Publications

1. Official publications

- 1) NIAES Annual Report 2007
- 2) NIAES Research Executive Summary (Japanese ed.) (Kenkyu seika joho), No.24
- 3) Annual Report of National Institute for Agro-Environmental Sciences (Japanese ed.) (Nogyo kankyo gijutsu kenkyusho nenpo), No.24
- 4) NIAES News (Japanese ed.) (No-kan-ken nyusu), No.75 No.78

2. Research Papers published by the NIAES staff

Scientific Papers	English	117
	Japanese	42
	Others	7
Proceedings (incl. Abstracts)	English	223
	Japanese	452
Others	English	33
	Japanese	129
	Others	4

3. Research staff activities (English papers) NIAES staff's names are boldfaced.

Author(s)	Title	Journal Title	Vol.(No.)	Pages	Year
Amano T,	Predicting grazing damage by white-	Journal of Applied Ecol-	44(3)	506-515	2007
Ushiyama K,	fronted geese under different regimes of	ogy			
Fujita G,	agricultural management and the physi-				
Higuchi H	ological consequences for the geese				
Amano T,	Ecological and life-history traits relat-	Biological Conservation	137(2)	271-282	2007
Yamaura Y	ed to range contractions among breeding birds in Japan				
Arakaki N,	Control of the sugarcane click beetle Mel-	Applied Entomology and	43(1)	37-47	2008
Nagayama A,	anotus okinawensis Ohira (Coleoptera:	Zoology			
Kobayashi A,	Elateridae) by mass trapping using syn-				
Kishita M,	thetic sex pheromone on Ikei Island, Oki-				
Sadoyama Y,	nawa, Japan				
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Asano M,	14C variations of pedogenic carbonate	Nuclear Instruments and	259(1)	403-407	2007
Tamura K,	in Mongolian steppe soils under a vegeta-	Methods in Physics Re-			
Maejima Y,	tion sequence	search Section B: Beam			
Matsuzaki H,		Interactions with Materials			
Higashi T		and Atoms			
Baba K,	Zinc, Cadmium, and Mercury 1, 2-Ben-	Inorganic Chemistry	47(7)	2837-2848	2008
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Yamamoto H,	NH···S Hydrogen Bonds				
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Cheng W, Yagi K, Akiyama H, Nishimura S,	An empirical model of soil chemical properties that regulate methane production in Japanese rice paddy soils	Journal of Environmental Quality	36(6)	1920-1925	2007
Sudo S, Fumoto T,					
Hasegawa T, Hartley AE, Megonigal JP					
Chu H, Zhu J, Lin X,	Short-term decomposition of 14C-la- belled glucose in a fluvo-aquic soil as af- fected by lanthanum amendment	Biology and Fertility of Soils	43(6)	811-814	2007
Yin R, Xie Z, Cao Z,					
Fujii T Chu H, Lin X, Fujii T, Morimoto S,	Soil microbial biomass, dehydrogenase activity, bacterial community structure in response to long-term fertilizer management	Soil Biology and Bio- chemistry	39(11)	2971-2976	2007
Yagi K, Hu J, Zhang J					
Dabrowska-Zielinska K, Inoue Y, Kowalik W, Gruszcynska M	Inferring the effect of plant and soil variables on C- and L-band SAR backscatter over agricultural fields, based on model analysis	Advances in Space Research	39(1)	139-148	2007
Ding W, Cai Y, Cai Z, Yagi K,	Nitrous oxide emission from an intensively cultivated maize-wheat rotation soil in the North China Plain	Science of The Total Environment	373(2-3)	501-511	2007
Zheng X Ding W, Cai Y, Cai Z, Yagi K,	Soil respiration under maize crops: Effects of water, temperature, and nitrogen fertilization	Soil Science Society of America Journal	71(3)	944-951	2007
Zheng X Ding W, Yagi K, Akiyama H, Sudo S,	Time-lagged induction of N ₂ O emission and its trade-off with NO emission from a nitrogen fertilized Andisol	Soil science and plant nutrition	53(4)	362-372	2007
Nishimura S Eguchi S, Hasegawa S	Determination and characterization of preferential water flow in unsaturated subsoil of andisol	Soil Science Society of America Journal	72(2)	320-330	2008
Enya J, Koitabashi M, Shinohara H, Yoshida S,	Phylogenetic diversities of dominant culturable <i>bacillus</i> , <i>pseudomonas</i> and <i>pantoea</i> species on tomato leaves and their possibility as biological control agents	Journal of Phytopathology	155(7-8)	446-453	2007
Tsukiboshi T, Negishi H, Suyama K, Tsushima S					
Enya J, Shinohara H, Yoshida S, Tsukiboshi T, Negishi H, Suyama K, Tsushima S	Culturable leaf-associated bacteria on to- mato plants and their potential as biologi- cal control agents	Microbial Ecology	53(4)	524-536	2007
Faize M, Faize L, Ishii H	Characterization of a leucine-rich repeat receptor-like protein kinase (LRPK) gene from Japanese pear and its possible in- volvement in scab resistance	Journal of General Plant Pathology	73(2)	104-112	2007

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Fudeyasu H, Kuwagata T, Ohashi Y, Suzuki S, Kiyohara Y, Hozumi Y	Numerical study of the local downslope wind "Hirodo-Kaze" in Japan	Monthly Weather Review	136(1)	27-40	2008
Fujiwara H, Fukuyama T, Shirato Y, Ohkuro T, Taniyama I, Zhang TH	Deposition of atmospheric ¹³⁷ Cs in Japan associated with the Asian dust event of March 2002	Science of The Total Environment	384(1-3)	306-315	2007
Fumoto T, Kobayashi K, Li C, Yagi K, Hasegawa T	Revising a process-based biogeochemistry model (DNDC) to simulate methane emission from rice paddy fields under various residue management and fertilizer regimes	Global Change Biology	14(2)	382-402	2008
Funamoto R, Saito K, Oyaizu H, Saito M, Aono T	Simultaneous <i>in situ</i> detection of alkaline phosphatase activity and polyphosphate in arbuscules within arbuscular mycorrhizal roots	Functional Plant Biology	34(9)	803-810	2007
Golisz A, Lata B, Gawronski SW, Fujii Y	Specific and total activities of the allelochemicals identified in buckwheat	Weed Biology and Management	7(3)	164-171	2007
Goto S, Kuwagata T, Konghakote P, Polthanee A, Ishigooka Y, Toritani H, Hasegawa T	Characteristics of water balance in a rainfed paddy field in Northeast Thailand	Paddy and water environment	6(1)	153-157	2008
Han GH, Yoshikoshi H, Nagai H, Yamada T, Ono K, Mano M, Miyata A	Isotopic disequilibrium between carbon assimilated and respired in a rice paddy as influenced by methanogenesis from CO ₂	Journal of Geophysical Research G	112	G02016	2007
Hasegawa J, Guruge KS, Seike N, Shirai Y, Yamata T, Nakamura M, Handa H, Yamanaka N, Miyazaki S	Determination of PCDD/Fs and dioxin- like PCBs in fish oils for feed ingredients by congener-specific chemical analysis and CALUX bioassay	Chemosphere	69(8)	1188-1194	2007
Hasegawa T, Sawano S, Goto S, Konghakote P, Polthanee A, Ishigooka Y, Kuwagata T, Toritani H, Furuya J	A model driven by crop water use and nitrogen supply for simulating changes in the regional yield of rain-fed lowland rice in Northeast Thailand	Paddy and water environment	6(1)	73-82	2008

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Furuya J, Ishigooka Y, Hasegawa T, Taniguchi T, Shimizu A, Toritani H, Tada M, Masumoto T					
Hayashi K, Nishimura S, Yagi K	Ammonia volatilization from a paddy field following applications of urea: Rice plants are both an absorber and an emitter for atmospheric ammonia	Science of The Total Environment	390(2-3)	485-494	2008
Hayatsu M, Tago K, Saito M	Vrious players in the nitrogen cycle: Diversity and functions of the microorganisms involved in nitrification and denitrification	Soil science and plant nutrition	54(1)	33-45	2008
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Honda K, Mizukami M, Ueda Y, Hamada N, Seike N	Residue level of polycyclic aromatic hydrocarbons in Japanese paddy soils from 1959 to 2002	Chemosphere	68(9)	1763-1771	2007
Iizumi T , Hayashi Y, Kimura F	Influence on rice production in Japan from cool and hot summers after global warming	Journal of agricultural meteorology	63(1)	11-23	2007
Iizumi T, Nishimori M, Yokozawa M	Combined equations for estimating global solar radiation: Projection of radiation field over Japan under global warming conditions by statistical downscaling	Journal of agricultural meteorology	64(1)	9-23	2008
Ikenaka Y, Ishizaka M, Eun H, Miyabara Y	Glucose-sulfate conjugates as a new phase II metabolite formed by aquatic crustaceans	Biochemical and Biophysical Research Communications	360(2)	490-495	2007
Inao K, Watanabe H, Karpouzas DG, Capri E	Simulation models of pesticide fate and transport in paddy environment for ecological risk assessment and management	JARQ-Japan Agricultural Research Quarterly	42(1)	13-21	2007
Inoue Y, Peñuelas J, Miyata A, Mano M	Normalized difference spectral indices for estimating photosynthetic efficiency and capacity at a canopy scale derived from hyperspectral and CO ₂ flux measurements in rice	Remote Sensing of Environment	112(1)	156-172	2008
InoueY, Douangsavanh L, Qi J, Olioso A, Kiyono Y, Horie T, Asai H, Saito K, Ochiai Y, Shiraiwa T	Traceability of slash-and-burn land-use history using optical satellite sensor imagery: a basis for chronosequential assessment of ecosystem carbon stock in Laos	International Journal of Remote Sensing	28(24)	5641-5647	2007
Ishigooka Y, Kuwagata T, Goto S, Toritani H, Ohno H, Urano S	Modeling of continental-scale crop water requirement and available water resources	Paddy and water environment	6(1)	55-71	2008

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Lee M,	leaved forest in central Japan				
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Tsushima S	control agent of red rot of sugarcane	1 1 6 6 1 1 1	50(5)	214 222	2007
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Katase T,	Estrogen equivalent concentration of 13	Chemosphere	70(11)	1961-1972	2008
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Kou T, Zhu J, Xie Z, Hasegawa T, Heiduk K	Effect of elevated atmospheric CO ₂ concentration on soil and root respiration in winter wheat by using a respiration partitioning chamber	Plant and Soil	299(1-2)	237-249	2007
Kuga Y, Saito K, Nayuki K, Peterson RL, Saito M	Ultrastructure of rapidly frozen and freeze-substituted germ tubes of an arbuscular mycorrhizal fungus and localization of polyphosphate	New Phytologist	178(1)	189-200	2008
Luo XY, Ikeda H	Effects of four rice herbicides on the growth of an aquatic fern, Marsilea quadrifolia L.	Weed Biology and Management	7(4)	237-241	2007
Ma J, Li KL, Xu H, Han Y, Cai ZC, Yagi K	Effects of nitrogen fertilizer and wheat straw application on CH ₄ and N ₂ O emission from a paddy rice field	Australian Journal of Soil Research	45(5)	359-367	2007
Makino T, Kamiya T, Takano H, Itou T, Sekiya N, Sasaki K, Maejima Y, Sugahara K	Remediation of cadmium-contaminated paddy soils by washing with calcium chloride: Verification of on-site washing	Environmental Pollution	147(1)	112-119	2007
Makino T, Takano H, Kamiya T, Itou T, Sekiya N, Inahara M, Sakurai Y	Restoration of cadmium-contaminated paddy soils by washing with ferric chloride: Cd extraction mechanism and bench-scale verification	Chemosphere	70(6)	1035-1043	2008
Masumoto T, Toritani H , Tada M, Shimizu A	Assessment of changes in water cycles on food production and alternative policy scenarios	Paddy and water environment	6(1)	5-14	2008
Matsuzaki H, Nakano C, Tsuchiya YS, Kato K, Maejima Y, Miyairi Y, Wakasa S, Aze T	Multi-unclide AMS performances at MALT	Nuclear Instruments and Methods in Physics Re- search Section B: Beam Interactions with Materials and Atoms	259(1)	36-40	2007

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Mimida N, Kitamoto H ,	Two alternatively spliced transcripts generated from <i>OsMUS81</i> , a rice homolog	Plant and Cell Physiology	48(4)	648-654	2007
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Nakashima M,	DNA-Damaging treatments				
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Nagai T,	Growth characteristics and growth model-	Limnology	8(3)	261-270	2007
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Matsushige K , Fukushima T	tothrix agardhii under iron limitation				
	Size related flavoring and feaundity in	Journal of Plant Dassarch	121(1)	22.42	2008
Naito Y, Kanzaki M,	Size-related flowering and fecundity in the tropical canopy tree species, <i>Shorea</i>	Journal of Plant Research	121(1)	33-42	2008
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Obayashi K,	consecutive general flowerings				
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Niwa S,	Effects of fine-scale simulation of deer	Soil Biology and Bio-	40(3)	699-708	2008
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Yasuda N,	nants of the rice blast fungus, <i>Pyricularia</i>	Research Quarterly	(-/		
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Noguchi MT,	Parasexual cycle provides genetic seg-	JARQ-Japan Agricultural	41(3)	207-210	2007
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Ohno T, Fernandez IJ, Hiradate S, Sherman JF	Effects of soil acidfication and forest type on water soluble soil organic matter properties	Geoderma	140(1-2)	176-187	2007
Ohtsuka T, Mo W, Satomura T, Inatomi M, Koizumi H	Biometric based carbon flux measurements and net ecosystem production (NEP) in a temperate deciduous broadleaved forest beneath a flux tower	Ecosystems	10(2)	324-334	2007
Okuda H, Noda K, Sawamoto T, Tsuruta H, Hirabayashi T, Yonemoto JY, Yagi K	Emission of N_2O and CO_2 and uptake of CH_4 in soil from a Satsuma mandarin orchard under mulching cultivation in Central Japan	Journal of the Japanese Society for Horticultural Science	76(4)	279-287	2007
Ono K, Miyata A, Yamada T	Apparent downward CO ₂ flux observed with open-path eddy covariance over a non-vegetated surface	Theoretical and Applied Climatology	92(3-4)	195-208	2007
Otani T, Seike N	Rootstock contorol of fruit dieldrin concentration in grafted cucumber (<i>Cucumis sativus</i>)	Journal of Pesticide Science	32(3)	235-242	2007
Saito A, Shinya T, Miyamoto K, Yokoyama T, Kaku H, Minami E, Shibuya N, Tsujibo H, Nagata Y, Ando A, Fujii T, Miyashita K	The dasABC Gene Cluster, Adjacent to dasR, Encodes a Novel ABC Transporter for the Uptake of N,N'-Diacetylchitobiose in Streptomyces coelicolor A3(2)	Applied and Environmental Microbiology	73(9)	3000-3008	2007
Saito M, Asanuma J, Miyata A	Dual-scale transport of sensible heat and water vapor over a short canopy under unstable conditions	Water Resources Research	43(5)	W05413	2007
Sakai Y, Ogata N, Fujii T, Sugahara K, Miyashita K, Hasebe A	2,4-Dichrolophenoxyacetic acid-degrading genes from bacteria isolated from soil in Japan: Spread of <i>Burkholderia cepacia</i> RASC-type degrading genes harbored on large plasmids	Microbes and Environments	22(2)	145-156	2007
Sakamoto T, Nguyen NV, Kotera A, Ohno H, Ishitsuka N, Yokozawa M	Detecting temporal changes in the extent of annual flooding within the Cambodia and the Vietnamese Mekong Delta from MODIS time-series imagery	Remote Sensing of Environment	109(3)	295-313	2007
Sakurai Y, Murayama S, Makino T, Maejima Y, Sugahara K	Chemical form of soluble cadmium and copper in arable soils and its implication to their mobility	JARQ-Japan Agricultural Research Quarterly	41(2)	139-145	2007

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Katagiri S, Tsuboi K Sawano S,	Modeling the dependence of the crop cal-	Paddy and water environ-	6(1)	83-90	2008
Hasegawa T, Goto S, Konghakote P, Polthanee A, Ishigooka Y, Kuwagata T, Toritani H	endar for rain-fed rice on precipitation in Northeast Thailand	ment			
Seike N, Kashiwagi N, Otani T	PCDD/F contamination over time in Japanese paddy soils	Environmental Science & technology	41(7)	2210-2215	2007
Sekiguchi H, Hasegawa H, Okada H , Kushida A, Takenaka S	Comparative analysis of environmental variability and fungal community structure in soils between organic and conventional commercial farms of cherry tomato in Japan	Microbes and Environments	23(1)	57-65	2008
Sekine T, Sugano M, Majid A, Fujii Y	Antifungal effects of volatile compounds from black Zira (<i>Bunium persicum</i>) and other spices and herbs	Journal of Chemical Ecology	33(11)	2123-2132	2007
Shibayama M, Kanda K, Sugahara K	Water turbidity estimation using a hand- held spectropolarimeter to determine sur- face reflection polarization in visible, near and short-wave infrared bands	International Journal of Remote Sensing	28(16)	3747-3755	2007
Shibayama M, Watanabe Y	Estimating the mean leaf inclination angle of wheat canopies using reflected polarized light	Plant Production Science	10(3)	329-342	2007
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Shimono H, Okada M, Yamakawa Y, Nakamura H, Kobayashi K, Hasegawa T	Rice yield enhancement by elevated CO ₂ is reduced in cool weather	Global Change Biology	14(2)	276-284	2007
Shimono Y, Konuma A	Effects of human-mediated processes on weed species composition in internationally traded grain commodities	Weed Research	48(1)	10-18	2008
Someya N, Tsuchiya K, Yoshida T, Noguchi MT, Akutsu K, Sawada H	Fungal cell wall degrading enzyme-pro- ducing bacterium enhances the biocontrol efficacy of antibiotic-producing bacteri- um against cabbage yellows	Journal of Plant Diseases and Protection	114(3)	108-112	2007

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4. Patents

1) System to Prevent Rice Agrochemical Outflow with Charcoal Made by Rice Husk

Patent number: 4014988

Date of application: September 26, 2002 Date of registration: September 21, 2007

Inventors: Kazuhiro Takagi and Seizaburo Takanashi

2) Case and Disperse Medium for Microorganism Preservation

Patent number: 3937019

Date of application: December 12, 2003 Date of registration: April 6, 2007

Inventors: Koji Nishiyama and Hirosuke Shinohara

5. Collaborative Research

Collaborative Research	Number 18	
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Other Independent Administrative Institution	6	
Prefectural Research Institution	5	