

# Gran I gren

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79  
papers

8,438  
citations

42  
h-index

84  
g-index

84  
ext. papers

9,391  
ext. citations

5.8  
avg, IF

6.11  
L-index

#	Paper	IF	Citations
79	Investigating soil carbon diversity by combining the MAXimum ENTropy principle with the Q model. <i>Biogeochemistry</i> , <b>2021</b> , 153, 85-94	3.8	0
78	Multi-Dimensional Plant Element Stoichiometry-Looking Beyond Carbon, Nitrogen, and Phosphorus. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 23	6.2	12
77	Ectomycorrhiza, Friend or Foe?. <i>Ecosystems</i> , <b>2019</b> , 22, 1561-1572	3.9	7
76	Generic parameters of first-order kinetics accurately describe soil organic matter decay in bare fallow soils over a wide edaphic and climatic range. <i>Scientific Reports</i> , <b>2019</b> , 9, 20319	4.9	11
75	Modelling Dissolved Organic Carbon Production in Coniferous Forest Soils. <i>Soil Science Society of America Journal</i> , <b>2018</b> , 82, 1392-1403	2.5	2
74	Nitrogen productivity and allocation responses of 12 important tree species to increased CO <sub>2</sub> . <i>Trees - Structure and Function</i> , <b>2017</b> , 31, 617-621	2.6	3
73	Carbon balances of bioenergy systems using biomass from forests managed with long rotations: bridging the gap between stand and landscape assessments. <i>GCB Bioenergy</i> , <b>2017</b> , 9, 1238-1251	5.6	18
72	Modelling the influence of ectomycorrhizal decomposition on plant nutrition and soil carbon sequestration in boreal forest ecosystems. <i>New Phytologist</i> , <b>2017</b> , 213, 1452-1465	9.8	53
71	Production and turnover of ectomycorrhizal extramatrical mycelial biomass and necromass under elevated CO <sub>2</sub> and nitrogen fertilization. <i>New Phytologist</i> , <b>2016</b> , 211, 874-85	9.8	50
70	The climate effect of increased forest bioenergy use in Sweden: evaluation at different spatial and temporal scales. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , <b>2016</b> , 5, 351-369	4.7	30
69	Temperature sensitivity of soil respiration rates enhanced by microbial community response. <i>Nature</i> , <b>2014</b> , 513, 81-4	50.4	368
68	Soil organic carbon stock changes in Swedish forest soils: A comparison of uncertainties and their sources through a national inventory and two simulation models. <i>Ecological Modelling</i> , <b>2013</b> , 251, 221-231	3.1	42
67	Forest carbon balances at the landscape scale investigated with the Q model and the CoupModel □ Responses to intensified harvests. <i>Forest Ecology and Management</i> , <b>2013</b> , 290, 67-78	3.9	35
66	When will litter mixtures decompose faster or slower than individual litters? A model for two litters. <i>Oikos</i> , <b>2012</b> , 121, 1112-1120	4	35
65	Plant stoichiometry at different scales: element concentration patterns reflect environment more than genotype. <i>New Phytologist</i> , <b>2012</b> , 194, 944-952	9.8	108
64	Nutrient limitation on terrestrial plant growth--modeling the interaction between nitrogen and phosphorus. <i>New Phytologist</i> , <b>2012</b> , 194, 953-960	9.8	213
63	Environmental and stoichiometric controls on microbial carbon-use efficiency in soils. <i>New Phytologist</i> , <b>2012</b> , 196, 79-91	9.8	728

62	Dynamics of soil C, N and Ca in four Swedish forests after removal of tops, branches and stumps as predicted by the Q model. <i>Scandinavian Journal of Forest Research</i> , <b>2012</b> , 27, 774-786	1.7	18
61	Temperature and soil organic matter decomposition rates [Synthesis of current knowledge and a way forward. <i>Global Change Biology</i> , <b>2011</b> , 17, 3392-3404	11.4	883
60	Knowledge gaps in soil carbon and nitrogen interactions [From molecular to global scale. <i>Soil Biology and Biochemistry</i> , <b>2011</b> , 43, 702-717	7.5	167
59	Feedback from soil inorganic nitrogen on soil organic matter mineralisation and growth in a boreal forest ecosystem. <i>Plant and Soil</i> , <b>2011</b> , 338, 193-203	4.2	13
58	Effects of variations in simulated changes in soil carbon contents and dynamics on future climate projections. <i>Global Change Biology</i> , <b>2010</b> , 16, 823-835	11.4	31
57	Relationships Between Tree and Soil Properties in <i>Picea abies</i> and <i>Pinus sylvestris</i> Forests in Sweden. <i>Ecosystems</i> , <b>2010</b> , 13, 302-316	3.9	40
56	Temperature sensitivity and substrate quality in soil organic matter decomposition: results of an incubation study with three substrates. <i>Global Change Biology</i> , <b>2009</b> , 16, 1806-1819	11.4	98
55	Stoichiometry and Nutrition of Plant Growth in Natural Communities. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2008</b> , 39, 153-170	13.5	348
54	Impact of long-term nitrogen addition on carbon stocks in trees and soils in northern Europe. <i>Biogeochemistry</i> , <b>2008</b> , 89, 121-137	3.8	229
53	Pools and fluxes of carbon in three Norway spruce ecosystems along a climatic gradient in Sweden. <i>Biogeochemistry</i> , <b>2008</b> , 89, 7-25	3.8	82
52	Are Swedish forest soils sinks or sources for CO <sub>2</sub> ? Model analyses based on forest inventory data. <i>Biogeochemistry</i> , <b>2008</b> , 89, 139-149	3.8	22
51	Root respiration data and minirhizotron observations conflict with root turnover estimates from sequential soil coring. <i>Scandinavian Journal of Forest Research</i> , <b>2007</b> , 22, 299-303	1.7	12
50	Simulated mechanisms of soil N feedback on the forest CO <sub>2</sub> response. <i>Global Change Biology</i> , <b>2007</b> , 13, 1265-1281	11.4	16
49	The likely impact of elevated [CO <sub>2</sub> ], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems: a literature review. <i>New Phytologist</i> , <b>2007</b> , 173, 463-480	9.8	498
48	Are Swedish forest soils sinks or sources for CO <sub>2</sub> ? Model analyses based on forest inventory data. <i>Biogeochemistry</i> , <b>2007</b> , 82, 217-227	3.8	50
47	Farmers' local knowledge and topsoil properties of agroforestry practices in Sidama, Southern Ethiopia. <i>Agroforestry Systems</i> , <b>2007</b> , 71, 35-48	2	29
46	Response to comments on Root respiration data and minirhizotron observations conflict with root turnover estimates from sequential soil coring [Scandinavian Journal of Forest Research, <b>2007</b> , 22, 473-474	1.7	1
45	The response of heterotrophic CO <sub>2</sub> flux to soil warming. <i>Global Change Biology</i> , <b>2005</b> , 11, 167-181	11.4	261

44	Analysing temperature response of decomposition of organic matter. <i>Global Change Biology</i> , <b>2005</b> , 11, 770-778	11.4	36
43	Modeling Response of N Addition on C and N Allocation in Scandinavian Norway Spruce Stands. <i>Ecosystems</i> , <b>2005</b> , 8, 373-381	3.9	8
42	Measuring Fine Root Turnover in Forest Ecosystems. <i>Plant and Soil</i> , <b>2005</b> , 276, 1-8	4.2	179
41	TERRESTRIAL C SEQUESTRATION AT ELEVATED CO <sub>2</sub> AND TEMPERATURE: THE ROLE OF DISSOLVED ORGANIC N LOSS <b>2005</b> , 15, 71-86		32
40	The C : N : P stoichiometry of autotrophs II theory and observations. <i>Ecology Letters</i> , <b>2004</b> , 7, 185-191	10	303
39	Temperature sensitivity of nitrogen productivity for Scots pine and Norway spruce. <i>Trees - Structure and Function</i> , <b>2004</b> , 18, 312-319	2.6	11
38	CARBON SEQUESTRATION IN ECOSYSTEMS: THE ROLE OF STOICHIOMETRY. <i>Ecology</i> , <b>2004</b> , 85, 1179-1192	4.6	373
37	Pine Forest Floor Carbon Accumulation in Response to N and PK Additions: Bomb 14C Modelling and Respiration Studies. <i>Ecosystems</i> , <b>2003</b> , 6, 644-658	3.9	91
36	Exact solutions to the continuous-quality equation for soil organic matter turnover. <i>Journal of Theoretical Biology</i> , <b>2003</b> , 224, 97-105	2.3	48
35	Root : shoot ratios, optimization and nitrogen productivity. <i>Annals of Botany</i> , <b>2003</b> , 92, 795-800	4.1	167
34	Modelling carbon dynamics in coniferous forest soils in a temperature gradient. <i>Plant and Soil</i> , <b>2002</b> , 242, 33-39	4.2	12
33	Reconciling differences in predictions of temperature response of soil organic matter. <i>Soil Biology and Biochemistry</i> , <b>2002</b> , 34, 129-132	7.5	90
32	Combining theory and experiment to understand effects of inorganic nitrogen on litter decomposition. <i>Oecologia</i> , <b>2001</b> , 128, 94-98	2.9	208
31	Combining theory and experiment to understand effects of inorganic nitrogen on litter decomposition. <i>Oecologia</i> , <b>2001</b> , 128, 464	2.9	39
30	Organic matter quality in ecological studies: theory meets experiment. <i>Oikos</i> , <b>2001</b> , 93, 451-458	4	61
29	Decomposer invasion rate, decomposer growth rate, and substrate chemical quality: how they influence soil organic matter turnover. <i>Canadian Journal of Forest Research</i> , <b>2001</b> , 31, 1594-1601	1.9	47
28	Effects of Plant Growth Characteristics on Biogeochemistry and Community Composition in a Changing Climate. <i>Ecosystems</i> , <b>1999</b> , 2, 367-382	3.9	26
27	Soil organic matter quality interpreted thermodynamically. <i>Soil Biology and Biochemistry</i> , <b>1999</b> , 31, 1889-1891	7.1	324

26	Predicting Long-Term Soil Carbon Storage from Short-Term Information. <i>Soil Science Society of America Journal</i> , <b>1998</b> , 62, 1000-1005	2.5	26
25	RESPONSES OF N-LIMITED ECOSYSTEMS TO INCREASED CO <sub>2</sub> : A BALANCED-NUTRITION, COUPLED-ELEMENT-CYCLES MODEL <b>1997</b> , 7, 444-460		153
24	Theoretical analyses of soil texture effects on organic matter dynamics. <i>Soil Biology and Biochemistry</i> , <b>1997</b> , 29, 1633-1638	7.5	52
23	Modeling biological systems. <i>Forest Ecology and Management</i> , <b>1997</b> , 96, 185-186	3.9	
22	Isotope Discrimination during Decomposition of Organic Matter: A Theoretical Analysis. <i>Soil Science Society of America Journal</i> , <b>1996</b> , 60, 1121-1126	2.5	180
21	Quality: A Bridge between Theory and Experiment in Soil Organic Matter Studies. <i>Oikos</i> , <b>1996</b> , 76, 522	4	102
20	Nitrogen Productivity or Photosynthesis Minus Respiration to Calculate Plant Growth?. <i>Oikos</i> , <b>1996</b> , 76, 529	4	16
19	Plant nutrition and growth: Basic principles. <i>Plant and Soil</i> , <b>1995</b> , 168-169, 15-20	4.2	55
18	Plant nutrition and growth: Basic principles <b>1995</b> , 15-20		1
17	Theories and methods on plant nutrition and growth. <i>Physiologia Plantarum</i> , <b>1992</b> , 84, 177-184	4.6	149
16	Theoretical Analysis of Carbon and Nutrient Interactions in Soils under Energy-Limited Conditions. <i>Soil Science Society of America Journal</i> , <b>1991</b> , 55, 728-733	2.5	23
15	The Influence of Plant Nutrition on Biomass Allocation <b>1991</b> , 1, 168-174		131
14	Dynamics of Carbon and Nitrogen in the Organic Matter of the Soil: A Generic Theory. <i>American Naturalist</i> , <b>1991</b> , 138, 227-245	3.7	126
13	Theory and model or art and technology in ecology. <i>Ecological Modelling</i> , <b>1990</b> , 50, 213-220	3	12
12	Nutrient uptake and allocation at steady-state nutrition. <i>Physiologia Plantarum</i> , <b>1988</b> , 72, 450-459	4.6	112
11	Theoretical Analysis of the Long-Term Dynamics of Carbon and Nitrogen in Soils. <i>Ecology</i> , <b>1987</b> , 68, 1181-1189	4.1	106
10	Limits to plant production. <i>Journal of Theoretical Biology</i> , <b>1985</b> , 113, 89-92	2.3	35
9	Theory for growth of plants derived from the nitrogen productivity concept. <i>Physiologia Plantarum</i> , <b>1985</b> , 64, 17-28	4.6	216

8	Aerosol depletion and deposition in forests: A model analysis. <i>Atmospheric Environment</i> , <b>1985</b> , 19, 335-347		77
7	Aerosol concentration profiles within a mature coniferous forest: Model versus field results. <i>Atmospheric Environment</i> , <b>1985</b> , 19, 363-367		15
6	Limiting Dissimilarity in Plants: Randomness Prevents Exclusion of Species with Similar Competitive Abilities. <i>Oikos</i> , <b>1984</b> , 43, 369	4	71
5	Nitrogen productivity of some conifers. <i>Canadian Journal of Forest Research</i> , <b>1983</b> , 13, 494-500	1.9	91
4	Increased or Decreased Separation of Flowering Times? The Joint Effect of Competition for Space and Pollination in Plants. <i>Oikos</i> , <b>1980</b> , 35, 161	4	9
3	Population respiration: A theoretical approach. <i>Ecological Modelling</i> , <b>1980</b> , 11, 39-54	3	47
2	Theory for Coexistence of Species Differing in Regeneration Properties. <i>Oikos</i> , <b>1979</b> , 33, 1	4	28
1	Mixture of hard spherocylinders and spheres in the virial expansion. <i>Physical Review A</i> , <b>1975</b> , 11, 1040-1048	2.8	15