness as a key driver of N(2)O emissions from grassland. *Global Change Biology*, **2014**, 20, 265-75	11.4	79
620	Habitat-dependent interactive effects of a heatwave and experimental fertilization on the vegetation of an alpine mire. **2014**, 25, 427-438		5
619	Emissions of CO2 and N2O from a pasture soil from Madagascar□simulating conversion to direct-seeding mulch-based cropping in incubations with organic and inorganic inputs. *Journal of Plant Nutrition and Soil Science*, **2014**, 177, 360-368	2.3	6
618	A database and synthesis of northern peatland soil properties and Holocene carbon and nitrogen accumulation. **2014**, 24, 1028-1042		276
617	Effects of green manure storage and incorporation methods on nitrogen release and N2O emissions after soil application. **2014**, 50, 1233-1246		24
616	Carbon Footprint Estimation in the Agriculture Sector. **2014**, 25-47		26
615	LONG-TERM MANURING AND FERTILIZER EFFECTS ON DEPLETION OF SOIL ORGANIC CARBON STOCKS UNDER PEARL MILLET-CLUSTER BEAN-CASTOR ROTATION IN WESTERN INDIA. **2014**, 25, 173-183		131
614	Spatial heterogeneity of soil CO2 efflux after harvest and prescribed fire in a California mixed conifer forest. **2014**, 319, 150-160		27
613	Nitrous oxide fluxes in undisturbed riparian wetlands located in agricultural catchments: Emission, uptake and controlling factors. **2014**, 68, 291-299		52
612	Soil N2O Emissions from Recovered Organic Waste Application in Versailles Plain (France): A Laboratory Approach. **2014**, 5, 515-527		4
611	Do cover crops enhance N□O, CO□r CH□emissions from soil in Mediterranean arable systems?. *Science of the Total Environment*, **2014**, 466-467, 164-74	10.2	90
610	Effect of land use on the denitrification, abundance of denitrifiers, and total nitrogen gas production in the subtropical region of China. **2014**, 50, 105-113		33
609	Spatial and temporal variations of nitrous oxide flux between coastal marsh and the atmosphere in the Yellow River estuary of China. **2014**, 21, 419-33		21

608	Comparison of methane, nitrous oxide fluxes and CO2 respiration rates from a Mediterranean cork oak ecosystem and improved pasture. **2014**, 374, 883-898		16
607	Crop-pasture rotation: A strategy to reduce soil greenhouse gas emissions in the Brazilian Cerrado. *Agriculture, Ecosystems and Environment*, **2014**, 183, 167-175	5.7	64
606	Topography as a key factor driving atmospheric nitrogen exchanges in arctic terrestrial ecosystems. **2014**, 70, 96-112		57
605	A new statistical framework for the quantification of covariate associations with species distributions. **2014**, 5, 421-432		28
604	Atmospheric change alters frass quality of forest canopy herbivores. **2014**, 8, 33-47		12
603	Microbial functional genes involved in nitrogen fixation, nitrification and denitrification in forest ecosystems. **2014**, 75, 11-25		319
602	Warming-induced enhancement of soil N2O efflux linked to distinct response times of genes driving N2O production and consumption. **2014**, 119, 371-386		20
601	Site-specific 15N isotopic signatures of abiotically produced N2O. **2014**, 139, 72-82		87
600	Promoting biological control in a rapidly changing world. **2014**, 75, 1-7		27
599	Conservation agriculture and ecosystem services: An overview. *Agriculture, Ecosystems and Environment*, **2014**, 187, 87-105	5.7	447
598	Transferable denitrification capability of Thermus thermophilus. **2014**, 80, 19-28		30
597	Earthworms reduce soil nitrous oxide emissions during drying and rewetting cycles. **2014**, 68, 117-124		27
596	Inertia in an ombrotrophic bog ecosystem in response to 9´years' realistic perturbation by wet deposition of nitrogen, separated by form. *Global Change Biology*, **2014**, 20, 566-80	11.4	26
595	Recently identified microbial guild mediates soil N2O sink capacity. **2014**, 4, 801-805		245
594	Three-year measurements of nitrous oxide emissions from cotton and wheatmaize rotational cropping systems. **2014**, 96, 201-208		22
593	Grazing exclusion effects on above- and below-ground C and N pools of typical grassland on the Loess Plateau (China). **2014**, 123, 113-120		61
592	Aleppo pine vulnerability to climate stress is independent of site productivity of forest stands in southeastern Spain. **2014**, 28, 1209-1224		12
591	Growing season nitrous oxide fluxes across a 125+ year harvested red spruce forest chronosequence. **2014**, 120, 225-238		11

590	Summertime N2O, CH4 and CO2 exchanges from a tundra marsh and an upland tundra in maritime Antarctica. **2014**, 83, 269-281		18
589	Determination of potential N2O-reductase activity in soil. **2014**, 70, 205-210		15
588	Long-term natural succession improves nitrogen storage capacity of soil on the Loess Plateau, China. **2014**, 52, 262		28
587	Tidal pulsing alters nitrous oxide fluxes in a temperate intertidal mudflat. **2014**, 95, 1960-71		14
586	Hydrological response to land use and land cover changes in a sub-watershed of West Liaohe River Basin, China. **2014**, 6, 678-689		13
585	Effect of litter layer on soil□tmosphere N2O flux of a subtropical pine plantation in China. **2014**, 82, 106-112		16
584	Tillage and nitrogen fertilization effects on nitrous oxide yield-scaled emissions in a rainfed Mediterranean area. *Agriculture, Ecosystems and Environment*, **2014**, 189, 43-52	5.7	71
583	Carbon mineralization kinetics in soils under urban environment. **2014**, 73, 64-69		26
582	Baseline soil gas measurements as part of a monitoring concept above a projected CO2 injection formation□ A case study from Northern Germany. **2014**, 20, 57-72		19
581	Biochar's role in mitigating soil nitrous oxide emissions: A review and meta-analysis. *Agriculture, Ecosystems and Environment*, **2014**, 191, 5-16	5.7	564
580	Influence of soil moisture on the seasonality of nitric oxide emissions from chaparral soils, Sierra Nevada, California, USA. **2014**, 103, 46-52		26
579	Review and analysis of global agricultural N□O emissions relevant to the UK. *Science of the Total Environment*, **2014**, 487, 164-72	10.2	31
578	Direct N2O emissions from a Mediterranean vineyard: Event-related baseline measurements. *Agriculture, Ecosystems and Environment*, **2014**, 195, 44-52	5.7	19
577	Contribution of diazotrophy to nitrogen inputs supporting Karenia brevis blooms in the Gulf of Mexico. **2014**, 38, 20-29		19
576	Temperature and moisture affect methane and nitrous oxide emission from bovine manure patches in tropical conditions. **2014**, 76, 242-248		40
575	Soil fluxes of methane, nitrous oxide, and nitric oxide from aggrading forests in coastal Oregon. **2014**, 76, 268-277		11
574	Surface soil fungal and bacterial communities in aspen stands are resilient to eleven years of elevated CO2 and O3. **2014**, 76, 227-234		21
573	CH4 and N2O dynamics of a Larix gmelinii forest in a continuous permafrost region of central Siberia during the growing season. **2014**, 8, 156-165		9

572	Metabolic acceleration quantifies biological systems' ability to up-regulate metabolism in response to episodic resource availability. **2014**, 104, 9-16		5
571	Climate change impacts on groundwater and dependent ecosystems. **2014**, 518, 250-266		318
570	Fertilizer Management, Parent Material, and Stand Age Influence Forest Soil Greenhouse Gas Fluxes. **2014**, 78, 2041-2053		6
569	Taxonomic uncertainty in pest risks or modelling artefacts? Implications for biosecurity policy and practice. **2014**, 23, 81-93		6
568	Nitrous Oxide Fluxes in Fertilized L. Plantations across a Gradient of Soil Drainage Classes. **2014**, 43, 1823-32		7
567	Differential response of carbon fluxes to climate in three peatland ecosystems that vary in the presence and stability of permafrost. **2014**, 119, 1576-1595		72
566	The impacts of climate change on Australian and New Zealand flora and fauna. 65-82		2
565	Hydrological Control of Greenhouse Gas Fluxes in a Sierra Nevada Subalpine Meadow. **2014**, 46, 355-364		4
564	Land husbandry: an agro-ecological approach to land use and management Part 1: Considerations of landscape conditions. **2014**, 2, 22-35		3
563	Elevated carbon dioxide and ozone have weak, idiosyncratic effects on herbivorous forest insect abundance, species richness, and community composition. **2014**, 7, 553-562		10
562	A potential tipping point in tropical agriculture: Avoiding rapid increases in nitrous oxide fluxes from agricultural intensification in Kenya. **2015**, 120, 938-951		40
561	Methane and nitrous oxide fluxes in relation to vegetation covers and bird activity in ice-free soils of Rip Point, Nelson Island, Antarctica. **2015**, 34, 23584		2
560	Does metal pollution matter with C retention by rice soil?. *Scientific Reports*, **2015**, 5, 13233	4.9	12
559	Spatial decoupling of soil nitrogen cycling in an arid chenopod pattern ground. **2015**, 53, 97		3
558	What happens to soil organic carbon as coastal marsh ecosystems change in response to increasing salinity? An exploration using ramped pyrolysis. **2015**, 16, 2322-2335		21
557	Slow Recovery of Mire Vegetation from Environmental Perturbations Caused by a Heat Wave and Experimental Fertilization. **2015**, 35, 769-782		5
556	Pasture-derived greenhouse gas emissions in cow-calf production systems. **2015**, 93, 1350-64		10
555	Vascular Plant Diversity and Community Structure of Nandi Forests, Western Kenya. **2015**, 103, 125-152		5

554	Attributing forest responses to global-change drivers: limited evidence of a CO2-fertilization effect in Iberian pine growth. **2015**, 42, 2220-2233		71
553	Estimating of gross primary production in an Amazon-Cerrado transitional forest using MODIS and Landsat imagery. **2015**, 87, 1545-64		9
552	VARIAˆ ÕD SAZONAL DA POPULAˆ ÕD DE BACTˆ RIAS E FUNGOS E DOS TEORES DE NITRATO E AMˆ NIO DO SOLO NOS Sˆ TIOS DO LBA E PPBIO, NA AMAZˆ NIA ORIENTAL. **2015**, 30, 265-274		1
551	Modelling Mediterranean agro-ecosystems by including agricultural trees in the LPJmL model. **2015**, 8, 3545-3561		21
550	Soil Water Potential Control of the Relationship between Moisture and Greenhouse Gas Fluxes in Corn-Soybean Field. **2015**, 3, 689-696		2
549	Soil N2O fluxes along an elevation gradient of tropical montane forests under experimental nitrogen and phosphorus addition. **2015**, 3,		23
548	Quantifying components of soil respiration and their response to abiotic factors in two typical subtropical forest stands, southwest China. **2015**, 10, e0117490		10
547	Denitrification activity of a remarkably diverse fen denitrifier community in finnish lapland is N-oxide limited. **2015**, 10, e0123123		27
546	BIOCHAR: PYROGENIC CARBON FOR AGRICULTURAL USE - A CRITICAL REVIEW. **2015**, 39, 321-344		105
545	Eddy covariance for quantifying trace gas fluxes from soils. **2015**, 1, 187-205		43
544	Impacts of urea deep placement on nitrous oxide and nitric oxide emissions from rice fields in Bangladesh. *Geoderma*, **2015**, 259-260, 370-379	6.7	73
543	Moving Beyond Global Warming Potentials to Quantify the Climatic Role of Ecosystems. **2015**, 18, 1000-1013		265
542	Vulnerability proxy selection and risk calculation formula for global flood risk assessment: a preliminary study. **2015**, 17, 8-25		7
541	Patterns of energy exchange for tropical ecosystems across a climate gradient in Mato Grosso, Brazil. **2015**, 202, 112-124		42
540	Exotic Spartina alterniflora invasion alters ecosystem-atmosphere exchange of CH4 and N2O and carbon sequestration in a coastal salt marsh in China. *Global Change Biology*, **2015**, 21, 1567-80	11.4	98
539	Multi-century long density chronology of living and sub-fossil trees from Lake Schwarzensee, Austria. **2015**, 33, 42-53		10
538	Plant diversity effects on soil microbial functions and enzymes are stronger than warming in a grassland experiment. **2015**, 96, 99-112		103
537	Abiotic dissolution and biological uptake of nitrous oxide in Mediterranean woodland and pasture soil. **2015**, 82, 62-64		9

536	Identification of key marine areas for conservation based on satellite tracking of post-nesting migrating green turtles (Chelonia mydas). **2015**, 184, 36-41		35
535	Nitrous oxide emissions from cool-season pastures under managed grazing. **2015**, 101, 365-376		16
534	Nitrous oxide fluxes in estuarine environments: response to global change. *Global Change Biology*, **2015**, 21, 3219-45	11.4	111
533	Nitrous oxide and methane emissions from a vetch cropping season are changed by long-term tillage practices in a Mediterranean agroecosystem. **2015**, 51, 77-88		16
532	Impact of elevated CO2on growth, development, and reproduction of the wolf spider,Pardosa astrigera(Araneae: Lycosidae). **2015**, 43, 86-89		5
531	The effects of catena positions on greenhouse gas emissions along a seasonal wetland (dambo) transect in tropical Zimbabwe. **2015**, 61, 203-221		5
530	Microbial regulation of terrestrial nitrous oxide formation: understanding the biological pathways for prediction of emission rates. **2015**, 39, 729-49		341
529	A multi-proxy peat study of Holocene vegetation history, bog development, and carbon accumulation on northern Vancouver Island, Pacific coast of Canada. **2015**, 25, 1165-1178		13
528	Emulating global climate change impacts on crop yields. **2015**, 15, 499-525		23
527	Inter-annual variability of precipitation constrains the production response of boreal Pinus sylvestris to nitrogen fertilization. **2015**, 348, 31-45		60
526	Abiotic nitrous oxide production from hydroxylamine in soils and their dependence on soil properties. **2015**, 84, 107-115		76
525	Tree-rings, forest history and cultural heritage: current state and future prospects of dendroarchaeology in the Iberian Peninsula. **2015**, 57, 180-196		15
524	Spartina alterniflora invasions impact CH4 and N2O fluxes from a salt marsh in eastern China. **2015**, 81, 192-199		21
523	Relationship of convective precipitation with atmospheric heat flux □A regression approach over an Indian tropical location. **2015**, 161-162, 116-124		18
522	Effects of elevated atmospheric CO2 concentration and temperature on the soil profile methane distribution and diffusion in rice-wheat rotation system. **2015**, 32, 62-71		16
521	What drives growth of Scots pine in continental Mediterranean climates: Drought, low temperatures or both?. **2015**, 206, 151-162		62
520	Review of greenhouse gas emissions from the storage and land application of farm dairy effluent. **2015**, 58, 203-233		20
519	Nitrous oxide emissions along a gradient of tropical forest disturbance on mineral soils in Sumatra. *Agriculture, Ecosystems and Environment*, **2015**, 214, 107-117	5.7	22

518	Nitrous oxide production and consumption by denitrification in a grassland: Effects of grazing and hydrology. *Science of the Total Environment*, **2015**, 532, 702-10	10.2	15
517	The space-time continuum: the effects of elevated CO2 and temperature on trees and the importance of scaling. **2015**, 38, 991-1007		76
516	Nitrous Oxide and Carbon Dioxide Emissions During the Nongrowing Season from Manured Soils under Rainfed and Irrigated Conditions. **2015**, 32, 648-654		9
515	Proximate controls on semiarid soil greenhouse gas fluxes across 3 million years of soil development. **2015**, 125, 375-391		2
514	Disentangling the effects of competition and climate on individual tree growth: A retrospective and dynamic approach in Scots pine. **2015**, 358, 12-25		78
513	Bioenergy driven land use change impacts on soil greenhouse gas regulation under Short Rotation Forestry. **2015**, 82, 40-48		13
512	Net ecosystem carbon balance of an apple orchard. **2015**, 63, 97-104		31
511	Managing fertiliser nitrogen to reduce nitrous oxide emissions and emission intensities from a cultivated Cambisol in Scotland. *Geoderma Regional*, **2015**, 4, 55-65	2.7	24
510	Denitrification at two nitrogen-polluted, ombrotrophic Sphagnum bogs in Central Europe: Insights from porewater N2O-isotope profiles. **2015**, 81, 48-57		11
509	N2O and CH4 emissions from a fallow-wheat rotation with low N input in conservation and conventional tillage under a Mediterranean agroecosystem. *Science of the Total Environment*, **2015**, 508, 85-94	10.2	46
508	The effect of the nitrification inhibitor dicyandiamide (DCD) on nitrous oxide and methane emissions after cattle slurry application to Irish grassland. *Agriculture, Ecosystems and Environment*, **2015**, 199, 339-349	5.7	29
507	Contribution of mangroves to coastal carbon cycling in low latitude seas. **2015**, 213, 266-272		74
506	Soil nitrous oxide emissions as affected by long-term tillage, cropping systems and nitrogen fertilization in Southern Brazil. **2015**, 146, 213-222		61
505	Simulation of watershed hydrology and stream water quality under land use and climate change scenarios in Teshio River watershed, northern Japan. **2015**, 50, 79-89		119
504	The use of additives and fuel blending to reduce emissions from the combustion of agricultural fuels in small scale boilers. **2015**, 129, 127-133		20
503	Comparing N2O fluxes from recently created extensive grasslands and sites remaining under intensive agricultural management. *Agriculture, Ecosystems and Environment*, **2015**, 199, 77-84	5.7	7
502	Trace gas fluxes from a Northern mixed-grass prairie interseeded with Alfalfa. **2015**, 386, 285-301		2
501	Quantifying nitrous oxide fluxes on multiple spatial scales in the Upper Midwest, USA. **2015**, 59, 299-310		8

500	Biogeochemical and biological impacts of diazotroph blooms in a low-nutrient, low-chlorophyll ecosystem: synthesis from the VAHINE mesocosm experiment (New Caledonia). **2016**, 13, 4461-4479		7
499	HYDROLOGICAL ASSESSMENTS OF SOME RIVERS IN EDO STATE, NIGERIA FOR SMALL-SCALE HYDROPOWER DEVELOPMENT. **2016**, 35, 656		4
498	Changes in Water-Extractable Organic Carbon with Cover Crop Planting under Continuous Corn Silage Production. **2016**, 9, ASWR.S30708		6
497	Dynamics of N₂ fixation and fate of diazotroph-derived nitrogen in a low-nutrient, low-chlorophyll ecosystem: results from the VAHINE mesocosm experiment (New Caledonia). **2016**, 13, 2653-2673		41
496	Greenhouse gas emissions from fen soils used for forage production in northern Germany. **2016**, 13, 5221-5244		23
495	Examining the provenance of branched GDGTs in the Tagus River drainage basin and its outflow into the Atlantic Ocean over the Holocene to determine their usefulness for paleoclimate applications. **2016**, 13, 5719-5738		15
494	Fluxos de ˆ □xido nitroso e suas relaˆ □ µes com atributos fˆ ßicos e quˆ ßmicos do solo. **2016**, 51, 1148-1155		3
493	Streamflow Response to Climate Variability and Land-Cover Changes in the River Beˆ ß Watershed, Northern Portugal. **2016**,		2
492	Mediterranean irrigation under climate change: more efficient irrigation needed to compensate for increases in irrigation water requirements. **2016**, 20, 953-973		97
491	Sediment Nitrous Oxide Fluxes Are Dominated by Uptake in a Temperate Estuary. **2016**, 3,		17
490	Seasonal Variation in Soil Greenhouse Gas Emissions at Three Age-Stages of Dawn Redwood (Metasequoia glyptostroboides) Stands in an Alluvial Island, Eastern China. **2016**, 7, 256		5
489	Soil carbon dioxide effluxes from different vegetation environments in semi-arid Eastern Cape, South Africa. **2016**, 33, 111-118		2
488	Transcriptional and metabolic regulation of denitrification in Paracoccus denitrificans allows low but significant activity of nitrous oxide reductase under oxic conditions. **2016**, 18, 2951-63		37
487	Soil-plant-atmosphere conditions regulating convective cloud formation above southeastern US pine plantations. *Global Change Biology*, **2016**, 22, 2238-54	11.4	27
486	Gross nitrous oxide production drives net nitrous oxide fluxes across a salt marsh landscape. *Global Change Biology*, **2016**, 22, 2228-37	11.4	29
485	Disentangling gross NO production and consumption in soil. *Scientific Reports*, **2016**, 6, 36517	4.9	23
484	Global-Change Drought and Forest Mortality. 484-512		
483	The responses of a funnel-web weaving spider, Agelena labyrinthica, to elevated CO2 concentration. **2016**, 161, 213-218		2

482	Loess Plateau check dams can potentially sequester eroded soil organic carbon. **2016**, 121, 1449-1455		14
481	Chemical formation of hybrid di-nitrogen calls fungal codenitrification into question. *Scientific Reports*, **2016**, 6, 39077	4.9	16
480	CO2 uptake is offset by CH4 and N2O emissions in a poplar short-rotation coppice. **2016**, 8, 524-538		21
479	Improving fertilizer management in the U.S. and Canada for N2O mitigation: Understanding potential positive and negative side-effects on corn yields. *Agriculture, Ecosystems and Environment*, **2016**, 221, 214-221	5.7	44
478	Impact of dicyandiamide on emissions of nitrous oxide, nitric oxide and ammonia from agricultural field in the North China Plain. **2016**, 40, 20-7		13
477	Optimization of a biochemical model with eddy covariance measurements in black spruce forests of Alaska for estimating CO2 fertilization effects. **2016**, 222, 98-111		16
476	Nitrous Oxide Reduction Kinetics Distinguish Bacteria Harboring Clade I NosZ from Those Harboring Clade II NosZ. **2016**, 82, 3793-800		88
475	Quantum Cascade Laser Measurements of Line Intensities, N2-, O2- and Ar- Collisional Broadening Coefficients of N2O in the Band Near 4.5 μm. **2016**, 70, 972-82		5
474	Greenhouse gas emissions from soils A review. **2016**, 76, 327-352		423
473	Carbon limitation of sediment bacterial production and denitrification in high nitrate low carbon systems. **2016**, 75, 1		8
472	Soil N2O emissions from long-term agroecosystems: Interactive effects of rainfall seasonality and crop rotation in the Brazilian Cerrado. *Agriculture, Ecosystems and Environment*, **2016**, 233, 111-120	5.7	14
471	Soil N Losses by Denitrification Evaluated Using the 15N Tracer Method. **2016**, 47, 1709-1719		
470	Fingerprint natural soil N2O emission from nitration and denitrification by dual isotopes (15N and 18O) and site preferences. **2016**, 36, 356-360		1
469	Drainage, no-tillage and crop rotation decreases annual cumulative emissions of methane and nitrous oxide from a rice field in Southwest China. *Agriculture, Ecosystems and Environment*, **2016**, 233, 270-281	5.7	19
468	Non-denitrifying nitrous oxide-reducing bacteria - An effective N2O sink in soil. **2016**, 103, 376-379		61
467	Increased N2O emissions during soil drying after waterlogging and spring thaw in a record wet year. **2016**, 101, 152-164		28
466	Model testing for nitrous oxide (N2O) fluxes from Amazonian cattle pastures. **2016**, 143, 67-78		4
465	Nitrogen fertilization of Miscanthus x giganteus: effects on nitrogen uptake, growth, yield and emissions from biomass combustion. **2016**, 106, 249-256		9

464	Assessment of nitrogen losses through nitrous oxide from abattoir wastewater-irrigated soils. **2016**, 23, 22633-22646		6
463	Modelling nitrous oxide emissions from mown-grass and grain-cropping systems: Testing and sensitivity analysis of DailyDayCent using high frequency measurements. *Science of the Total Environment*, **2016**, 572, 955-977	10.2	25
462	Model evaluation in relation to soil N2O emissions: An algorithmic method which accounts for variability in measurements and possible time lags. **2016**, 84, 251-262		8
461	Sunlight stimulates methane uptake and nitrous oxide emission from the High Arctic tundra. *Science of the Total Environment*, **2016**, 572, 1150-1160	10.2	10
460	Interactions among vegetation, climate, and herbivory control greenhouse gas fluxes in a subarctic coastal wetland. **2016**, 121, 2960-2975		16
459	Fertilization Scenarios in Sprinkler-Irrigated Corn under Mediterranean Conditions: Effects on Greenhouse Gas Emissions. **2016**, 80, 662-671		19
458	Monitoring temperature sensitivity of soil organic carbon decomposition under maize-wheat cropping systems in semi-arid India. **2016**, 188, 451		8
457	Land cover changes and greenhouse gas emissions in two different soil covers in the Brazilian Caatinga. *Science of the Total Environment*, **2016**, 571, 1048-57	10.2	32
456	Modelling Seasonal and Inter-annual Variations in Carbon and Water Fluxes in an Arid-Zone Acacia Savanna Woodland, 1981–2012. **2016**, 19, 625-644		16
455	Relations of vegetation and water indices to volumetric soil water content in the Pantanal of Mato Grosso, Brazil. **2016**, 37, 4261-4275		7
454	Effect of fertilising with pig slurry and chicken manure on GHG emissions from Mediterranean paddies. *Science of the Total Environment*, **2016**, 569-570, 306-320	10.2	13
453	Ecosystem–Atmosphere Exchanges of CO2 in Dense and Open Terra Firme Rainforests in Brazilian Amazonia. **2016**, 149-169		3
452	Effects of bamboo biochar application on global warming in paddy fields in Ehime prefecture, Southern Japan. **2016**, 62, 553-560		6
451	Controls on Nitrous Oxide Emissions from the Hyporheic Zones of Streams. **2016**, 50, 11491-11500		44
450	Snow-covered soils produce N2O that is lost from forested catchments. **2016**, 121, 2356-2368		4
449	Nitrogen Use Efficiency for Sugarcane-Biofuel Production: What Is Next?. **2016**, 9, 1272-1289		65
448	Nitrous oxide uptake in rewetted wetlands with contrasting soil organic carbon contents. **2016**, 100, 110-117		17
447	Comparison of models for predicting pore space indices and their relationships with CO2 and N2O fluxes in a corn–soybean field. **2016**, 96, 328-335		3

446	N2O emission from a tomato rockwool culture is highly responsive to photoirradiation conditions. **2016**, 201, 318-328		3
445	Effect of the number of tillages in fallow season and fertilizer type on greenhouse gas emission from a rice (Oryza sativa L.) paddy field in Ehime, southwestern Japan. **2016**, 62, 69-79		14
444	Mechanistic modelling of daphnid-algae dynamics within a laboratory microcosm. **2016**, 320, 213-230		8
443	Exploring the relationship between soil mesofauna, soil structure and N2O emissions. **2016**, 96, 55-64		24
442	Species-specific effects of temperate trees on greenhouse gas exchange of forest soil are diminished by drought. **2016**, 95, 122-134		12
441	Phenological shifts in climatic response of secondary growth allow Juniperus sabina L. to cope with altitudinal and temporal climate variability. **2016**, 217, 35-45		24
440	Effects of temperature on soil organic carbon fractions contents, aggregate stability and structural characteristics of humic substances in a Mollisol. *Journal of Soils and Sediments*, **2016**, 16, 1849-1857	3.4	27
439	Evaluation of greenhouse gas emissions in a Miscanthus sinensis Andersson-dominated semi-natural grassland in Kumamoto, Japan. **2016**, 62, 80-89		2
438	Soil□atmosphere exchange of carbon dioxide, methane and nitrous oxide in shelterbelts compared with adjacent cropped fields. *Agriculture, Ecosystems and Environment*, **2016**, 223, 123-134	5.7	35
437	Soil carbon fractions under maize-wheat system: effect of tillage and nutrient management. **2016**, 188, 14		9
436	Asynchronous responses of soil carbon dioxide, nitrous oxide emissions and net nitrogen mineralization to enhanced fine root input. **2016**, 92, 67-78		16
435	Biodiversity and carbon stocks in different land use types in the Sudanian Zone of Burkina Faso, West Africa. *Agriculture, Ecosystems and Environment*, **2016**, 216, 61-72	5.7	41
434	Isotopocule analysis of biologically produced nitrous oxide in various environments. **2017**, 36, 135-160		89
433	The Functioning of Rhizosphere Biota in Wetlands □a Review. **2017**, 37, 615-633		21
432	Nitrous oxide fluxes in a Brazilian clayey oxisol after 24 years of integrated crop-livestock management. **2017**, 108, 55-68		10
431	Soil N2O fluxes in integrated production systems, continuous pasture and Cerrado. **2017**, 108, 69-83		11
430	Contrasting growth forecasts across the geographical range of Scots pine due to altitudinal and latitudinal differences in climatic sensitivity. *Global Change Biology*, **2017**, 23, 4106-4116	11.4	42
429	How does burning of rice straw affect CH 4 and N 2 O emissions? A comparative experiment of different on-field straw management practices. *Agriculture, Ecosystems and Environment*, **2017**, 239, 143-153	5.7	86

428	Conversion from rice to vegetable production increases NO emission via increased soil organic matter mineralization. *Science of the Total Environment*, **2017**, 583, 190-201	10.2	40
427	Long-term no-till and stover retention each decrease the global warming potential of irrigated continuous corn. *Global Change Biology*, **2017**, 23, 2848-2862	11.4	29
426	Riparian land uses affect the dry season soil CO 2 efflux under dry tropical ecosystems. **2017**, 100, 291-300		18
425	Dynamics and emissions of NO in groundwater: A review. *Science of the Total Environment*, **2017**, 584-585, 207-218	10.2	39
424	Extensive grazing in contrast to mowing is climate-friendly based on the farm-scale greenhouse gas balance. *Agriculture, Ecosystems and Environment*, **2017**, 240, 121-134	5.7	17
423	Plant root morphology and soil biological indicators under primary development of various swards. **2017**, 67, 435-443		6
422	Increasing drought effects on five European pines modulate 13C-growth coupling along a Mediterranean altitudinal gradient. **2017**, 31, 1359-1370		33
421	Simulated NH4+-N Deposition Inhibits CH4 Uptake and Promotes N2O Emission in the Meadow Steppe of Inner Mongolia, China. **2017**, 27, 306-317		12
420	Mediterranean Pine Forests: Management Effects on Carbon Stocks. **2017**, 301-327		19
419	The pelagic food web. **2017**, 281-332		7
418	Responses of soil nitrous oxide production and abundances and composition of associated microbial communities to nitrogen and water amendment. **2017**, 53, 601-611		49
417	Seasonal and soil-type dependent emissions of nitrous oxide from irrigated desert soils amended with digested poultry manures. *Science of the Total Environment*, **2017**, 593-594, 91-98	10.2	10
416	Biotechnical portfolio management of mixed-species forests. **2017**, 19, 223-245		5
415	A DECISION TREE-BASED APPROACH TO CALCULATE NITROUS OXIDE FLUXES FROM CHAMBER MEASUREMENTS. **2017**,		0
414	The effects of Eriophorum vaginatum on N 2 O fluxes at a restored, extracted peatland. **2017**, 106, 287-295		8
413	Effects of warming and nitrogen fertilization on GHG flux in an alpine swamp meadow of a permafrost region. *Science of the Total Environment*, **2017**, 601-602, 1389-1399	10.2	41
412	Climate change and temperature-linked hatchling mortality at a globally important sea turtle nesting site. *Global Change Biology*, **2017**, 23, 4922-4931	11.4	56
411	Land Processes as the Forcing of Extremes. **2017**, 75-92		1

410	Variations of N2O fluxes in response to warming and cooling in an alpine meadow on the Tibetan Plateau. **2017**, 143, 129-142		4
409	Gross N 2 O emission and gross N 2 O uptake in soils under temperate spruce and beech forests. **2017**, 112, 228-236		10
408	Ecoacoustics: A New Science. **2017**, 1-11		5
407	Egg buoyancy of flounder, Platichthys flesus , in the Baltic Sea□daptation to salinity and implications for egg survival. **2017**, 191, 179-189		20
406	Greenhouse gas emissions along a shelterbelt-cropped field transect. *Agriculture, Ecosystems and Environment*, **2017**, 241, 110-120	5.7	4
405	To burn or not to burn: The question of straw burning and nitrogen fertilization effect on nitrous oxide emissions in sugarcane. *Science of the Total Environment*, **2017**, 587-588, 399-406	10.2	15
404	Nitrogen Fertilization Had No Effect on CH4 and N2O Emissions in Rice Planted in Rewetted Peatlands. **2017**, 81, 224-232		7
403	Legacy effects of simulated short-term climate change on ammonia oxidisers, denitrifiers, and nitrous oxide emissions in an acid soil. **2017**, 24, 11639-11649		3
402	Soil sensors: detailed insight into research updates, significance, and future prospects. **2017**, 561-594		8
401	Effects of warming and nitrogen fertilization on GHG flux in the permafrost region of an alpine meadow. **2017**, 157, 111-124		43
400	Impact of forest degradation on streamflow regime and runoff response to rainfall in the Garhwal Himalaya, Northwest India. **2017**, 62, 1114-1130		18
399	Impact of Grazing Intensity and Seasons on Greenhouse Gas Emissions in Tropical Grassland. **2017**, 20, 845-859		23
398	Insights and issues with estimating northern peatland carbon stocks and fluxes since the Last Glacial Maximum. *Earth-Science Reviews*, **2017**, 165, 59-80	10.2	54
397	Seasonal nitrous oxide and methane emissions across a subtropical estuarine salinity gradient. **2017**, 132, 55-69		31
396	Effect of watershed urbanization on N2O emissions from the Chongqing metropolitan river network, China. **2017**, 171, 70-81		20
395	Cryptogamic stem covers may contribute to nitrous oxide consumption by mature beech trees. *Scientific Reports*, **2017**, 7, 13243	4.9	12
394	The Abiotic Nitrogen Cycle. **2017**, 1, 411-421		26
393	Improving the management of mineral fertilizers for nitrous oxide mitigation: The effect of nitrogen fertilizer type, urease and nitrification inhibitors in two different textured soils. *Geoderma*, **2017**, 307, 181-188	6.7	32

392	Out of the shadows: multiple nutrient limitations drive relationships among biomass, light and plant diversity. **2017**, 31, 1839-1846		30
391	The effect of nitrogen deposition rather than warming on carbon flux in alpine meadows depends on precipitation variations. **2017**, 107, 183-191		10
390	Abundance and Distribution of Indian Mackerel (Rastrelliger kanagurta) along the South-West Coast of India in Respect to the Hydro-Biological Changes. **2017**, 33, 159-171		2
389	2D profiles of CO 2 , CH 4 , N 2 O and gas diffusivity in a well aerated soil: measurement and Finite Element Modeling. **2017**, 247, 21-33		18
388	Root-derived nitrous oxide emissions from an Upper Midwest agricultural ecosystem. **2017**, 109, 57-75		1
387	Long-term effect of temperature and precipitation on radial growth in a threatened thermo-Mediterranean tree population. **2017**, 31, 491-501		22
386	Temporal Changes Rather than Long-Term Repeated Burning Predominately Control the Shift in the Abundance of Soil Denitrifying Community in an Australian Sclerophyll Forest. **2017**, 73, 177-187		5
385	Soil N2O fluxes and related processes in laboratory incubations simulating ammonium fertilizer depots. **2017**, 104, 68-80		34
384	Assessing forest vulnerability to climate warming using a process-based model of tree growth: bad prospects for rear-edges. *Global Change Biology*, **2017**, 23, 2705-2719	11.4	89
383	Effect of Graded Levels of Surface Crop Residue Application Under Minimum Tillage on Carbon Pools and Carbon Lability Index in Sorghum (Sorghum bicolor (L.) Moench)-Cowpea (Vigna unguiculata) System in Rainfed Alfisols. **2017**, 48, 2506-2513		7
382	Dynamics of soil-derived greenhouse gas emissions from shelterbelts under elevated soil moisture conditions in a semi-arid prairie environment. **2017**, 92, 321		1
381	Combining organic and inorganic nitrogen fertilisation reduces N2O emissions from cereal crops: a comparative analysis of China and Zimbabwe. **2017**, 22, 233-245		21
380	Nitrous oxide emissions from a peatbog after 13´years of experimental nitrogen deposition. **2017**, 14, 5753-5764		6
379	Preindustrial nitrous oxide emissions from the land biosphere estimated by using a global biogeochemistry model. **2017**, 13, 977-990		13
378	QUELˆ ÑIOS MARINHOS DA BACIA DE CAMPOS. **2017**, 127-134		
377	<i>Comparing the soil nitrogen losses for fall applied manure and inorganic fertilizer in the northern great plains</i>. **2017**,		
376	Gas chromatography vs. quantum cascade laser-based´N₂O flux measurements using a novel chamber design. **2017**, 14, 1365-1381		13
375	The Emissions of Carbon Dioxide, Methane, and Nitrous Oxide during Winter without Cultivation in Local Saline-Alkali Rice and Maize Fields in Northeast China. **2017**, 9, 1916		11

374	Drivers of Plot-Scale Variability of CH4 Consumption in a Well-Aerated Pine Forest Soil. **2017**, 8, 193		16
373	Effects of tillage practice on soil structure, N2O emissions and economics in cereal production under current socio-economic conditions in central Bosnia and Herzegovina. **2017**, 12, e0187681		13
372	Seasonal variability in methane and nitrous oxide fluxes from tropical peatlands in the western Amazon basin. **2017**, 14, 3669-3683		22
371	Comparison of N2O Emissions and Gene Abundances between Wastewater Nitrogen Removal Systems. **2017**, 46, 931-938		16
370	Dimensiones espacial y temporal de los procesos de selecci^ □n de h^ Bitats cr^ Eicos por las tortugas marinas. **2017**, 52, 187-199		3
369	Diversidade e distribui^ □□ de tartarugas marinhas na ^ Eea de influ^ Ecia das atividades de E&P na Bacia de Campos. **2017**, 121-159		4
368	Nitrous Oxide Fluxes and Soil Oxygen Dynamics of Soil Treated with Cow Urine. **2017**, 81, 289-298		26
367	Soil Nitrogen Storage, Distribution, and Associated Controlling Factors in the Northeast Tibetan Plateau Shrublands. **2017**, 8, 416		17
366	Soil trace gas fluxes along orthogonal precipitation and soil fertility gradients in tropical lowland forests of Panama. **2017**, 14, 3509-3524		10
365	Repellent Effects of Andiroba and Copaiba Oils against Musca domestica (Common House Fly) and Ecotoxicological Effects on the Environment. **2017**, 45, 8		1
364	Multi-scale measurements show limited soil greenhouse gas emissions in Kenyan smallholder coffee-dairy systems. *Science of the Total Environment*, **2018**, 626, 328-339	10.2	15
363	Effects of controlled-release fertilizer on nitrous oxide and nitric oxide emissions during wheat-growing season: field and pot experiments. **2018**, 16, 99-108		9
362	Spatial Variation of Soil CO2, CH4 and N2O Fluxes Across Topographical Positions in Tropical Forests of the Guiana Shield. **2018**, 21, 1445-1458		20
361	Land-use and abandonment alters methane and nitrous oxide fluxes in mountain grasslands. *Science of the Total Environment*, **2018**, 628-629, 997-1008	10.2	14
360	Long-term nutrient addition increases respiration and nitrous oxide emissions in a New England salt marsh. **2018**, 8, 4958-4966		15
359	Dynamic biochar effects on soil nitrous oxide emissions and underlying microbial processes during the maize growing season. **2018**, 122, 81-90		27
358	Quantifying the economic and greenhouse gas balance advantages of establishing miscanthus from stem cuttings. **2018**, 109, 147-154		2
357	Different response of CO2 and N2O fluxes to N deposition with seasons in a temperate forest in northeastern China. *Journal of Soils and Sediments*, **2018**, 18, 1821-1831	3.4	7

356	Depth-dependent greenhouse gas production and consumption in an upland cropping system in northern China. *Geoderma*, **2018**, 319, 100-112	6.7	15
355	Urea Fertilizer: The Global Challenges and Their Impact to Our Sustainability. **2018**, 1-21		1
354	Greenhouse gas fluxes over managed grasslands in Central Europe. *Global Change Biology*, **2018**, 24, 1843-1872	11.4	44
353	Conversion of grazed pastures to energy cane as a biofuel feedstock alters the emission of GHGs from soils in Southeastern United States. **2018**, 108, 312-322		6
352	Widening the perspective in greenhouse gas emissions accounting: The way forward for supporting climate and energy policies at municipal level. **2018**, 176, 842-851		19
351	Intercontinental comparison of greenhouse gas emissions from irrigated rice fields under feasible water management practices: Brazil and Japan. **2018**, 64, 59-67		2
350	First results of tall tower based nitrous oxide flux monitoring over an agricultural region in Central Europe. **2018**, 176, 240-251		7
349	A regional scale modeling framework combining biogeochemical model with life cycle and economic analysis for integrated assessment of cropping systems. *Science of the Total Environment*, **2018**, 625, 428-439	10.2	16
348	Mitigation of nitrous oxide emissions from acidic soils by Bacillus amyloliquefaciens, a plant growth-promoting bacterium. *Global Change Biology*, **2018**, 24, 2352-2365	11.4	19
347	Reduction in soil NO emissions by pH manipulation and enhanced nosZ gene transcription under different water regimes. **2018**, 235, 625-631		51
346	Effect of Stover Management and Nitrogen Fertilization on N2O and CO2 Emissions from Irrigated Maize in a High Nitrate Mediterranean Soil. **2018**, 229, 1		14
345	Latitudinal patterns and influencing factors of soil humic carbon fractions from tropical to temperate forests. **2018**, 28, 15-30		9
344	Differential responses of soil CO2 and N2O fluxes to experimental warming. **2018**, 259, 11-22		19
343	Evaluation of the effects of plastic mulching and nitrapyrin on nitrous oxide emissions and economic parameters in an arid agricultural field. *Geoderma*, **2018**, 324, 98-108	6.7	16
342	Estimating N O processes during grassland renewal and grassland conversion to maize cropping using N O isotopocules. **2018**, 32, 1053-1067		26
341	Long-Term Grazing Alters Soil Trace Gas Fluxes from Grasslands in the Foothills of the Rocky Mountains, Canada. **2018**, 29, 292-302		9
340	Effect of volume of urine and mass of faeces on N2O and CH4 emissions of dairy-cow excreta in a tropical pasture. **2018**, 58, 1079		16
339	Temporal Variability of CO2 and N2O Flux Spatial Patterns at a Mowed and a Grazed Grassland. **2018**, 21, 112-124		11

338	Peaks of in situ N O emissions are influenced by N O-producing and reducing microbial communities across arable soils. *Global Change Biology*, **2018**, 24, 360-370	11.4	59
337	Assessing uncertainties in crop and pasture ensemble model simulations of productivity and N O emissions. *Global Change Biology*, **2018**, 24, e603-e616	11.4	74
336	Global analysis of agricultural soil denitrification in response to fertilizer nitrogen. *Science of the Total Environment*, **2018**, 616-617, 908-917	10.2	47
335	The role of maize plants in regulating soil profile dynamics and surface emissions of nitrous oxide in a semiarid environment. **2018**, 54, 119-135		9
334	The denitrification paradox: The role of O2 in sediment N2O production. **2018**, 200, 270-276		5
333	Effects of warming on NO fluxes in a boreal peatland of Permafrost region, Northeast China. *Science of the Total Environment*, **2018**, 616-617, 427-434	10.2	34
332	Genomics and Ecology of Novel NO-Reducing Microorganisms. **2018**, 26, 43-55		212
331	Greenhouse Gas Emissions from Beef Feedlot Surface Materials as Affected by Diet, Moisture, Temperature, and Time. **2018**, 61, 571-582		4
330	Soil Respiration for Four Vegetation uses in the University of Sucre - Colombia. **2018**, 11, 1-10		
329	Potential for negative emissions of greenhouse gases (CO 2 , CH 4 and N 2 O) through coastal peatland re-establishment: Novel insights from high frequency flux data at meter and kilometer scales. **2018**, 13, 045005		15
328	Nitrous oxide emission in response to N application in irrigated sugarcane. **2018**, 22, 758-763		1
327	Nitrous oxide and nitric oxide emissions from lowland rice cultivation with urea deep placement and alternate wetting and drying irrigation. *Scientific Reports*, **2018**, 8, 17623	4.9	10
326	Pests and Diseases under Climate Change; Its Threat to Food Security. **2018**, 229-249		5
325	Greenhouse Gas Production and Transport in Desert Soils of the Southwestern United States. **2018**, 32, 1703-1717		4
324	Nitrous Oxide Production From Soils in the Future. **2018**, 131-183		4
323	Nitrous oxide fluxes determined by continuous eddy covariance measurements from intensively grazed pastures: Temporal patterns and environmental controls. *Agriculture, Ecosystems and Environment*, **2018**, 268, 171-180	5.7	16
322	Comparison of portable devices for sub-ambient concentration measurements of methane (CH4) and nitrous oxide (N2O) in soil research. **2018**, 98, 1030-1037		8
321	Soil CO2 and N2O Emission Drivers in a Vineyard (Vitis vinifera) under Different Soil Management Systems and Amendments. **2018**, 10, 1811		6

320	Convective suppression before and during the United States Northern Great Plains flash drought of 2017. **2018**, 22, 4155-4163		32
319	Fertiliser timing and use of inhibitors to reduce N2O emissions of rainfed wheat in a semi-arid environment. **2018**, 112, 231-252		11
318	The introduction of Sargassum muticum modifies epifaunal patterns in a Moroccan seagrass meadow. **2018**, 39, e12507		5
317	Influence of soil water content on CO2 efflux within the elevation transect heavily impacted by erosion. **2018**, 11, e1989		7
316	Modelling the diurnal and seasonal dynamics of soil CO₂ exchange in a semiarid ecosystem with high plant interspace heterogeneity. **2018**, 15, 115-136		4
315	Relating Bryophyte Assemblages to a Remotely Sensed Depth-to-Water Index in Boreal Forests. *Frontiers in Plant Science*, **2018**, 9, 858	6.2	16
314	Denitrification in Soil Aggregate Analogues-Effect of Aggregate Size and Oxygen Diffusion. **2018**, 6,		38
313	Micrometeorological Measurements Reveal Large Nitrous Oxide Losses during Spring Thaw in Alberta. **2018**, 9, 128		14
312	Sustainable and Low Greenhouse Gas Emitting Rice Production in Latin America and the Caribbean: A Review on the Transition from Ideality to Reality. **2018**, 10, 671		10
311	Estuaries as Sources and Sinks of N2O Across a Land Use Gradient in Subtropical Australia. **2018**, 32, 877-894		31
310	Decrease in the annual emissions of CH and NO following the initial land management change from rice to vegetable production. **2018**, 25, 13014-13025		2
309	Tree-rings to climate relationships in nineteen provenances of four black pines sub-species (Pinus nigra Arn.) growing in a common garden from Northwest Tunisia. **2018**, 50, 44-51		8
308	Nitrogen Budget and Topographic Controls on Nitrous Oxide in a Shale-Based Watershed. **2018**, 123, 1888-1908		9
307	Six years of ecosystem-atmosphere greenhouse gas fluxes measured in a sub-boreal forest. **2019**, 6, 117		15
306	Carbon Dioxide Sequestering Ability of Bacterial Carbonic Anhydrase in a Mangrove Soil Microcosm and Its Bio-mineralization Properties. **2019**, 230, 1		2
305	Effect of soil tillage and N fertilization on NO mitigation in maize in the Brazilian Cerrado. *Science of the Total Environment*, **2019**, 692, 1165-1174	10.2	11
304	Fraction of nitrous oxide production in nitrification and its effect on total soil emission: A meta-analysis and global-scale sensitivity analysis using a process-based model. **2019**, 14, e0219159		10
303	Seasonal effects on ammonia, nitrous oxide, and methane emissions for beef cattle excreta and urea fertilizer applied to a tropical pasture. **2019**, 194, 104341		24

302	Post-seasonal effects of water-saving rice production regimes on N2O emissions in an annual rice-barley rotation system. **2019**, 182, 104112		3
301	Spatial and Temporal Variation in Soil Nitrous Oxide Emissions from a Rehabilitated and Undisturbed Riparian Forest. **2019**, 48, 624-633		6
300	Characterization of marine bacterial carbonic anhydrase and their CO sequestration abilities based on a soil microcosm. **2019**, 49, 891-899		6
299	Black Alder (Alnus glutinosa (L.) Gaertn.) on Compacted Skid Trails: A Trade-off between Greenhouse Gas Fluxes and Soil Structure Recovery?. **2019**, 10, 726		8
298	Seasonal Variations in N2O Emissions in a Subtropical Forest With Exogenous Nitrogen Enrichment are Predominately Influenced by the Abundances of Soil Nitrifiers and Denitrifiers. **2019**, 124, 3635-3651		2
297	Seasonal dynamics of stem NO exchange follow the physiological activity of boreal trees. **2019**, 10, 4989		20
296	Microbial Nitric Oxide, Nitrous Oxide, and Nitrous Acid Emissions from Drylands. **2019**, 335-365		1
295	Iron Redox Reactions Can Drive Microtopographic Variation in Upland Soil Carbon Dioxide and Nitrous Oxide Emissions. **2019**, 3, 60		4
294	Acidification diminishes diatom silica production in the Southern Ocean. **2019**, 9, 781-786		36
293	Tillage, compaction and wetting effects on NO3, N2O and N2 losses. **2019**, 57, 670		10
292	Rice root Fe plaque enhances paddy soil N2O emissions via Fe(II) oxidation-coupled denitrification. **2019**, 139, 107610		10
291	Ecosystem hydrologic and metabolic flashiness are shaped by plant community traits and precipitation. **2019**, 279, 107674		3
290	Trace gas fluxes from managed grassland soil subject to multifactorial climate change manipulation. **2019**, 137, 1-11		8
289	Saturated N2O emission rates occur above the nitrogen deposition level predicted for the semi-arid grasslands of Inner Mongolia, China. *Geoderma*, **2019**, 341, 18-25	6.7	13
288	Fertilizer nitrogen loss via N2 emission from calcareous soil following basal urea application of winter wheat. **2019**, 12, 91-97		3
287	High N2O consumption potential of weakly disturbed fen mires with dissimilar denitrifier community structure. **2019**, 130, 63-72		7
286	Effects of afforestation on soil nitrous oxide emissions in a subtropical montane agricultural landscape: A 3-year field experiment. **2019**, 266-267, 221-230		7
285	Historical soil drainage mediates the response of soil greenhouse gas emissions to intense precipitation events. **2019**, 142, 425-442		19

284	Seasonal variations in N2 and N2O emissions from a wheat–maize cropping system. **2019**, 55, 539-551		7
283	The responses of NO2−- and N2O-reducing bacteria to maize inoculation by the PGPR Azospirillum lipoferum CRT1 depend on carbon availability and determine soil gross and net N2O production. **2019**, 136, 107524		16
282	Siberian tree-ring and stable isotope proxies as indicators of temperature and moisture changes after major stratospheric volcanic eruptions. **2019**, 15, 685-700		17
281	Changes in microbial functional genes within the soil metagenome during forest ecosystem restoration. **2019**, 135, 163-172		27
280	The influence of revetment types on soil denitrification in the adjacent tidal urban riparian zones. **2019**, 574, 398-407		8
279	Effect of N dose on soil GHG emissions from a drip-fertigated olive (Olea europaea L.) orchard. *Science of the Total Environment*, **2019**, 677, 350-361	10.2	6
278	References. **2019**, 547-617		
277	N2O flux short-term response to temperature and topsoil disturbance in a fertilized crop: An eddy covariance campaign. **2019**, 271, 193-206		6
276	Plant biomass, rather than species composition, determines ecosystem properties: Results from a long-term graminoid removal experiment in a northern Canadian grassland. **2019**, 107, 2211-2225		5
275	Biochar amendment and Calamagrostis angustifolia planting affect sources and production pathways of NO in agricultural ditch systems. **2019**, 21, 727-737		1
274	Greenhouse Gas Emissions from an Irrigated Crop Rotation Utilizing Dairy Manure. **2019**, 83, 137-152		8
273	Effects of Afforestation Restoration on Soil Potential NO Emission and Denitrifying Bacteria After Farmland Abandonment in the Chinese Loess Plateau. **2019**, 10, 262		3
272	Automated measurements of greenhouse gases fluxes from tree stems and soils: magnitudes, patterns and drivers. *Scientific Reports*, **2019**, 9, 4005	4.9	33
271	The Effect of Land-Use Change on Soil CH4 and N2O Fluxes: A Global Meta-Analysis. **2019**, 22, 1424-1443		25
270	Nutrition of Substrate-Grown Plants. **2019**, 197-257		1
269	Laboratory study on nitrate removal and nitrous oxide emission in intact soil columns collected from nitrogenous loaded riparian wetland, Northeast China. **2019**, 14, e0214456		4
268	Biochar remediates denitrification process and N2O emission in pesticide chlorothalonil-polluted soil: Role of electron transport chain. **2019**, 370, 587-594		30
267	SWAT-N2O coupler: An integration tool for soil N2O emission modeling. **2019**, 115, 86-97		6

266	Remarkable NO emissions by draining fallow paddy soil and close link to the ammonium-oxidizing archaea communities. *Scientific Reports*, **2019**, 9, 2550	4.9	1
265	Nitrous oxide from streams and rivers: A review of primary biogeochemical pathways and environmental variables. *Earth-Science Reviews*, **2019**, 191, 224-262	10.2	64
264	A new look at an old concept: using ¹⁵N₂O isotopomers to understand the relationship between soil moisture and N₂O production pathways. **2019**, 5, 265-274		16
263	Greenhouse gas emissions from windrow composting of organic wastes: Patterns and emissions factors. **2019**, 14, 124027		16
262	Specificity of the river flow formation of small mountain streams of the Baikal Natural Territory resulting from wildfires. **2019**, 381, 012042		0
261	Dynamic Controls on Field-Scale Soil Nitrous Oxide Hot Spots and Hot Moments Across a Microtopographic Gradient. **2019**, 124, 3618-3634		11
260	Net NO production from soil particle size fractions and its response to changing temperature. *Science of the Total Environment*, **2019**, 650, 97-104	10.2	10
259	Can alternative N-fertilization methods influence GHG emissions and biomass production in sugarcane fields?. **2019**, 120, 21-27		16
258	Interactive effects of soil texture and salinity on nitrous oxide emissions following crop residue amendment. *Geoderma*, **2019**, 337, 1146-1154	6.7	19
257	Soil aggregates as biogeochemical reactors and implications for soil-atmosphere exchange of greenhouse gases-A concept. *Global Change Biology*, **2019**, 25, 373-385	11.4	51
256	Fluxes of CO, CH, and NO in tundra-covered and Nothofagus forest soils in the Argentinian Patagonia. *Science of the Total Environment*, **2019**, 659, 401-409	10.2	9
255	Methane and nitrous oxide emissions from the drawdown areas of the Three Gorges Reservoir. *Science of the Total Environment*, **2019**, 660, 567-576	10.2	6
254	Changes in soil nitrogen stocks following vegetation restoration in a typical karst catchment. **2019**, 30, 60-72		26
253	Heterotrophic nitrification and denitrification are the main sources of nitrous oxide in two paddy soils. **2019**, 445, 39-53		40
252	Coregulation of nitrous oxide emissions by nitrogen and temperature in China's third largest freshwater lake (Lake Taihu). **2019**, 64, 1070-1086		27
251	N2O emission mitigation and microbial activity after Biochar and Cao application in a flooded nitrate-rich vegetable soil. **2019**, 69, 257-267		
250	Nitrogen inputs are more important than denitrifier abundances in controlling denitrification-derived NO emission from both urban and agricultural soils. *Science of the Total Environment*, **2019**, 650, 2807-2817	10.2	9
249	Complete annual CO2, CH4, and N2O balance of a temperate riparian wetland 12 years after rewetting. **2019**, 127, 527-535		14

248	A review of plant options for mitigating nitrous oxide emissions from pasture-based systems. **2020**, 63, 29-43		32
247	Effect of N dose, fertilisation duration and application of a nitrification inhibitor on GHG emissions from a peach orchard. *Science of the Total Environment*, **2020**, 699, 134042	10.2	10
246	Land-use legacy effects shape microbial contribution to N2O production in three tropical forests. *Geoderma*, **2020**, 358, 113979	6.7	5
245	Simultaneous numerical representation of soil microsite production and consumption of carbon dioxide, methane, and nitrous oxide using probability distribution functions. *Global Change Biology*, **2020**, 26, 200-218	11.4	11
244	Reconciling annual nitrous oxide emissions of an intensively grazed dairy pasture determined by eddy covariance and emission factors. *Agriculture, Ecosystems and Environment*, **2020**, 287, 106646	5.7	11
243	Small wetted proportion of drip irrigation and non-mulched treatment with manure application enhanced methane uptake in upland field. **2020**, 281, 107821		6
242	Combining no-till with rye (Secale cereale L.) cover crop mitigates nitrous oxide emissions without decreasing yield. **2020**, 196, 104442		25
241	Modelling of nitrification inhibitor and its effects on emissions of nitrous oxide (NO) in the UK. *Science of the Total Environment*, **2020**, 709, 136156	10.2	11
240	Long-term effects of forest fires on soil greenhouse gas emissions and extracellular enzyme activities in a hemiboreal forest. *Science of the Total Environment*, **2020**, 718, 135291	10.2	8
239	Variations of soil CO2 concentration and pCO2 in a cave stream on different time scales in subtropical climatic regime. **2020**, 185, 104280		4
238	Impacts of Clear-Cutting of a Boreal Forest on Carbon Dioxide, Methane and Nitrous Oxide Fluxes. **2020**, 11, 961		7
237	A Sustainability Assessment of the Greenseeker N Management Tool: A Lysimetric Experiment on Barley. **2020**, 12, 7303		4
236	Dissolved organic carbon enhances both soil N2O production and uptake. **2020**, 24, e01264		5
235	Molecular and ecological perspectives of nitrous oxide producing microbial communities in agro-ecosystems. **2020**, 19, 717-750		20
234	The effect of chemical and organic N inputs on NO emission from rain-fed crops in Eastern Mediterranean. **2020**, 270, 110755		8
233	Nitrous oxide emissions from grass□clover swards as influenced by sward age and biological nitrogen fixation. **2020**, 75, 372-384		9
232	Nitrogen isotopic signatures and fluxes of NO in response to land-use change on naturally occurring saline-alkaline soil. *Scientific Reports*, **2020**, 10, 21253	4.9	3
231	Bryophytes impact the fluxes of soil non-carbon dioxide greenhouse gases in a subalpine coniferous forest. **2020**, 56, 1151-1163		1

230	N₂O changes from the Last Glacial Maximum to the preindustrial Part 2: terrestrial N₂O emissions and carbonnitrogen cycle interactions. **2020**, 17, 3511-3543		3
229	Large Variations in N2O Fluxes from Bioenergy Crops According to Management Practices and Crop Type. **2020**, 11, 675		3
228	Inhibitor-coated enhanced-efficiency N fertilizers for mitigating NOx and N2O emissions in a high-temperature irrigated agroecosystem. **2020**, 292-293, 108110		4
227	Greenhouse gases emissions from tropical grasslands affected by nitrogen fertilizer management. **2020**, 112, 4666-4680		5
226	N2O Emissions Mitigation in Acidic Soil Following Biochar Application Under Different Moisture Regimes. **2020**, 20, 2454-2464		8
225	Enhanced efficiency nitrogen fertilizers were not effective in reducing NO emissions from a drip-irrigated cotton field in arid region of Northwestern China. *Science of the Total Environment*, **2020**, 748, 141543	10.2	10
224	Impact of changes in surface cover on energy balance in a tropical city by remote sensing: A study case in Brazil. **2020**, 20, 100373		1
223	No effect of warming and watering on soil nitrous oxide fluxes in a temperate sitka spruce forest ecosystem. **2020**, 17, 83-96		0
222	Spatial and temporal variability of soil N O and CH fluxes along a degradation gradient in a palm swamp peat forest in the Peruvian Amazon. *Global Change Biology*, **2020**, 26, 7198-7216	11.4	10
221	Green Turtle (Chelonia mydas) Nesting Underscores the Importance of Protected Areas in the Northwestern Gulf of Mexico. **2020**, 7,		2
220	Diurnal and seasonal variations on soil CO2 fluxes in tropical silvopastoral systems. **2020**, 36, 671-681		2
219	Deep N fertilizer placement mitigated N2O emissions in a Swedish field trial with cereals. **2020**, 118, 133-148		16
218	Abrupt Fen-Bog Transition Across Southern Patagonia: Timing, Causes, and Impacts on Carbon Sequestration. *Frontiers in Ecology and Evolution*, **2020**, 8,	3.7	13
217	Atmospheric impact of nitrous oxide uptake by boreal forest soils can be comparable to that of methane uptake. **2020**, 454, 121-138		5
216	N2O and CO2 Emissions from Bare Soil: Effect of Fertilizer Management. **2020**, 10, 602		1
215	Long Term Soil Gas Monitoring as Tool to Understand Soil Processes. **2020**, 10, 8653		3
214	Soil organic matter, greenhouse gas emissions, and sorghum yield in semi-arid drylands. **2020**, 3, e20107		0
213	Straw amendments did not induce high N2O emissions in non-frozen wintertime conditions: A study in northern Germany. **2020**, 36, 693-703		0

212	Nitrate Respiration in NAR1: from Horizontal Gene Transfer to Internal Evolution. **2020**, 11,		1
211	nirS-type denitrifying bacterial communities in relation to soil physicochemical conditions and soil depths of two montane riparian meadows in North China. **2020**, 27, 28899-28911		1
210	Effect of Manure and Urea Fertilization on Yield, Carbon Speciation and Greenhouse Gas Emissions from Vegetable Production Systems of Nigeria and Republic of Benin: A Phytotron Study. **2020**, 10, 400		2
209	Gross NO Production Process, Not Consumption, Determines the Temperature Sensitivity of Net NO Emission in Arable Soil Subject to Different Long-Term Fertilization Practices. **2020**, 11, 745		2
208	Crop yield and NO emission affected by long-term organic manure substitution fertilizer under winter wheat-summer maize cropping system. *Science of the Total Environment*, **2020**, 732, 139321	10.2	22
207	CO2 and N2O emissions in response to dolomite application are moisture dependent in an acidic paddy soil. *Journal of Soils and Sediments*, **2020**, 20, 3136-3147	3.4	3
206	Influence of vegetation cover and soil features on CO2, CH4 and N2O fluxes in northern Finnish Lapland. **2020**, 24, 100531		2
205	Simulated nitrogen deposition influences soil greenhouse gas fluxes in a Mediterranean dryland. *Science of the Total Environment*, **2020**, 737, 139610	10.2	3
204	Biochar amendment mitigates greenhouse gases emission and global warming potential in dairy manure based silage corn in boreal climate. **2020**, 265, 114869		16
203	Soil greenhouse gas emissions under different land-use types in savanna ecosystems of Kenya. **2020**, 17, 2149-2167		16
202	Agricultural soils a trigger to nitrous oxide: a persuasive greenhouse gas and its management. **2020** , 192, 436		6
201	Structural and functional shifts of soil prokaryotic community due to Eucalyptus plantation and rotation phase. *Scientific Reports*, **2020**, 10, 9075	4.9	2
200	Using field-measured soil N2O fluxes and laboratory scale parameterization of N2O/(N2O+N2) ratios to quantify field-scale soil N2 emissions. **2020**, 148, 107904		10
199	What can we learn from N O isotope data? - Analytics, processes and modelling. **2020**, 34, e8858		35
198	Spatial and seasonal variability of nitrous oxide in a large freshwater lake in the lower reaches of the Yangtze River, China. *Science of the Total Environment*, **2020**, 721, 137716	10.2	4
197	Invasive Spartina alterniflora can mitigate N2O emission in coastal salt marshes. **2020**, 147, 105758		2
196	Geographical analysis of river flood hazard in Siberia. **2020**, 18, 255-264		3
195	Patterns of Denitrification and Methanogenesis Rates from Vernal Pools in a Temperate Forest Driven by Seasonal, Microbial Functional Gene Abundances, and Soil Chemistry. **2020**, 40, 721-731		1

194	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. **2020**, 4, 14		24
193	Greenhouse gas emissions from advanced nitrogen-removal onsite wastewater treatment systems. *Science of the Total Environment*, **2020**, 737, 140399	10.2	3
192	Logging residue piles of Norway spruce, Scots pine and silver birch in a clear-cut: Effects on nitrous oxide emissions and soil percolate water nitrogen. *Science of the Total Environment*, **2020**, 738, 139743	10.2	2
191	Soil-atmosphere exchange of greenhouse gases from typical subalpine forests on the eastern Qinghai-Tibetan Plateau: Effects of forest regeneration patterns. **2020**, 31, 2019-2032		1
190	Impacts of nitrogen addition on nitrous oxide emission: Comparison of five nitrous oxide modules or algorithms. **2020**, 421, 108963		3
189	Dendroclimatological analysis and tree-ring growth prediction of Quercus mongolica. **2020**, 16, 32-40		4
188	River-floodplain restoration and hydrological effects on GHG emissions: Biogeochemical dynamics in the parafluvial zone. *Science of the Total Environment*, **2020**, 715, 136980	10.2	6
187	Biocrusts Modulate Responses of Nitrous Oxide and Methane Soil Fluxes to Simulated Climate Change in a Mediterranean Dryland. **2020**, 23, 1690-1701		10
186	Riparian land-use systems impact soil microbial communities and nitrous oxide emissions in an agro-ecosystem. *Science of the Total Environment*, **2020**, 724, 138148	10.2	11
185	Radial growth response of two oaks to climate at their disparate distribution limits in semiarid areas, Beijing, China. **2020**, 11, e03062		0
184	Stable Carbon Isotopes 13C as a Proxy for Characterizing Carbon Sources and Processes in a Small Tropical Headwater Catchment: Nsimi, Cameroon. **2021**, 27, 1-30		3
183	Effects of synthetic nitrogen fertilizer and manure on fungal and bacterial contributions to NO production along a soil acidity gradient. *Science of the Total Environment*, **2021**, 753, 142011	10.2	6
182	NO and NO production by the comammox bacterium Nitrospira inopinata in comparison with canonical ammonia oxidizers. **2021**, 190, 116728		13
181	Rates and microbial communities of denitrification and anammox across coastal tidal flat lands and inland paddy soils in East China. **2021**, 157, 103768		7
180	Nitrogen cycling microbiomes are structured by plant mycorrhizal associations with consequences for nitrogen oxide fluxes in forests. *Global Change Biology*, **2020**, 27, 1068	11.4	15
179	Manipulating plant community composition to steer efficient N-cycling in intensively managed grasslands. **2021**, 58, 167-180		7
178	Can N O emissions offset the benefits from soil organic carbon storage?. *Global Change Biology*, **2021**, 27, 237-256	11.4	54
177	Development of droplet digital PCR assays to quantify genes involved in nitrification and denitrification, comparison with quantitative real-time PCR and validation of assays in vineyard soil. **2021**, 67, 174-187		2

176	Oxygen concentrations regulate NO, N2O, and N2 kinetics and nitrogen transformation in a fluvo-aquic soil using a robotized incubation system. *Journal of Soils and Sediments*, **2021**, 21, 1337-1347	3.4	1
175	Biochar Role in Mitigation of Greenhouse Gas Emissions from Agricultural Soils. **2021**, 261-278		
174	Contribution of Different Quantities of Leaf Litter to Nitrous Oxide Emission from a Temperate Deciduous Forest. **2021**, 25, 1163-1175		0
173	Ideas and perspectives: patterns of soil CO₂, CH₄, and N₂O fluxes along an altitudinal gradient – a pilot study from an Ecuadorian neotropical montane forest. **2021**, 18, 413-421		0
172	Reducing N Fertilization without Yield Penalties in Maize with a Commercially Available Seed Dressing. **2021**, 11, 407		4
171	Effects of dry-wet cycles on nitrous oxide emissions in freshwater sediments: a synthesis. **2021**, 9, e10767		3
170	Denitrifying pathways dominate nitrous oxide emissions from managed grassland during drought and rewetting. **2021**, 7,		15
169	Are Key Acetate Assimilators During Complete Denitrification in Acidic Cryoturbated Peat Circles of the Arctic Tundra. **2021**, 12, 628269		9
168	Sheep Excrement Increases Mass of Greenhouse Gases Emissions from Soil Growing Two Forage Crop and Multi-Cutting Reduces Intensity. **2021**, 11, 238		2
167	Beyond denitrification: The role of microbial diversity in controlling nitrous oxide reduction and soil nitrous oxide emissions. *Global Change Biology*, **2021**, 27, 2669-2683	11.4	14
166	Modelling of N2O emissions from a maize crop after the application of enhanced-efficiency nitrogen fertilisers. **2021**, 52, 1645-1656		
165	Spatio-Temporal Variability of Peat CH4 and N2O Fluxes and Their Contribution to Peat GHG Budgets in Indonesian Forests and Oil Palm Plantations. **2021**, 9,		4
164	Quantification of greenhouse gas emissions from managed biofuel plantations in a semi-arid landscape of Southern India. **2021**, 62, 453-462		
163	Comparison between observed and DeNitrification-DeComposition model-based nitrous oxide fluxes and maize yields under selected soil fertility management technologies in Kenya. **2021**, 463, 395-413		2
162	Amendment with biodiesel co-product modifies genes for N cycling (nirK, nirS, nosZ) and greenhouse gas emissions (N2O, CH4, CO2) from an acid soil. **2021**, 57, 629-642		1
161	Earthworms did not increase long-term nitrous oxide fluxes in perennial forage and riparian buffer ecosystems. **2021**, 85-86, 150727		0
160	Wheat straw mulching with nitrification inhibitor application improves grain yield and economic benefit while mitigating gaseous emissions from a dryland maize field in northwest China. **2021**, 265, 108125		12
159	Effect of straw incorporation and nitrification inhibitor on nitrous oxide emission in various cropland soils and its microbial mechanism.		0

158	Continuous application of conservation tillage affects in situ N2O emissions and nitrogen cycling gene abundances following nitrogen fertilization. **2021**, 157, 108239		4
157	How do water table drawdown, duration of drainage, and warming influence greenhouse gas emissions from drained peatlands of the Zoige Plateau?. **2021**, 32, 3351-3364		1
156	Human activity intensity controls the relative importance of denitrification and anaerobic ammonium oxidation across subtropical estuaries. **2021**, 202, 105260		4
155	Conversion of alpine pastureland to artificial grassland altered CO and NO emissions by decreasing C and N in different soil aggregates.. **2021**, 9, e11807		0
154	Organic fertility inputs synergistically increase denitrification-derived nitrous oxide emissions in agroecosystems. **2021**, 31, e02403		3
153	Investigating the controls on greenhouse gas emission in the riparian zone of a small headwater catchment using an automated monitoring system. **2021**, 20, e20149		0
152	Interactive role of topography and best management practices on N2O emissions from agricultural landscape. **2021**, 212, 105063		7
151	Soil greenhouse gas fluxes from a humid tropical forest and differently managed urban parkland in Singapore. *Science of the Total Environment*, **2021**, 786, 147305	10.2	0
150	Steering microbiomes by organic amendments towards climate-smart agricultural soils. **2021**, 57, 1053		3
149	Plausible impacts of fall manuring on cover crop production and spring nitrous oxide emissions under climate change in southern Quebec, Canada. *Agriculture, Ecosystems and Environment*, **2021**, 321, 107620	5.7	
148	Freeze-thaw cycles release nitrous oxide produced in frozen agricultural soils. **2021**, 57, 389-398		3
147	Use of Biochar in Sustainable Agriculture. **2019**, 501-528		1
146	Temperate and Boreal Old-Growth Forests: How do Their Growth Dynamics and Biodiversity Differ from Young Stands and Managed Forests?. **2009**, 343-366		15
145	The Isotopomers of Nitrous Oxide: Analytical Considerations and Application to Resolution of Microbial Production Pathways. **2012**, 453-476		39
144	The Impact of Climate Change on Lakes in Central Europe. **2010**, 387-409		34
143	Nutrient and Water Limitations on Carbon Sequestration in Forests. **2010**, 207-239		2
142	Encyclopedia of Agrophysics. **2011**, 351-354		1
141	Biofuels, Greenhouse Gases and Climate Change. **2011**, 365-468		11

140	Global Sources of Nitrous Oxide. **2013**, 131-175	3
139	Conservation Agriculture: Perspectives on Soil and Environmental Management in Indo-Gangetic Plains of South Asia. **2019**, 123-168	2
138	Nitrous oxide fluxes of a boreal abandoned pasture do not significantly differ from an adjacent natural bog despite distinct environmental conditions. *Science of the Total Environment*, **2020**, 714, 136648	10.2 1
137	Truncated denitrifiers dominate the denitrification pathway in tundra soil metagenomes.	5
136	Direct and Indirect Greenhouse Gas Emissions from Vertical Flow Constructed Wetland Planted with Forage Rice. **2010**, 36, 229-236	8
135	Intergenomic comparisons highlight modularity of the denitrification pathway and underpin the importance of community structure for N2O emissions. **2014**, 9, e114118	238
134	Effects of Environmental Drivers and Agricultural Management on Soil CO2 and N2O Emissions. **2021**, 11, 54	2
133	Lachgas: Hotspots im pflanzenbaulichen Produktionssystem. **2015**, 707-717	1
132	Research advances on source/sink intensities and greenhouse effects of CO2, CH4 and N2O in agricultural soils. **2011**, 19, 966-975	16
131	Soil greenhouse gas emission in winter wheat/summer maize rotation ecosystem as affected by nitrogen fertilization in the Piedmont Plain of Mount Taihang, China. **2012**, 19, 1122-1128	5
130	Evaluation of Parametric Limitations in Simulating Greenhouse Gas Fluxes from Irish Arable Soils Using Three Process-Based Models. **2016**, 07, 503-520	2
129	Regional N₂O fluxes in Amazonia derived from aircraft vertical profiles.	1
128	Soil greenhouse gas fluxes from different tree species on Taihang Mountain, North China.	2
127	High temporal frequency measurements of greenhouse gas emissions from soils.	2
126	Nitrous oxide emissions from maize-wheat field during four successive years in the North China Plain.	3
125	N₂O, NO, N₂, and CO₂ emissions from tropical savanna and grassland of Northern Australia: an incubation experiment with intact soil cores.	1
124	The fate of N₂O consumed in soils.	3
123	A case study of eddy covariance flux of N₂O measured within forest ecosystems: quality control and flux error analysis.	2

122	From biota to chemistry and climate: towards a comprehensive description of trace gas exchange between the biosphere and atmosphere.	6
121	Quantifying nitrous oxide emissions from Chinese grasslands with a process-based model.	3
120	Multiple-factor controls on terrestrial N₂O flux over North America from 1979 through 2010.	2
119	Impact of extreme precipitation and water table change on N₂O fluxes in a bio-energy poplar plantation.	14
118	Soil CO₂, CH₄, and N₂O fluxes from an afforested lowland raised peatbog in Scotland: implications for drainage and restoration.	3
117	Eddy covariance for quantifying trace gas fluxes from soils.	1
116	Ecological response of Cedrus atlantica to climate variability in the Massif of Guetiane (Algeria). **2014**, 23, 448	20
115	Greenhouse Gas Production, Diffusion and Consumption in a Soil Profile Under Maize and Wheat Production. *SSRN Electronic Journal*,	1
114	Yield-scaled greenhouse gas emissions from the use of common urea and controlled-release nitrogen fertiliser in a subtropical paddy rice field. **2021**,	0
113	Combination of Compost and Mineral Fertilizers as an Option for Enhancing Maize (Zea mays L.) Yields and Mitigating Greenhouse Gas Emissions from a Nitisol in Ethiopia. **2021**, 11, 2097	2
112	Freezing and thawing cycles affect nitrous oxide emissions in rain-fed lucerne () grasslands of different ages. **2021**, 9, e12216	
111	Nitrous Oxide Emission and Crop Yield in Arable Soil Amended with Bottom Ash. **2021**, 11, 1012	2
110	CH4 and N2O Emissions From Cattle Excreta: A Review of Main Drivers and Mitigation Strategies in Grazing Systems. **2021**, 5,	1
109	Short-term response of soil greenhouse gas fluxes to alfalfa termination methods in a Mediterranean cropping system. 1-9	3
108	Carbon dynamics and soil greenhouse fluxes in a Florida's native rangeland before and after fire. **2021**, 311, 108682	0
107	Nitrous Oxide Emission from Crop Fields and Its Role in Atmospheric Radiative Forcing. **2009**, 147-190	
106	Spatial and temporal patterns of CH₄ and N₂O fluxes in terrestrial ecosystems of North America during 1979–2008: application of a global biogeochemistry model.	
105	Forest Biogeochemistry and Drought. **2011**, 581-597	

104	Soil CO2 Fluxes from Different Ages of Oil Palm in Tropical Peatland of Sarawak, Malaysia. **2014**, 447-455		0
103	Methane and nitrous oxide exchange over a managed hay meadow.		
102	Nitrous oxide emission hotspots from organic soils in Europe.		
101	Analysing the Relationship Between Tree-Ring Growth of Quercus acutissima and Climatic Variables by Dendroclimatological Method. **2015**, 17, 93-101		1
100	Effect of Decomposition on Nitrogen Dynamics in Soil Applied with Compost and Rye. **2015**, 48, 648-657		1
99	Measurement of Nitrous Oxide Emissions on the Cultivation of Soybean by No-Tillage and Conventional-Tillage in Upland Soil. **2015**, 48, 610-617		2
98	An Evaluation of Grass Species as Feedstocks for Combustion in Ireland. **2016**, 95-102		
97	Modeling Soil Dynamic Processes. 547-577		
96	No-Till Farming Systems to Reduce Nitrous Oxide Emissions and Increase Methane Uptake. **2020**, 319-335		
95	Short- and long-term temperature responses of soil denitrifier net N₂O efflux rates, inter-profile N₂O dynamics, and microbial genetic potentials. **2020**, 6, 399-412		
94	Nitrous Oxide Emissions from Smallholders□Cropping Systems in Sub-Saharan Africa. **2021**, 2021, 1-13		0
93	Greenhouse gas emissions from cattle dung depositions in two forage fields with contrasting biological nitrification inhibition (BNI) capacity.. *Geoderma*, **2022**, 406, 115516	6.7	0
92	Unimodal response of N2O flux to changing rainfall amount and frequency in a wet meadow in the Tibetan Plateau. **2022**, 174, 106461		1
91	Nitrous Oxide (N2O) Emissions from Forests, Grasslands and Agricultural Soils in Northern Spain. **2020**, 341-349		1
90	Emission of Greenhouse Gases from Soil: An Assessment of Agricultural Management Practices. **2020**, 221-248		
89	Nitrous Oxide Consumption Potential in a Semi-Arid Agricultural System: Effects of Conservation Soil Management and Nitrogen Timing on nosZ Mediated N2O Consumption. **2021**, 9,		0
88	NO emission dynamics along an intertidal elevation gradient in a subtropical estuary: Importance of NO consumption. *Environmental Research*, **2021**, 205, 112432	7.9	0
87	Gasphase im Boden(Prozesse und Konzentrationen). 1-32		

86	Microbial Respiration and Nitrogen and Phosphorus Mineralization in Cow Dung-Amended Soils Depending on Moisture Contents: a Microcosm Study. 1		
85	Nitrous oxide flux observed with tall-tower eddy covariance over a heterogeneous rice cultivation landscape. *Science of the Total Environment*, **2021**, 810, 152210	10.2	0
84	Prior nitrogen fertilization stimulated N2O emission from rice cultivation season under a rapeseed-rice production system. **2022**, 471, 685		0
83	Soil moisture determines nitrous oxide emission and uptake.. *Science of the Total Environment*, **2022**, 822, 153566	10.2	0
82	Quality of Sediment Organic Matter Determines the Intertidal N 2 O Response to Global Warming. **2022**, 127,		1
81	Assessing seasonal variation of diffusive nitrous oxide emission from freshwater wetland in Keibul Lamjao National Park, Manipur Northeast India. **2022**, 13, 100147		1
80	Pathways of soil NO uptake, consumption, and its driving factors: a review.. **2022**, 1		2
79	Soil NO emission in Cinnamomum camphora plantations along an urbanization gradient altered by changes in litter input and microbial community composition.. **2022**, 299, 118876		0
78	The Synergetic Effect of Soil Amendments on Reducing Bioavailable Heavy Metals and Greenhouse Gas Emissions from Upland Soil. **2022**, 12, 246		
77	Evaluation of indirect and direct scoring methods to relate biochemical soil quality indicators to ecosystem services.		0
76	Roots and other residues from leys with or without red clover: Quality and effects on NO emission factors in a partly frozen soil following autumn ploughing.. *Science of the Total Environment*, **2022**, 154582	10.2	
75	Nutrient Management Drives the Direction and Magnitude of Nitrous Oxide Flux in Crop Residue-Returned Soil Under Different Soil Moisture. **2022**, 10,		1
74	Plants Mitigate Nitrous Oxide Emissions from Antibiotic-Contaminated Agricultural Soils.. **2022**,		0
73	Management Strategies to Mitigate NO Emissions in Agriculture.. **2022**, 12,		2
72	Contribution of Litter Layer to Greenhouse Gas Fluxes between Atmosphere and Soil Varies with Forest Succession. **2022**, 13, 544		0
71	Reduced Soil Gross N 2 O Emission Driven by Substrates Rather Than Denitrification Gene Abundance in Cropland Agroforestry and Monoculture. **2022**, 127,		0
70	Effect of straw incorporation and nitrification inhibitor on nitrous oxide emission in three cropland soils.		
69	Using isotope pool dilution to understand how organic carbon additions affect N O consumption in diverse soils.. *Global Change Biology*, **2022**,	11.4	1

68	No-till farming and greenhouse gas fluxes: Insights from literature and experimental data. **2022**, 220, 105359		1
67	Soil pH-increase strongly mitigated NO emissions following ploughing of grass and clover swards in autumn: A winter field study.. *Science of the Total Environment*, **2022**, 154059	10.2	
66	Thawing Yedoma permafrost is a neglected nitrous oxide source. **2021**, 12, 7107		5
65	Dynamics of methane and carbon dioxide emissions in the reclaimed islands of Sundarban mangrove ecosystem, India. **2022**, 47, 412-427		2
64	Fluoroalkylether compounds affect microbial community structures and abundance of nitrogen cycle-related genes in soil-microbe-plant systems. **2021**, 228, 113033		2
63	Soil N2O and CH4 emissions from fodder maize production with and without riparian buffer strips of differing vegetation. 1		0
62	Data_Sheet_1.docx. **2019**,		
61	Data_Sheet_1.docx. **2020**,		
60	The contribution of nirK gene-containing thaumarchaea to denitrification and N2O production across coastal sediment and terrestrial ecosystems. *Journal of Soils and Sediments*, 1	3.4	0
59	Nitrogen and Biochar Addition Affected Plant Traits and Nitrous Oxide Emission From Cinnamomum camphora. *Frontiers in Plant Science*, **2022**, 13,	6.2	
58	How can process-based modeling improve peat CO2 and N2O emission factors for oil palm plantations?. *Science of the Total Environment*, **2022**, 156153	10.2	0
57	Effects of water regimes on soil N2O, CH4 and CO2 emissions following addition of dicyandiamide and N fertilizer. *Environmental Research*, **2022**, 113544	7.9	1
56	Utilizing Novel Field and Data Exploration Methods to Explore Hot Moments in High-Frequency Soil Nitrous Oxide Emissions Data: Opportunities and Challenges. *Frontiers in Forests and Global Change*, **2022**, 5,	3.7	
55	Spatial Scaling Effects to Enhance the Prediction for the Temporal Changes of Soil Nitrogen Density From 2007 to 2017 in Different Climatic Basins. *Frontiers in Ecology and Evolution*, **2022**, 10,	3.7	
54	Riparian buffer strips influence nitrogen losses as nitrous oxide and leached N from upslope permanent pasture. *Agriculture, Ecosystems and Environment*, **2022**, 336, 108031	5.7	1
53	Soil Respiration, Soil Nutrients and Stoichiometry Under Two Contrasting Planted Forests in Lower Indian Himalaya. *SSRN Electronic Journal*,	1	
52	Landslides: An emerging model for ecosystem and soil chronosequence research. *Earth-Science Reviews*, **2022**, 231, 104064	10.2	0
51	Simulated warming and low O2 promote N2O and N2 emissions in subtropical montane forest soil. *Journal of Soils and Sediments*,	3.4	0

50	Summer greenhouse gas fluxes in different types of hemiboreal lakes. *Science of the Total Environment*, **2022**, 156732	10.2	
49	Control of regional climate on carbon and nitrogen turnover and their stable isotopic compositions in Indian soils. *Geoderma Regional*, **2022**, 30, e00539	2.7	0
48	In-depth characterization of denitrifier communities across different soil ecosystems in the tundra. *Environmental Microbiomes*, **2022**, 17,	5.6	1
47	Introduction of a guideline for measurements of greenhouse gas fluxes from soils using non-steady-state chambers. *Journal of Plant Nutrition and Soil Science*,	2.3	0
46	Nitrogen Addition Affects Nitrous Oxide Emissions of Rainfed Lucerne Grassland. *International Journal of Environmental Research and Public Health*, **2022**, 19, 7789	4.6	
45	Estimating Nitrogen Use Efficiency, Profitability, and Greenhouse Gas Emission Using Different Methods of Fertilization. *Frontiers in Plant Science*, 13,	6.2	0
44	Stronger link of nosZI than nosZII to the higher total N2O consumption in anoxic paddy surface soils. *Geoderma*, **2022**, 425, 116035	6.7	0
43	Net greenhouse gas balance with cover crops in semi-arid irrigated cropping systems. *Scientific Reports*, **2022**, 12,	4.9	
42	Effect of nitrification inhibitor (DMPP) on nitrous oxide emissions from agricultural fields: Automated and manual measurements. *Science of the Total Environment*, **2022**, 157650	10.2	
41	Impacts of Soil Moisture and Fertilizer on N2O Emissions from Cornfield Soil in a Karst Watershed, SW China. **2022**, 13, 1200		0
40	Soil moisture□tmosphere feedback dominates land N 2 O nitrification emissions and denitrification reduction.		0
39	Low pH inhibits soil nosZ without affecting N2O uptake.		1
38	How do land cover changes affect carbon-nitrogen-phosphorus stocks and the greenhouse gas budget of ecosystems in southern Chile?. **2022**, 340, 108153		0
37	Soil greenhouse gases emissions in a goat production system in the Brazilian semiarid region. 52,		0
36	Process-based modeling of soil nitrous oxide emissions from United States corn fields under different management and climate scenarios coupled with evaluation using regional estimates. 10,		0
35	Effects of mild alternate wetting and drying irrigation and rice straw application on N2O emissions in rice cultivation. **2022**, 8, 645-654		0
34	Carbon Footprint Management by Agricultural Practices. **2022**, 11, 1453		4
33	Condensed and Hydrolyzable Tannins for Reducing Methane and Nitrous Oxide Emissions in Dairy Manure□ Laboratory Incubation Study. **2022**, 12, 2876		0

32	Effects of liming on oxic and anoxic N2O and CO2 production in different horizons of boreal acid sulfate soil and non-acid soil under controlled conditions. **2023**, 857, 159505	0
31	Deep Drainage Lowers Methane and Nitrous Oxide Emissions from Rice Fields in a Semi-Arid Environment in Rwanda. **2022**, 6, 84	0
30	Influence of rewetting on N2O emissions in three different fen types.	0
29	Partial substitution of manure reduces nitrous oxide emission with maintained yield in a winter wheat crop. **2023**, 326, 116794	0
28	Carbon Sequestration Dynamics of Tree Species in Dry Forest. **2022**, 315-322	0
27	Shifts in the spatiotemporal distribution and sources of nitrous oxide in sediment cores from the Bohai Sea and South Yellow Sea. **2023**, 186, 114390	0
26	Nitrous oxide emissions from vermicompost preparation and application phases: Emission factors based on a meta-analysis. **2023**, 183, 104769	0
25	Responses of N2O emissions to straw addition under different tillage soils: A 15N labelling study. **2023**, 183, 104744	0
24	The Effect of Harvest on Forest Soil N2O Fluxes: A Review. **2022**,	0
23	The relationship between succession and reclamation of desertified areas in artificial forests of Calligonum spp. in an arid desert of southeastern Iran. 10,	0
22	Waterlogging effects on N2O and N2 emissions from a Stagnosol cultivated with Silphium perfoliatum and silage maize.	0
21	Greenhouse gas emissions from Silphium perfoliatum and silage maize cropping on Stagnosols.	0
20	Soils of HKH Region. **2022**, 145-294	0
19	Greenhouse gas production, diffusion and consumption in a soil profile under maize and wheat production. **2023**, 430, 116310	0
18	Applying struvite as a N-fertilizer to mitigate N2O emissions in agriculture: Feasibility and mechanism. **2023**, 330, 117143	0
17	Strong N2O uptake capacity of paddy soil under different water conditions. **2023**, 278, 108146	0
16	Nitrous oxide emission from a flooded tropical wetland across a vegetation and land use gradient.	0
15	Soil pH management for mitigating N2O emissions through nosZ (Clade I and II) gene abundance in rice paddy system. **2023**, 225, 115542	0

14	Deepened snow in combination with summer warming increases growing season nitrous oxide emissions in dry tundra, but not in wet tundra. **2023**, 180, 109013	0
13	Greenhouse gases fluxes and carbon cycle in agroecosystems under humid continental climate conditions. **2023**, 352, 108502	0
12	Recycling eutrophic lake sediments into grass production: A four-year field experiment on agronomical and environmental implications. **2023**, 870, 161881	0
11	Structure and function of forested soils. **2023**,	0
10	EFFECT OF SOIL PHYSICAL PROPERTIES ON N2O ISOTOPE FORMATION. **2022**,	0
9	Spatiotemporal patterns and drivers of greenhouse gas fluxes in the sub-tropical wetland ecosystem of Indian Himalayan foothill.	0
8	Increased N2O emission due to paddy soil drainage is regulated by carbon and nitrogen availability. **2023**, 432, 116422	0
7	Mycorrhiza-mediated recruitment of complete denitrifying Pseudomonas reduces N2O emissions from soil. **2023**, 11,	0
6	Effects of limed manure digestate application in sandy soil on plant nitrogen availability and soil N2O emissions. **2023**, 1, 100006	0
5	Soil-atmosphere exchange of carbon dioxide, methane and nitrous oxide in temperate forests along an elevation gradient in the Qinling Mountains, China.	0
4	Grazing weakens N-addition effects on soil greenhouse gas emissions in a semi-arid grassland. **2023** , 333, 109423	0
3	Soil nitrous oxide emissions from a soybean-wheat succession under different tillage systems in Southern Brazil. **2023**, 47,	0
2	Nitrous Oxide Fluxes in Permafrost Peatlands Remain Negligible After Wildfire and Thermokarst Disturbance. **2023**, 128,	0
1	Reviewing the N-gap in livestock manure systems: Direct and indirect methods for measuring N losses and perspectives for quantifying N2 emission. **2023**, 229, 179-199	0