

Shigehiro Ishizuka

List of Publications by Year in descending order

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58
papers

1,592
citations

218677

26
h-index

330143

37
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60
all docs

60
docs citations

60
times ranked

1750
citing authors

#	ARTICLE	IF	CITATIONS
1	National-scale 3D mapping of soil organic carbon in a Japanese forest considering microtopography and tephra deposition. <i>Geoderma</i> , 2022, 406, 115534.	5.1	10
2	Effects of conversion from leguminous acacia to non-leguminous eucalyptus on soil N ₂ O emissions in tropical monoculture plantations. <i>Forest Ecology and Management</i> , 2021, 481, 118702.	3.2	5
3	Estimating spatial variation in the effects of climate change on the net primary production of Japanese cedar plantations based on modeled carbon dynamics. <i>PLoS ONE</i> , 2021, 16, e0247165.	2.5	7
4	Soil carbon stock changes due to afforestation in Japan by the paired sampling method on an equivalent mass basis. <i>Biogeochemistry</i> , 2021, 153, 263-281.	3.5	2
5	Seasonal and weather-related controls on methane emissions from the stems of mature trees in a cool-temperate forested wetland. <i>Biogeochemistry</i> , 2021, 156, 211-230.	3.5	8
6	N ₂ O emissions in <i>Acacia mangium</i> stands with different ages, in Sumatra, Indonesia. <i>Forest Ecology and Management</i> , 2021, 498, 119539.	3.2	3
7	Tree manipulation experiment for the short-term effect of tree cutting on N ₂ O emission: A evaluation using Bayesian hierarchical modeling. <i>Environmental Pollution</i> , 2021, 288, 117725.	7.5	1
8	Plant trait database for <i>Cryptomeria japonica</i> and <i>Chamaecyparis obtusa</i> (SugiHinoki DB): Their physiology, morphology, anatomy and biochemistry. <i>Ecological Research</i> , 2020, 35, 274-275.	1.5	15
9	Assessing changes in soil carbon stocks after land use conversion from forest land to agricultural land in Japan. <i>Geoderma</i> , 2020, 377, 114487.	5.1	30
10	Simultaneous enzymatic saccharification and comminution for the valorization of lignocellulosic biomass toward natural products. <i>BMC Biotechnology</i> , 2018, 18, 79.	3.3	21
11	POTASSIUM AND MAGNESIUM IN LEAF AND TOP SOIL AFFECTED BY TRIPLE SUPERPHOSPHATE FERTILISATION IN AN ACACIA MANGIUM PLANTATION. <i>Journal of Tropical Forest Science</i> , 2018, 30, 1-8.	0.2	4
12	Assessment of soil group, site and climatic effects on soil organic carbon stocks of topsoil in Japanese forests. <i>European Journal of Soil Science</i> , 2017, 68, 547-558.	3.9	14
13	Calculation procedures to estimate fine root production rates in forests using two-dimensional fine root data obtained by the net sheet method. <i>Tree Physiology</i> , 2017, 37, 697-705.	3.1	1
14	Effects of phosphorus addition on N ₂ O emissions from an <i>Acacia mangium</i> soil in relatively aerobic condition. <i>Tropics</i> , 2016, 25, 117-125.	0.8	13
15	Phosphorus addition reduced microbial respiration during the decomposition of <i>Acacia mangium</i> litter in South Sumatra, Indonesia. <i>Tropics</i> , 2015, 24, 113-118.	0.8	14
16	Spatial and temporal variability in methane emissions from tree stems of <i>Fraxinus mandshurica</i> in a cool-temperate floodplain forest. <i>Biogeochemistry</i> , 2015, 123, 349-362.	3.5	42
17	A pedotransfer function for estimating bulk density of forest soil in Japan affected by volcanic ash. <i>Geoderma</i> , 2014, 213, 36-45.	5.1	54
18	Phosphorus application reduces N ₂ O emissions from tropical leguminous plantation soil when phosphorus uptake is occurring. <i>Biology and Fertility of Soils</i> , 2014, 50, 45-51.	4.3	43

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19	Quantifying lignin and holocellulose content in coniferous decayed wood using near-infrared reflectance spectroscopy. <i>Journal of Forest Research</i> , 2014, 19, 233-237.	1.4	11
20	Latitudinal gradient of C4 grass contribution to Black Soil organic carbon and correlation between $\delta^{13}\text{C}$ and the melanin index in Japanese forest stands. <i>Biogeochemistry</i> , 2014, 118, 339-355.	3.5	6
21	Soil greenhouse gas fluxes and C stocks as affected by phosphorus addition in a newly established <i>Acacia mangium</i> plantation in Indonesia. <i>Forest Ecology and Management</i> , 2013, 310, 643-651.	3.2	36
22	Predicting deadwood densities of <i>Cryptomeria japonica</i> and <i>Chamaecyparis obtusa</i> forests using a generalized linear mixed model with a national-scale dataset. <i>Forest Ecology and Management</i> , 2013, 295, 228-238.	3.2	3
23	Effects of phosphorus addition with and without ammonium, nitrate, or glucose on N_2O and NO emissions from soil sampled under <i>Acacia mangium</i> plantation and incubated at 100% of the water-filled pore space. <i>Biology and Fertility of Soils</i> , 2013, 49, 13-21.	4.3	56
24	Effects of phosphorus application on root respiration and heterotrophic microbial respiration in <i>Acacia mangium</i> plantation soil. <i>Tropics</i> , 2013, 22, 113-118.	0.8	15
25	Effects of phosphorus and nitrogen addition on heterotrophic respiration in an <i>Acacia mangium</i> plantation soil in South Sumatra, Indonesia. <i>Tropics</i> , 2013, 22, 83-87.	0.8	15
26	Effects of phosphorus application on CH_4 fluxes in an <i>Acacia mangium</i> plantation with and without root exclusion. <i>Tropics</i> , 2013, 22, 13-17.	0.8	6
27	Wood density and carbon and nitrogen concentrations in deadwood of <i>Chamaecyparis obtusa</i> and <i>Cryptomeria japonica</i> . <i>Soil Science and Plant Nutrition</i> , 2012, 58, 526-537.	1.9	11
28	Seasonal patterns and control factors of CO_2 effluxes from surface litter, soil organic carbon, and root-derived carbon estimated using radiocarbon signatures. <i>Agricultural and Forest Meteorology</i> , 2012, 152, 149-158.	4.8	34
29	Simple models for soil CO_2 , CH_4 , and N_2O fluxes calibrated using a Bayesian approach and multi-site data. <i>Ecological Modelling</i> , 2011, 222, 1283-1292.	2.5	36
30	Increasing trends of soil greenhouse gas fluxes in Japanese forests from 1980 to 2009. <i>Scientific Reports</i> , 2011, 1, 116.	3.3	28
31	Ecological Impact on Nitrogen and Phosphorus Cycling of a Widespread Fast-growing Leguminous Tropical Forest Plantation Tree Species, <i>Acacia mangium</i> . <i>Diversity</i> , 2011, 3, 712-720.	1.7	9
32	Seasonal changes in the spatial structures of N_2O , CO_2 , and CH_4 fluxes from <i>Acacia mangium</i> plantation soils in Indonesia. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1512-1522.	8.8	61
33	Carbon stock in litter, deadwood and soil in Japan's forest sector and its comparison with carbon stock in agricultural soils. <i>Soil Science and Plant Nutrition</i> , 2010, 56, 19-30.	1.9	38
34	Effects of phosphorus addition on N_2O and NO emissions from soils of an <i>Acacia mangium</i> plantation. <i>Soil Science and Plant Nutrition</i> , 2010, 56, 782-788.	1.9	83
35	Phosphorus limitation on CO_2 , N_2O , and NO emissions from a tropical humid forest soil of South Sumatra, Indonesia. , 2010, , .		7
36	Temperature controls temporal variation in soil CO_2 efflux in a secondary beech forest in Appi Highlands, Japan. <i>Journal of Forest Research</i> , 2009, 14, 44-50.	1.4	20

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37	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. <i>Biogeochemistry</i> , 2009, 92, 281-295.	3.5	39
38	Spatiotemporal variation in N ₂ O flux within a slope in a Japanese cedar (<i>Cryptomeria japonica</i>) forest. <i>Biogeochemistry</i> , 2009, 96, 163-175.	3.5	26
39	Quantitative aspects of heterogeneity in soil organic matter dynamics in a cool-temperate Japanese beech forest: a radiocarbon-based approach. <i>Global Change Biology</i> , 2009, 15, 631-642.	9.5	46
40	Spatial variations in nitrous oxide and nitric oxide emission potential on a slope of Japanese cedar (<i>Cryptomeria japonica</i>) forest. <i>Soil Science and Plant Nutrition</i> , 2009, 55, 179-189.	1.9	16
41	Relationship between N ₂ O and NO emission potentials and soil properties in Japanese forest soils. <i>Soil Science and Plant Nutrition</i> , 2009, 55, 203-214.	1.9	14
42	Sediment and carbon storages in the Yahagi River Delta during the Holocene, central Japan. <i>Quaternary Science Reviews</i> , 2009, 28, 1472-1480.	3.0	6
43	Spatial structures of N ₂ O, CO ₂ , and CH ₄ fluxes from <i>Acacia mangium</i> plantation soils during a relatively dry season in Indonesia. <i>Soil Biology and Biochemistry</i> , 2008, 40, 3021-3030.	8.8	60
44	Potential N ₂ O emissions from leguminous tree plantation soils in the humid tropics. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	36
45	Separation of soil respiration into CO ₂ emission sources using ¹³ C natural abundance in a deciduous broad-leaved forest in Japan. <i>Soil Science and Plant Nutrition</i> , 2007, 53, 328-336.	1.9	16
46	Methane uptake and nitrous oxide emission in Japanese forest soils and their relationship to soil and vegetation types. <i>Soil Science and Plant Nutrition</i> , 2007, 53, 678-691.	1.9	53
47	Water-soluble Al inhibits methane oxidation at atmospheric concentration levels in Japanese forest soil. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1730-1736.	8.8	28
48	Methane emissions from stems of <i>Fraxinus mandshurica</i> var. <i>japonica</i> trees in a floodplain forest. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2689-2692.	8.8	93
49	Continuous estimation of winter carbon dioxide efflux from the snow surface in a deciduous broadleaf forest. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	28
50	The variation of greenhouse gas emissions from soils of various land-use/cover types in Jambi province, Indonesia. <i>Nutrient Cycling in Agroecosystems</i> , 2005, 71, 17-32.	2.2	74
51	Microbial processes responsible for nitrous oxide production from acid soils in different land-use patterns in Pasirmayang, central Sumatra, Indonesia. <i>Nutrient Cycling in Agroecosystems</i> , 2005, 71, 33-42.	2.2	15
52	Isotopic assessment of CO ₂ production through soil organic matter decomposition in the tropics. <i>Nutrient Cycling in Agroecosystems</i> , 2005, 71, 109-116.	2.2	2
53	Spatial patterns of greenhouse gas emission in a tropical rainforest in Indonesia. <i>Nutrient Cycling in Agroecosystems</i> , 2005, 71, 55-62.	2.2	46
54	Methane flux and regulatory variables in soils of three equal-aged Japanese cypress (<i>Chamaecyparis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.8	35

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55	An intensive field study on CO ₂ , CH ₄ , and N ₂ O emissions from soils at four land-use types in Sumatra, Indonesia. <i>Global Biogeochemical Cycles</i> , 2002, 16, 22-1-22-11.	4.9	100
56	Effect of Soil Air Volume Change on CH ₄ Consumption in Brown Forest Soil. <i>Journal of Forest Research</i> , 2001, 6, 311-313.	1.4	2
57	Methane oxidation in Japanese forest soils. <i>Soil Biology and Biochemistry</i> , 2000, 32, 769-777.	8.8	49
58	Contribution of Past C ₄ Plants Estimated from $\delta^{13}C$ Values of Soil Organic Matter to the Black Soil Genesis in Hakkoda Mountain, Northeast Japan.. <i>The Quaternary Research</i> , 1999, 38, 85-92.	0.1	6