

# Keisuke Koba

## List of Publications by Citations

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115  
papers

4,206  
citations

38  
h-index

60  
g-index

117  
ext. papers

4,917  
ext. citations

4.8  
avg, IF

5.15  
L-index

#	Paper	IF	Citations
115	Ecological interpretations of nitrogen isotope ratios of terrestrial plants and soils. <i>Plant and Soil</i> , <b>2015</b> , 396, 1-26	4.2	291
114	Hadal biosphere: insight into the microbial ecosystem in the deepest ocean on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1230-6	11.5	174
113	Natural <sup>13</sup> C and <sup>15</sup> N abundance of field-collected fungi and their ecological implications. <i>New Phytologist</i> , <b>1999</b> , 144, 323-330	9.8	174
112	Nitrogen deposition and forest nitrogen cycling along an urban-rural transect in southern China. <i>Global Change Biology</i> , <b>2011</b> , 17, 872-885	11.4	150
111	Microbial denitrification dominates nitrate losses from forest ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 1470-4	11.5	137
110	Intermittent denitrification: The application of a <sup>15</sup> N natural abundance method to a forested ecosystem. <i>Geochimica Et Cosmochimica Acta</i> , <b>1997</b> , 61, 5043-5050	5.5	119
109	Higher diversity and abundance of denitrifying microorganisms in environments than considered previously. <i>ISME Journal</i> , <b>2015</b> , 9, 1954-65	11.9	112
108	Characterization and production and consumption processes of N <sub>2</sub> O emitted from temperate agricultural soils determined via isotopomer ratio analysis. <i>Global Biogeochemical Cycles</i> , <b>2011</b> , 25, n/a-n/a	5.9	105
107	Anthropogenic imprints on nitrogen and oxygen isotopic composition of precipitation nitrate in a nitrogen-polluted city in southern China. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 1313-1325	6.8	97
106	Role of nitrification and denitrification on the nitrous oxide cycle in the eastern tropical North Pacific and Gulf of California. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		93
105	Convergence of soil nitrogen isotopes across global climate gradients. <i>Scientific Reports</i> , <b>2015</b> , 5, 8280	4.9	90
104	Isotopocule analysis of biologically produced nitrous oxide in various environments. <i>Mass Spectrometry Reviews</i> , <b>2017</b> , 36, 135-160	11	89
103	Biogeochemistry of nitrous oxide in groundwater in a forested ecosystem elucidated by nitrous oxide isotopomer measurements. <i>Geochimica Et Cosmochimica Acta</i> , <b>2009</b> , 73, 3115-3133	5.5	80
102	High abundance of ammonia-oxidizing archaea in acidified subtropical forest soils in southern China after long-term N deposition. <i>FEMS Microbiology Ecology</i> , <b>2012</b> , 80, 193-203	4.3	75
101	Atmospheric deposition and leaching of nitrogen in Chinese forest ecosystems. <i>Journal of Forest Research</i> , <b>2011</b> , 16, 341-350	1.4	72
100	Natural Abundance of Nitrogen-15 in a Forest Soil. <i>Soil Science Society of America Journal</i> , <b>1998</b> , 62, 778-781	11.1	72
99	Natural <sup>15</sup> N Abundance of Plants and Soil N in a Temperate Coniferous Forest. <i>Ecosystems</i> , <b>2003</b> , 6, 457-469	3.69	67

98	Nitrate is an important nitrogen source for Arctic tundra plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 3398-3403	11.5	66
97	Stable isotope analyses of precipitation nitrogen sources in Guiyang, southwestern China. <i>Environmental Pollution</i> , <b>2017</b> , 230, 486-494	9.3	64
96	Nitrogen Fixation in Surface Soils and Vegetation in an Arctic Tundra Watershed: A Key Source of Atmospheric Nitrogen. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2006</b> , 38, 363-372	1.8	61
95	WATER UTILIZATION OF NATURAL AND PLANTED TREES IN THE SEMIARID DESERT OF INNER MONGOLIA, CHINA <b>2003</b> , 13, 337-351		57
94	The natural abundance of <sup>15</sup> N in plant and soil-available N indicates a shift of main plant N resources to NO <sub>3</sub> (-) from NH <sub>4</sub> (+) along the N leaching gradient. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 1001-8	2.2	56
93	Nitrogen and phosphorus enrichment and balance in forests colonized by cormorants: Implications of the influence of soil adsorption. <i>Plant and Soil</i> , <b>2005</b> , 268, 89-101	4.2	52
92	Nitrogen Isotope Study on Nitrate-Contaminated Groundwater in the Sichuan Basin, China. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 178, 145-156	2.6	51
91	Hybrid Nitrous Oxide Production from a Partial Nitrifying Bioreactor: Hydroxylamine Interactions with Nitrite. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2748-2756	10.3	48
90	Molecular biological and isotopic biogeochemical prognoses of the nitrification-driven dynamic microbial nitrogen cycle in hadopelagic sediments. <i>Environmental Microbiology</i> , <b>2013</b> , 15, 3087-107	5.2	48
89	Ammonium first: natural mosses prefer atmospheric ammonium but vary utilization of dissolved organic nitrogen depending on habitat and nitrogen deposition. <i>New Phytologist</i> , <b>2013</b> , 199, 407-419	9.8	47
88	Episodic increases in nitrate concentrations in streamwater due to the partial dieback of a pine forest in Japan: runoff generation processes control seasonality. <i>Hydrological Processes</i> , <b>2003</b> , 17, 237-249	2.3	47
87	Physiological characteristics of predominant ammonia-oxidizing bacteria enriched from bioreactors with different influent supply regimes. <i>Biochemical Engineering Journal</i> , <b>2013</b> , 79, 153-161	4.2	46
86	Nitrification and nitrifying microbial communities in forest soils. <i>Journal of Forest Research</i> , <b>2011</b> , 16, 351-362	1.4	45
85	Spatial distribution of nitrate sources of rivers in the Lake Biwa watershed, Japan: Controlling factors revealed by nitrogen and oxygen isotope values. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	45
84	Carbon autonomy of reproductive shoots of Siberian alder ( <i>Alnus hirsuta</i> var. <i>sibirica</i> ). <i>Journal of Plant Research</i> , <b>2003</b> , 116, 183-8	2.6	45
83	Nitrogen isotope fractionation during nitrogen transport from ectomycorrhizal fungi, <i>Suillus granulatus</i> , to the host plant, <i>Pinus densiflora</i> . <i>Soil Science and Plant Nutrition</i> , <b>2000</b> , 46, 733-739	1.6	45
82	Isotopomeric analysis of N <sub>2</sub> O dissolved in a river in the Tokyo metropolitan area. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 809-21	2.2	44
81	Low δ <sup>18</sup> O values of nitrate produced from nitrification in temperate forest soils. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 8723-30	10.3	41

80	Analytical techniques for quantifying (15)N/(14)N of nitrate, nitrite, total dissolved nitrogen and ammonium in environmental samples using a gas chromatograph equipped with a quadrupole mass spectrometer. <i>Microbes and Environments</i> , <b>2011</b> , 26, 46-53	2.6	41
79	Mechanism of nitrate loss from a forested catchment following a small-scale, natural disturbance. <i>Canadian Journal of Forest Research</i> , <b>2001</b> , 31, 1326-1335	1.9	41
78	Immobilization of avian excreta-derived nutrients and reduced lignin decomposition in needle and twig litter in a temperate coniferous forest. <i>Soil Biology and Biochemistry</i> , <b>2006</b> , 38, 517-525	7.5	40
77	Gross nitrification rates in four Japanese forest soils: heterotrophic versus autotrophic and the regulation factors for the nitrification. <i>Journal of Forest Research</i> , <b>2011</b> , 16, 363-373	1.4	38
76	Microbial methane production in deep aquifer associated with the accretionary prism in Japan. <i>ISME Journal</i> , <b>2010</b> , 4, 531-41	11.9	38
75	Drivers of atmospheric nitrate processing and export in forested catchments. <i>Water Resources Research</i> , <b>2015</b> , 51, 1333-1352	5.4	37
74	Hydrological influences on spatiotemporal variations of $\delta^{15}N$ and $\delta^{18}O$ of nitrate in a forested headwater catchment in central Japan: Denitrification plays a critical role in groundwater. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		35
73	Methane flux characteristics in forest soils under an East Asian monsoon climate. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 388-395	7.5	34
72	The $^{15}N$ natural abundance of the N lost from an N-saturated subtropical forest in southern China. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		33
71	Abundance, diversity, and species composition of fungal communities in a temperate forest affected by excreta of the Great Cormorant <i>Phalacrocorax carbo</i> . <i>Soil Biology and Biochemistry</i> , <b>2002</b> , 34, 1537-1547	7.5	33
70	Physiological and isotopic characteristics of nitrogen fixation by hyperthermophilic methanogens: Key insights into nitrogen anabolism of the microbial communities in Archean hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 138, 117-135	5.5	32
69	$\Delta^{15}N$ of soil N and plants in a N-saturated, subtropical forest of southern China. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 2499-506	2.2	32
68	A simple and rapid GC/MS method for the simultaneous determination of gaseous metabolites. <i>Journal of Microbiological Methods</i> , <b>2011</b> , 84, 46-51	2.8	30
67	Pattern of natural $^{15}N$ abundance in lakeside forest ecosystem affected by cormorant-derived nitrogen. <i>Hydrobiologia</i> , <b>2006</b> , 567, 69-86	2.4	30
66	Isotopomer analysis of production, consumption and soil-to-atmosphere emission processes of $N_2O$ at the beginning of paddy field irrigation. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 70, 66-78	7.5	29
65	Isotopomeric characterization of nitrous oxide produced by reaction of enzymes extracted from nitrifying and denitrifying bacteria. <i>Biogeosciences</i> , <b>2014</b> , 11, 2679-2689	4.6	29
64	Changes in nitrogen transformation in forest soil representing the climate gradient of the Japanese archipelago. <i>Journal of Forest Research</i> , <b>2011</b> , 16, 374-385	1.4	28
63	Reduction of fungal growth and lignin decomposition in needle litter by avian excreta. <i>Soil Biology and Biochemistry</i> , <b>2006</b> , 38, 1623-1630	7.5	28

62	Consequences of microbial diversity in forest nitrogen cycling: diverse ammonifiers and specialized ammonia oxidizers. <i>ISME Journal</i> , <b>2020</b> , 14, 12-25	11.9	28
61	Strong inhibitory effect of nitrate on atmospheric methane oxidation in forest soils. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 50, 164-166	7.5	26
60	Variations in nitrogen-15 natural abundance of plant and soil systems in four remote tropical rainforests, southern China. <i>Oecologia</i> , <b>2014</b> , 174, 567-80	2.9	26
59	Nitrate dynamics in natural plants: insights based on the concentration and natural isotope abundances of tissue nitrate. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 355	6.2	24
58	Forest Floor Quality and N Transformations in a Temperate Forest Affected by Avian-Derived N Deposition. <i>Water, Air, and Soil Pollution</i> , <b>2001</b> , 130, 679-684	2.6	24
57	Nitrite transformations in an N-saturated forest soil. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 52, 61-63	7.5	22
56	Pitfalls and new mechanisms in moss isotope biomonitoring of atmospheric nitrogen deposition. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 12557-66	10.3	22
55	Hydrologic controls on nitrous oxide production and consumption in a forested headwater catchment in central Japan. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		22
54	Seasonal change in microbial sulfur cycling in monomictic Lake Fukami-ike, Japan. <i>Limnology and Oceanography</i> , <b>2012</b> , 57, 974-988	4.8	21
53	Dynamics of the internal soil nitrogen cycles under moder and mull forest floor types on a slope in a <i>Cryptomeria japonica</i> D. Don plantation. <i>Ecological Research</i> , <b>2003</b> , 18, 53-64	1.9	21
52	Differential N <sub>2</sub> O dynamics in two oxygen-deficient lake basins revealed by stable isotope and isotopomer distributions. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1735-1749	4.8	20
51	Biogeochemistry of nitrous oxide in Lake Kizaki, Japan, elucidated by nitrous oxide isotopomer analysis. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		20
50	Topographical Differences in Soil N Transformation Using 15N Dilution Method along a Slope in a Conifer Plantation Forest in Japan. <i>Journal of Forest Research</i> , <b>2000</b> , 5, 13-19	1.4	20
49	Highly abundant acidophilic ammonia-oxidizing archaea causes high rates of nitrification and nitrate leaching in nitrogen-saturated forest soils. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 122, 220-227	7.5	19
48	High nitrogen isotope fractionation of nitrate during denitrification in four forest soils and its implications for denitrification rate estimates. <i>Science of the Total Environment</i> , <b>2018</b> , 633, 1078-1088	10.2	19
47	Nitrogen and Oxygen Isotope Effects of Ammonia Oxidation by Thermophilic Thaumarchaeota from a Geothermal Water Stream. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 4492-504	4.8	19
46	A novel pyrroloquinoline quinone-dependent 2-keto-D-glucose dehydrogenase from <i>Pseudomonas aureofaciens</i> . <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 1322-9	3.5	18
45	Hydrologic effects on methane dynamics in riparian wetlands in a temperate forest catchment. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		17

44	Preliminary insights into $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ of nitrate in natural mosses: a new application of the denitrifier method. <i>Environmental Pollution</i> , <b>2012</b> , 162, 48-55	9.3	16
43	Contribution of atmospheric nitrate to stream-water nitrate in Japanese coniferous forests revealed by the oxygen isotope ratio of nitrate. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 1281-6	2.2	16
42	Uptake Patterns of Glycine, Ammonium, and Nitrate Differ Among Four Common Tree Species of Northeast China. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 799	6.2	15
41	Nitrification-driven forms of nitrogen metabolism in microbial mat communities thriving along an ammonium-enriched subsurface geothermal stream. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 113, 152-173	5.5	15
40	Biomass production and energy source of thermophiles in a Japanese alkaline geothermal pool. <i>Environmental Microbiology</i> , <b>2010</b> , 12, 480-9	5.2	14
39	Patterns of foliar $\delta^{15}\text{N}$ and their control in Eastern Asian forests. <i>Ecological Research</i> , <b>2013</b> , 28, 735-748	1.9	13
38	Analysis of methane production pathways in a riparian wetland of a temperate forest catchment, using $\delta^{13}\text{C}$ of pore water $\text{CH}_4$ and $\text{CO}_2$ . <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		13
37	Possible Mechanisms Leading to a Delay in Carbon Stock Recovery after Land Use Change. <i>Soil Science Society of America Journal</i> , <b>2007</b> , 71, 1636-1638	2.5	12
36	$\text{N}_2\text{O}$ production by denitrification in an urban river: evidence from isotopes, functional genes, and dissolved organic matter. <i>Limnology</i> , <b>2018</b> , 19, 115-126	1.7	12
35	Multiyear Measurements on $\text{D}$ of Stream Nitrate Indicate High Nitrate Production in a Temperate Forest. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 4231-4239	10.3	11
34	Relationships Among pH, Minerals, and Carbon in Soils from Tundra to Boreal Forest Across Alaska. <i>Ecosystems</i> , <b>2016</b> , 19, 1092-1103	3.9	11
33	Hydrogen and carbon isotope fractionation by thermophilic hydrogenotrophic methanogens from a deep aquifer under coculture with fermenters. <i>Geochemical Journal</i> , <b>2012</b> , 46, 193-200	0.9	11
32	Temporal and spatial variability of Methane flux in a temperate forest watershed. <i>Suimon Mizu Shigen Gakkaishi</i> , <b>2005</b> , 18, 244-256	0.2	11
31	Dual N and O isotopes of nitrate in natural plants: first insights into individual variability and organ-specific patterns. <i>Biogeochemistry</i> , <b>2013</b> , 114, 399-411	3.8	10
30	Nitrogen and oxygen isotope effects of tissue nitrate associated with nitrate acquisition and utilisation in the moss <i>Hypnum plumaeforme</i> . <i>Functional Plant Biology</i> , <b>2012</b> , 39, 598-608	2.7	10
29	Variation in leaf and soil $\delta^{15}\text{N}$ in diverse tree species in a lowland dipterocarp rainforest, Malaysia. <i>Trees - Structure and Function</i> , <b>2016</b> , 30, 509-522	2.6	9
28	Heterogeneous Atmospheric Nitrogen Deposition Effects Upon the Nitrate Concentration of Stream Waters in a Forested Mountain Area. <i>Water, Air, and Soil Pollution</i> , <b>2011</b> , 216, 105-115	2.6	9
27	Use of foliar $^{15}\text{N}$ and $^{13}\text{C}$ abundance to evaluate effects of microbiotic crust on nitrogen and water utilization in <i>Pinus massoniana</i> in deteriorated pine stands of south China. <i>Ecological Research</i> , <b>2003</b> , 18, 279-286	1.9	8

26	An internal recycling mechanism between ammonia/ammonium and nitrate driven by ammonia-oxidizing archaea and bacteria (AOA, AOB, and Comammox) and DNRA on Angkor sandstone monuments. <i>International Biodeterioration and Biodegradation</i> , <b>2021</b> , 165, 105328	4.8	8
25	Seasonal changes and controlling factors of gross N transformation in an evergreen plantation forest in central Japan. <i>Journal of Forest Research</i> , <b>2014</b> , 19, 77-85	1.4	7
24	Mature conifers assimilate nitrate as efficiently as ammonium from soils in four forest plantations. <i>New Phytologist</i> , <b>2021</b> , 229, 3184-3194	9.8	7
23	Nitrogen source utilization in co-existing canopy tree and dwarf bamboo in a northern hardwood forest in Japan. <i>Trees - Structure and Function</i> , <b>2020</b> , 34, 1047-1057	2.6	6
22	Development and evaluation of a support system for forest education. <i>Journal of Forest Research</i> , <b>2005</b> , 10, 43-50	1.4	6
21	Virtual forest: design and evaluation of a walk-through system for forest education. <i>Journal of Forest Research</i> , <b>2005</b> , 10, 189-197	1.4	6
20	Geochemical Influences on Solubility of Soil Organic Carbon in Arctic Tundra Ecosystems. <i>Soil Science Society of America Journal</i> , <b>2013</b> , 77, 473-481	2.5	5
19	Vertical distributions of stable isotopic compositions and bacteriochlorophyll homologues in suspended particulate matter in saline meromictic Lake Abashiri. <i>Limnology</i> , <b>2004</b> , 5, 185-189	1.7	5
18	Retention of deposited ammonium and nitrate and its impact on the global forest carbon sink.. <i>Nature Communications</i> , <b>2022</b> , 13, 880	17.4	5
17	Nitrate-use traits of understory plants as potential regulators of vegetation distribution on a slope in a Japanese cedar plantation. <i>Plant and Soil</i> , <b>2013</b> , 362, 119-134	4.2	4
16	Abundances of <sup>13</sup> C and <sup>15</sup> N in Natural Ecosystems.. <i>Radioisotopes</i> , <b>1997</b> , 46, 632-644	0.1	4
15	Control of the Nitrogen Isotope Composition of the Fungal Biomass: Evidence of Microbial Nitrogen Use Efficiency. <i>Microbes and Environments</i> , <b>2019</b> , 34, 5-12	2.6	4
14	The potential of NO <sub>3</sub> -N utilization by a woody shrub species <i>Lindera triloba</i> : a cultivation test to estimate the saturation point of soil NO <sub>3</sub> -N for plants. <i>Scientific World Journal, The</i> , <b>2001</b> , 1 Suppl 2, 514-9	2.2	3
13	Influence of [D] of water on measurements of [D] of nitrite and nitrate. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e8979	2.2	3
12	A Non-steady State Model Based on Dual Nitrogen and Oxygen Isotopes to Constrain Moss Nitrate Uptake and Reduction. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2019JG005498	3.7	2
11	Studies on Nitrogen Dynamics in Lotic Ecosystems Using Stable Isotope Techniques. <i>Suimon Mizu Shigen Gakkaishi</i> , <b>2006</b> , 19, 293-301	0.2	2
10	Nitrogen and Oxygen Isotope Signatures of Nitrogen Compounds during Anammox in the Laboratory and a Wastewater Treatment Plant. <i>Microbes and Environments</i> , <b>2020</b> , 35,	2.6	2
9	Arbuscular Mycorrhizal Community in Roots and Nitrogen Uptake Patterns of Understory Trees Beneath Ectomycorrhizal and Non-ectomycorrhizal Overstory Trees. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 583585	6.2	2

8	Changes in stable nitrogen isotopes of plants, bulk soil and soil dissolved N during ecosystem retrogression in boreal forest. <i>Ecological Research</i> , <b>2021</b> , 36, 420-429	1.9	2
7	Revisiting the involvement of ammonia oxidizers and denitrifiers in nitrous oxide emission from cropland soils. <i>Environmental Pollution</i> , <b>2021</b> , 287, 117494	9.3	2
6	Different leaf carbon, nitrogen, and phosphorus stoichiometry and carbon and nitrogen isotopes among peatland plants in northeastern China. <i>Plant and Soil</i> , <b>2021</b> , 467, 345	4.2	1
5	Pattern of natural <sup>15</sup> N abundance in lakeside forest ecosystem affected by cormorant-derived nitrogen <b>2006</b> , 69-86		1
4	Intraspecific differences in the invasion success of the Argentine ant <i>Linepithema humile</i> Mayr are associated with diet breadth. <i>Scientific Reports</i> , <b>2021</b> , 11, 2874	4.9	0
3	Isotopic Elucidation of Microbial Nitrogen Transformations in Forest Soils. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35,	5.9	0
2	Soil nitrogen dynamics of forest ecosystems under environmental changes. <i>Journal of Forest Research</i> , <b>2011</b> , 16, 331-332	1.4	
1	The Use of Natural Abundance of Nitrogen Isotopes in the Studies on Nitrogen Cycle in Forest Ecosystem.. <i>Radioisotopes</i> , <b>1995</b> , 44, 765-766	0.1	