Thomas Rosswall

List of Publications by Year
in descending order

36 papers	3,362 citations	236912 25 h-index	414395 32 g-index
37 all docs	37 docs citations	37 times ranked	2611 citing authors

#	Article	IF	Citations
1	Fluorescein Diacetate Hydrolysis as a Measure of Total Microbial Activity in Soil and Litter. Applied and Environmental Microbiology, 1982, 43, 1256-1261.	3.1	1,007
2	Microbial biomass and activity in an agricultural soil with different organic matter contents. Soil Biology and Biochemistry, 1985, 17, 611-618.	8.8	355
3	In situ Methane Production from Acid Peat in Plant Communities with Different Moisture Regimes in a Subarctic Mire. Oikos, 1984, 43, 341.	2.7	183
4	Seasonal Variation of Potentially Mineralizable Nitrogen in Four Cropping Systems. Soil Science Society of America Journal, 1987, 51, 1508-1514.	2.2	170
5	Inhibitory effect of low partial pressures of acetylene on nitrification. Soil Biology and Biochemistry, 1982, 14, 301-303.	8.8	167
6	Seasonal variation of soil microbial biomassâ€"The effects of clearfelling a tropical rainforest and establishment of pasture in the central Amazon. Soil Biology and Biochemistry, 1992, 24, 805-813.	8.8	166
7	Biomass and turnover of bacteria in a forest soil and a peat. Soil Biology and Biochemistry, 1980, 12, 49-57.	8.8	137
8	Effects of moisture on soil microorganisms and nematodes: A field experiment. Microbial Ecology, 1986, 12, 217-230.	2.8	121
9	The Effect of Nitrogen and Carbon Supply on the Development of Soil Organism Populations and Pine Seedlings: A Microcosm Experiment. Oikos, 1978, 31, 153.	2.7	93
10	Impact of Microbial-Feeding Animals on Total Soil Activity and Nitrogen Dynamics: A Soil Microcosm Experiment. Oikos, 1981, 37, 257.	2.7	93
11	Nitrogen in West Africa: The Regional Cycle. Ecological Monographs, 1986, 56, 43-72.	5.4	88
12	Dinitrogen and nitrous oxide produced by denitrification and nitrification in soil with and without barley plants. Plant and Soil, 1987, 99, 303-319.	3.7	76
13	Cycling of nitrogen in modern agricultural systems. Plant and Soil, 1984, 76, 3-21.	3.7	73
14	Building Resilience and Adaptation to Manage Arctic Change. Ambio, 2006, 35, 198-202.	5.5	70
15	Microbial nitrogen transformations in the root environment of barley. Soil Biology and Biochemistry, 1987, 19, 551-558.	8.8	62
16	Biological Aspects of Nitrogen Mineralization in Humus from a Pine Forest Podsol Incubated under Different Moisture and Temperature Conditions. Oikos, 1981, 37, 137.	2.7	59
17	Microbial biomass in relation to C and N mineralization during laboratory incubations. Soil Biology and Biochemistry, 1988, 20, 281-286.	8.8	54
18	Effects of metals on the microbial mineralization of organic acids. Water, Air, and Soil Pollution, 1997, 94, 45-57.	2.4	43

#	Article	IF	Citations
19	Seasonal variations in abundance and activity of nitrifiers in four arable cropping systems. Microbial Ecology, 1987, 13, 75-87.	2.8	42
20	Nitrogen mineralization ofSesbania sesban used as green manure for lowland rice in Sri Lanka. Plant and Soil, 1988, 108, 201-209.	3.7	40
21	Soil denitrification in three cropping systems characterized by differences in nitrogen and carbon supply. Plant and Soil, 1991, 138, 257-271.	3.7	38
22	Effects of Glucose Concentrations on Cadmium, Copper, Mercury, and Zinc Toxicity to a Klebsiella sp. Applied and Environmental Microbiology, 1988, 54, 1689-1693.	3.1	38
23	Soil denitrification in three cropping systems characterized by differences in nitrogen and carbon supply. Plant and Soil, 1991, 138, 273-286.	3.7	37
24	A European science plan to sustainably increase food security under climate change. Global Change Biology, 2012, 18, 3269-3271.	9.5	35
25	Greenhouse gases and global change: international collaboration. Environmental Science & Technology, 1991, 25, 567-573.	10.0	34
26	Mineralization of nitrogen from15N labelled fungi, soil microbial biomass and roots and its uptake by barley plants. Plant and Soil, 1987, 102, 71-78.	3.7	26
27	Cycling of nitrogen in modern agricultural systems. , 1984, , 3-21.		17
28	The International Geosphere-Biosphere Programme: A Study of Global Change (IGBP). Environmental Geology and Water Sciences, 1992, 20, 77-78.	0.4	14
29	Estimates of denitrification in soil by remote sensing of thermal infrared emission at different moisture levels. Biology and Fertility of Soils, 1993, 16, 193-197.	4.3	12
30	Sustainment of soil fertility in the traditional rice farming, dry zone, Sri Lanka. Soil Biology and Biochemistry, 1994, 26, 681-688.	8.8	5
31	N2 fixation in two Sesbania species and its transfer to rice (Oryza sativa L.) as revealed by 15N technology. Biology and Fertility of Soils, 1992, 14, 37-42.	4.3	4
32	Theory to predict potentially mineralizable nitrogen in soils. Soil Biology and Biochemistry, 1994, 26, 1491-1493.	8.8	2
33	EFFECTS OF METALS ON THE MICROBIAL MINERALIZATION OF ORGANIC ACIDS. Water, Air, and Soil Pollution, 1997, 94, 45-57.	2.4	1
34	Soil Colloidal Particles as Carriers of Inhibitory Agents against the Cyanobacterium Anabaena in an Indian Soil. Oikos, 1984, 43, 235.	2.7	0
35	Scientific freedom: new strategies are needed. Nature, 2003, 421, 785-785.	27.8	0
36	Interaction and Integrationâ€"The Role of Microbiology in Ecological Research. , 1984, , 19-34.		0