Shigehiro Ishizuka

List of Publications by Year
in descending order

58 papers	1,592 citations	218677 26 h-index	330143 37 g-index
60 all docs	60 docs citations	60 times ranked	1750 citing authors

#	Article	IF	Citations
1	An intensive field study on CO2, CH4, and N2O emissions from soils at four land-use types in Sumatra, Indonesia. Global Biogeochemical Cycles, 2002, 16, 22-1-22-11.	4.9	100
2	Methane emissions from stems of Fraxinus mandshurica var. japonica trees in a floodplain forest. Soil Biology and Biochemistry, 2007, 39, 2689-2692.	8.8	93
3	Effects of phosphorus addition on N₂O and NO emissions from soils of an<i>Acacia mangium</i>plantation. Soil Science and Plant Nutrition, 2010, 56, 782-788.	1.9	83
4	The variation of greenhouse gas emissions from soils of various land-use/cover types in Jambi province, Indonesia. Nutrient Cycling in Agroecosystems, 2005, 71, 17-32.	2.2	74
5	Seasonal changes in the spatial structures of N2O, CO2, and CH4 fluxes from Acacia mangium plantation soils in Indonesia. Soil Biology and Biochemistry, 2010, 42, 1512-1522.	8.8	61
6	Spatial structures of N2O, CO2, and CH4 fluxes from Acacia mangium plantation soils during a relatively dry season in Indonesia. Soil Biology and Biochemistry, 2008, 40, 3021-3030.	8.8	60
7	Effects of phosphorus addition with and without ammonium, nitrate, or glucose on N2O and NO emissions from soil sampled under Acacia mangium plantation and incubated at 100Â% of the water-filled pore space. Biology and Fertility of Soils, 2013, 49, 13-21.	4.3	56
8	A pedotransfer function for estimating bulk density of forest soil in Japan affected by volcanic ash. Geoderma, 2014, 213, 36-45.	5.1	54
9	Methane uptake and nitrous oxide emission in Japanese forest soils and their relationship to soil and vegetation types. Soil Science and Plant Nutrition, 2007, 53, 678-691.	1.9	53
10	Methane oxidation in Japanese forest soils. Soil Biology and Biochemistry, 2000, 32, 769-777.	8.8	49
11	Spatial patterns of greenhouse gas emission in a tropical rainforest in Indonesia. Nutrient Cycling in Agroecosystems, 2005, 71, 55-62.	2.2	46
12	Quantitative aspects of heterogeneity in soil organic matter dynamics in a coolâ€temperate Japanese beech forest: a radiocarbonâ€based approach. Global Change Biology, 2009, 15, 631-642.	9.5	46
13	Phosphorus application reduces N2O emissions from tropical leguminous plantation soil when phosphorus uptake is occurring. Biology and Fertility of Soils, 2014, 50, 45-51.	4.3	43
14	Spatial and temporal variability in methane emissions from tree stems of Fraxinus mandshurica in a cool-temperate floodplain forest. Biogeochemistry, 2015, 123, 349-362.	3.5	42
15	Methane uptake rates in Japanese forest soils depend on the oxidation ability of topsoil, with a new estimate for global methane uptake in temperate forest. Biogeochemistry, 2009, 92, 281-295.	3.5	39
16	Carbon stock in litter, deadwood and soil in Japanâ€™s forest sector and its comparison with carbon stock in agricultural soils. Soil Science and Plant Nutrition, 2010, 56, 19-30.	1.9	38
17	Potential N₂O emissions from leguminous tree plantation soils in the humid tropics. Global Biogeochemical Cycles, 2008, 22, .	4.9	36
18	Simple models for soil CO2, CH4, and N2O fluxes calibrated using a Bayesian approach and multi-site data. Ecological Modelling, 2011, 222, 1283-1292.	2.5	36

#	Article	IF	Citations
19	Soil greenhouse gas fluxes and C stocks as affected by phosphorus addition in a newly established Acacia mangium plantation in Indonesia. Forest Ecology and Management, 2013, 310, 643-651.	3.2	36
20	Methane flux and regulatory variables in soils of three equal-aged Japanese cypress (Chamaecyparis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.8	35
21	Seasonal patterns and control factors of CO2 effluxes from surface litter, soil organic carbon, and root-derived carbon estimated using radiocarbon signatures. Agricultural and Forest Meteorology, 2012, 152, 149-158.	4.8	34
22	Assessing changes in soil carbon stocks after land use conversion from forest land to agricultural land in Japan. Geoderma, 2020, 377, 114487.	5.1	30
23	Continuous estimation of winter carbon dioxide efflux from the snow surface in a deciduous broadleaf forest. Journal of Geophysical Research, 2006, 111, .	3.3	28
24	Water-soluble Al inhibits methane oxidation at atmospheric concentration levels in Japanese forest soil. Soil Biology and Biochemistry, 2007, 39, 1730-1736.	8.8	28
25	Increasing trends of soil greenhouse gas fluxes in Japanese forests from 1980 to 2009. Scientific Reports, 2011, 1, 116.	3.3	28
26	Spatiotemporal variation in N2O flux within a slope in a Japanese cedar (Cryptomeria japonica) forest. Biogeochemistry, 2009, 96, 163-175.	3.5	26
27	Simultaneous enzymatic saccharification and comminution for the valorization of lignocellulosic biomass toward natural products. BMC Biotechnology, 2018, 18, 79.	3.3	21
28	Temperature controls temporal variation in soil CO₂efflux in a secondary beech forest in Appi Highlands, Japan. Journal of Forest Research, 2009, 14, 44-50.	1.4	20
29	Separation of soil respiration into CO2emission sources using13C natural abundance in a deciduous broad-leaved forest in Japan. Soil Science and Plant Nutrition, 2007, 53, 328-336.	1.9	16
30	Spatial variations in nitrous oxide and nitric oxide emission potential on a slope of Japanese cedar (<i>Cryptomeria japonica</i>) forest. Soil Science and Plant Nutrition, 2009, 55, 179-189.	1.9	16
31	Microbial processes responsible for nitrous oxide production from acid soils in different land-use patterns in Pasirmayang, central Sumatra, Indonesia. Nutrient Cycling in Agroecosystems, 2005, 71, 33-42.	2.2	15
32	Effects of phosphorus application on root respiration and heterotrophic microbial respiration in Acacia mangium plantation soil. Tropics, 2013, 22, 113-118.	0.8	15
33	Effects of phosphorus and nitrogen addition on heterotrophic respiration in an Acacia mangium plantation soil in South Sumatra, Indonesia. Tropics, 2013, 22, 83-87.	0.8	15
34	Plant trait database for <i>Cryptomeria japonica</i> and <i>Chamaecyparis obtusa</i> (SugiHinoki DB): Their physiology, morphology, anatomy and biochemistry. Ecological Research, 2020, 35, 274-275.	1.5	15
35	Relationship between N₂O and NO emission potentials and soil properties in Japanese forest soils. Soil Science and Plant Nutrition, 2009, 55, 203-214.	1.9	14
36	Phosphorus addition reduced microbial respiration during the decomposition of<i> Acacia mangium</i> litter in South Sumatra, Indonesia. Tropics, 2015, 24, 113-118.	0.8	14

#	Article	IF	Citations
37	Assessment of soil group, site and climatic effects on soil organic carbon stocks of topsoil in <scp>J</scp>apanese forests. European Journal of Soil Science, 2017, 68, 547-558.	3.9	14
38	Effects of phosphorus addition on N₂O emissions from an <i>Acacia mangium</i> soil in relatively aerobic condition. Tropics, 2016, 25, 117-125.	0.8	13
39	Wood density and carbon and nitrogen concentrations in deadwood of<i>Chamaecyparis obtusa</i>and<i>Cryptomeria japonica</i>. Soil Science and Plant Nutrition, 2012, 58, 526-537.	1.9	11
40	Quantifying lignin and holocellulose content in coniferous decayed wood using near-infrared reflectance spectroscopy. Journal of Forest Research, 2014, 19, 233-237.	1.4	11
41	National-scale 3D mapping of soil organic carbon in a Japanese forest considering microtopography and tephra deposition. Geoderma, 2022, 406, 115534.	5.1	10
42	Ecological Impact on Nitrogen and Phosphorus Cycling of a Widespread Fast-growing Leguminous Tropical Forest Plantation Tree Species, Acacia mangium. Diversity, 2011, 3, 712-720.	1.7	9
43	Seasonal and weather-related controls on methane emissions from the stems of mature trees in a cool-temperate forested wetland. Biogeochemistry, 2021, 156, 211-230.	3.5	8
44	Phosphorus limitation on CO<inf>2</inf>, N<inf>2</inf>O, and NO emissions from a tropical humid forest soil of South Sumatra, Indonesia. , 2010, , .		7
45	Estimating spatial variation in the effects of climate change on the net primary production of Japanese cedar plantations based on modeled carbon dynamics. PLoS ONE, 2021, 16, e0247165.	2.5	7
46	Sediment and carbon storages in the Yahagi River Delta during the Holocene, central Japan. Quaternary Science Reviews, 2009, 28, 1472-1480.	3.0	6
47	Effects of phosphorus application on CH4 fluxes in an Acacia mangium plantation with and without root exclusion. Tropics, 2013, 22, 13-17.	0.8	6
48	Latitudinal gradient of C4 grass contribution to Black Soil organic carbon and correlation between Î´13C and the melanic index in Japanese forest stands. Biogeochemistry, 2014, 118, 339-355.	3.5	6
49	Contribution of Past C4 Plants Estimated from .DELTA.13C Values of Soil Organic Matter to the Black Soil Genesis in Hakkoda Mountain, Northeast Japan.. The Quaternary Research, 1999, 38, 85-92.	0.1	6
50	Effects of conversion from leguminous acacia to non-leguminous eucalyptus on soil N2O emissions in tropical monoculture plantations. Forest Ecology and Management, 2021, 481, 118702.	3.2	5
51	POTASSIUM AND MAGNESIUM IN LEAF AND TOP SOIL AFFECTED BY TRIPLE SUPERPHOSPHATE FERTILISATION IN AN ACACIA MANGIUM PLANTATION. Journal of Tropical Forest Science, 2018, 30, 1-8.	0.2	4
52	Predicting deadwood densities of Cryptomeria japonica and Chamaecyparis obtusa forests using a generalized linear mixed model with a national-scale dataset. Forest Ecology and Management, 2013, 295, 228-238.	3.2	3
53	N2O emissions in Acacia mangium stands with different ages, in Sumatra, Indonesia. Forest Ecology and Management, 2021, 498, 119539.	3.2	3
54	Effect of Soil Air Volume Change on CH₄Consumption in Brown Forest Soil. Journal of Forest Research, 2001, 6, 311-313.	1.4	2

#	Article	IF	Citations
55	Isotopic assessment of CO_2 production through soil organic matter decomposition in the tropics. Nutrient Cycling in Agroecosystems, 2005, 71, 109-116.	2.2	2
56	Soil carbon stock changes due to afforestation in Japan by the paired sampling method on an equivalent mass basis. Biogeochemistry, 2021, 153, 263-281.	3.5	2
57	Calculation procedures to estimate fine root production rates in forests using two-dimensional fine root data obtained by the net sheet method. Tree Physiology, 2017, 37, 697-705.	3.1	1
58	Tree manipulation experiment for the short-term effect of tree cutting on N_2O emission: A evaluation using Bayesian hierarchical modeling. Environmental Pollution, 2021, 288, 117725.	7.5	1