GÃ¶ran I Ãgren

List of Publications by Year
in descending order

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79 papers	10,691 citations	66234 42 h-index	66788 78 g-index
84 all docs	84 docs citations	84 times ranked	10270 citing authors

#	Article	IF	Citations
1	Temperature and soil organic matter decomposition rates - synthesis of current knowledge and a way forward. Global Change Biology, 2011, 17, 3392-3404.	4.2	1,143
2	Environmental and stoichiometric controls on microbial carbonâ€use efficiency in soils. New Phytologist, 2012, 196, 79-91.	3.5	1,046
3	The likely impact of elevated [CO 2], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems: a literature review. New Phytologist, 2007, 173, 463-480.	3.5	579
4	Temperature sensitivity of soil respiration rates enhanced by microbial community response. Nature, 2014, 513, 81-84.	13.7	528
5	CARBON SEQUESTRATION IN ECOSYSTEMS: THE ROLE OF STOICHIOMETRY. Ecology, 2004, 85, 1179-1192.	1.5	476
6	Stoichiometry and Nutrition of Plant Growth in Natural Communities. Annual Review of Ecology, Evolution, and Systematics, 2008, 39, 153-170.	3.8	446
7	The Câ€ƒ:â€ƒNâ€ƒ:â€ƒP stoichiometry of autotrophs - theory and observations. Ecology Letters, 2004, 7, 185-191	3.0	390
8	Soil organic matter quality interpreted thermodynamically. Soil Biology and Biochemistry, 1999, 31, 1889-1891.	4.2	381
9	Nutrient limitation on terrestrial plant growth â€“ modeling the interaction between nitrogen and phosphorus. New Phytologist, 2012, 194, 953-960.	3.5	320
10	The response of heterotrophic CO2 flux to soil warming. Global Change Biology, 2005, 11, 167-181.	4.2	301
11	Impact of long-term nitrogen addition on carbon stocks in trees and soils in northern Europe. Biogeochemistry, 2008, 89, 121-137.	1.7	274
12	Theory for growth of plants derived from the nitrogen productivity concept. Physiologia Plantarum, 1985, 64, 17-28.	2.6	253
13	Combining theory and experiment to understand effects of inorganic nitrogen on litter decomposition. Oecologia, 2001, 128, 94-98.	0.9	232
14	Isotope Discrimination during Decomposition of Organic Matter: A Theoretical Analysis. Soil Science Society of America Journal, 1996, 60, 1121-1126.	1.2	227
15	RESPONSES OF N-LIMITED ECOSYSTEMS TO INCREASED CO2: A BALANCED-NUTRITION, COUPLED-ELEMENT-CYCLES MODEL. , 1997, 7, 444-460.		213
16	Root : Shoot Ratios, Optimization and Nitrogen Productivity. Annals of Botany, 2003, 92, 795-800.	1.4	211
17	Measuring Fine Root Turnover in Forest Ecosystems. Plant and Soil, 2005, 276, 1-8.	1.8	198
18	Knowledge gaps in soil carbon and nitrogen interactions â€“ From molecular to global scale. Soil Biology and Biochemistry, 2011, 43, 702-717.	4.2	195

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19	Theories and methods on plant nutrition and growth. Physiologia Plantarum, 1992, 84, 177-184.	2.6	175
20	The Influence of Plant Nutrition on Biomass Allocation. , 1991, 1, 168-174.		171
21	Plant stoichiometry at different scales: element concentration patterns reflect environment more than genotype. New Phytologist, 2012, 194, 944-952.	3.5	159
22	Nutrient uptake and allocation at steadyâ€state nutrition. Physiologia Plantarum, 1988, 72, 450-459.	2.6	151
23	Dynamics of Carbon and Nitrogen in the Organic Matter of the Soil: A Generic Theory. American Naturalist, 1991, 138, 227-245.	1.0	145
24	Theoretical Analysis of the Long-Term Dynamics of Carbon and Nitrogen in Soils. Ecology, 1987, 68, 1181-1189.	1.5	142
25	Quality: A Bridge between Theory and Experiment in Soil Organic Matter Studies. Oikos, 1996, 76, 522.	1.2	122
26	Temperature sensitivity and substrate quality in soil organic matter decomposition: results of an incubation study with three substrates. Global Change Biology, 2010, 16, 1806-1819.	4.2	122
27	Pine Forest Floor Carbon Accumulation in Response to N and PK Additions: Bomb 14 C Modelling and Respiration Studies. Ecosystems, 2003, 6, 644-658.	1.6	106
28	Limiting Dissimilarity in Plants: Randomness Prevents Exclusion of Species with Similar Competitive Abilities. Oikos, 1984, 43, 369.	1.2	103
29	Pools and fluxes of carbon in three Norway spruce ecosystems along a climatic gradient in Sweden. Biogeochemistry, 2008, 89, 7-25.	1.7	99
30	Reconciling differences in predictions of temperature response of soil organic matter. Soil Biology and Biochemistry, 2002, 34, 129-132.	4.2	95
31	Aerosol depletion and deposition in forestsâ€”A model analysis. Atmospheric Environment, 1985, 19, 335-347.	1.1	87
32	Organic matter quality in ecological studies: theory meets experiment. Oikos, 2001, 93, 451-458.	1.2	71
33	Modelling the influence of ectomycorrhizal decomposition on plant nutrition and soil carbon sequestration in boreal forest ecosystems. New Phytologist, 2017, 213, 1452-1465.	3.5	71
34	Theoretical analyses of soil texture effects on organic matter dynamics. Soil Biology and Biochemistry, 1997, 29, 1633-1638.	4.2	62
35	Production and turnover of ectomycorrhizal extramatrical mycelial biomass and necromass under elevated CO₂ and nitrogen fertilization. New Phytologist, 2016, 211, 874-885.	3.5	60
36	Plant nutrition and growth: Basic principles. Plant and Soil, 1995, 168-169, 15-20.	1.8	58

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37	Are Swedish forest soils sinks or sources for CO2â€”model analyses based on forest inventory data. Biogeochemistry, 2007, 82, 217-227.	1.7	57
38	Exact solutions to the continuous-quality equation for soil organic matter turnover. Journal of Theoretical Biology, 2003, 224, 97-105.	0.8	55
39	Population respiration: A theoretical approach. Ecological Modelling, 1980, 11, 39-54.	1.2	53
40	Decomposer invasion rate, decomposer growth rate, and substrate chemical quality: how they influence soil organic matter turnover. Canadian Journal of Forest Research, 2001, 31, 1594-1601.	0.8	53
41	Theory for Coexistence of Species Differing in Regeneration Properties. Oikos, 1979, 33, 1.	1.2	49
42	Farmersâ€™ local knowledge and topsoil properties of agroforestry practices in Sidama, Southern Ethiopia. Agroforestry Systems, 2007, 71, 35-48.	0.9	47
43	Relationships Between Tree and Soil Properties in Picea abies and Pinus sylvestris Forests in Sweden. Ecosystems, 2010, 13, 302-316.	1.6	47
44	Soil organic carbon stock changes in Swedish forest soilsâ€”A comparison of uncertainties and their sources through a national inventory and two simulation models. Ecological Modelling, 2013, 251, 221-231.	1.2	46
45	Limits to plant production. Journal of Theoretical Biology, 1985, 113, 89-92.	0.8	42
46	Effects of Plant Growth Characteristics on Biogeochemistry and Community Composition in a Changing Climate. Ecosystems, 1999, 2, 367-382.	1.6	40
47	Combining theory and experiment to understand effects of inorganic nitrogen on litter decomposition. Oecologia, 2001, 128, 464-464.	0.9	40
48	When will litter mixtures decompose faster or slower than individual litters? A model for two litters. Oikos, 2012, 121, 1112-1120.	1.2	40
49	TERRESTRIAL C SEQUESTRATION AT ELEVATED CO2AND TEMPERATURE: THE ROLE OF DISSOLVED ORGANIC N LOSS. , 2005, 15, 71-86.		38
50	Analysing temperature response of decomposition of organic matter. Global Change Biology, 2005, 11, 770-778.	4.2	37
51	Predicting Longâ€Term Soil Carbon Storage from Shortâ€Term Information. Soil Science Society of America Journal, 1998, 62, 1000-1005.	1.2	36
52	Forest carbon balances at the landscape scale investigated with the Q model and the CoupModel â€“ Responses to intensified harvests. Forest Ecology and Management, 2013, 290, 67-78.	1.4	36
53	The climate effect of increased forest bioenergy use in Sweden: evaluation at different spatial and temporal scales. Wiley Interdisciplinary Reviews: Energy and Environment, 2016, 5, 351-369.	1.9	35
54	Effects of variations in simulated changes in soil carbon contents and dynamics on future climate projections. Global Change Biology, 2010, 16, 823-835.	4.2	34

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55	Nitrogen Productivity or Photosynthesis Minus Respiration to Calculate Plant Growth?. Oikos, 1996, 76, 529.	1.2	29
56	Theoretical Analysis of Carbon and Nutrient Interactions in Soils under Energy-Limited Conditions. Soil Science Society of America Journal, 1991, 55, 728-733.	1.2	26
57	Are Swedish forest soils sinks or sources for CO2â€"model analyses based on forest inventory data. Biogeochemistry, 2008, 89, 139-149.	1.7	26
58	Multi-Dimensional Plant Element Stoichiometryâ€"Looking Beyond Carbon, Nitrogen, and Phosphorus. Frontiers in Plant Science, 2020, 11, 23.	1.7	25
59	Carbon balances of bioenergy systems using biomass from forests managed with long rotations: bridging the gap between stand and landscape assessments. GCB Bioenergy, 2017, 9, 1238-1251.	2.5	24
60	Plant nutrition and growth: Basic principles. , 1995, , 15-20.		20
61	Dynamics of soil C, N and Ca in four Swedish forests after removal of tops, branches and stumps as predicted by the Q model. Scandinavian Journal of Forest Research, 2012, 27, 774-786.	0.5	18
62	Aerosol concentration profiles within a mature coniferous forestâ€"Model versus field results. Atmospheric Environment, 1985, 19, 363-367.	1.1	17
63	Theory and model or art and technology in ecology. Ecological Modelling, 1990, 50, 213-220.	1.2	17
64	Microbial mitigation. Nature Geoscience, 2010, 3, 303-304.	5.4	17
65	Simulated mechanisms of soil N feedback on the forest CO2response. Global Change Biology, 2007, 13, 1265-1281.	4.2	16
66	Generic parameters of first-order kinetics accurately describe soil organic matter decay in bare fallow soils over a wide edaphic and climatic range. Scientific Reports, 2019, 9, 20319.	1.6	16
67	Mixture of hard spherocylinders and spheres in the virial expansion. Physical Review A, 1975, 11, 1040-1042.	1.0	15
68	Increased or Decreased Separation of Flowering Times? The Joint Effect of Competition for Space and Pollination in Plants. Oikos, 1980, 35, 161.	1.2	15
69	Modelling carbon dynamics in coniferous forest soils in a temperature gradient. Plant and Soil, 2002, 242, 33-39.	1.8	14
70	Feedback from soil inorganic nitrogen on soil organic matter mineralisation and growth in a boreal forest ecosystem. Plant and Soil, 2011, 338, 193-203.	1.8	13
71	Root respiration data and minirhizotron observations conflict with root turnover estimates from sequential soil coring. Scandinavian Journal of Forest Research, 2007, 22, 299-303.	0.5	12
72	Ectomycorrhiza, Friend or Foe?. Ecosystems, 2019, 22, 1561-1572.	1.6	12

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73	Temperature sensitivity of nitrogen productivity for Scots pine and Norway spruce. Trees - Structure and Function, 2004, 18, 312-319.	0.9	11
74	Modeling Response of N Addition on C and N Allocation in Scandinavian Norway Spruce Stands. Ecosystems, 2005, 8, 373-381.	1.6	11
75	Modeling biological systems. Forest Ecology and Management, 1997, 96, 185-186.	1.4	8
76	Nitrogen productivity and allocation responses of 12 important tree species to increased CO2. Trees - Structure and Function, 2017, 31, 617-621.	0.9	4
77	Modelling Dissolved Organic Carbon Production in Coniferous Forest Soils. Soil Science Society of America Journal, 2018, 82, 1392-1403.	1.2	4
78	Investigating soil carbon diversity by combining the MAXimum ENTropy principle with the Q model. Biogeochemistry, 2021, 153, 85-94.	1.7	2
79	Response to comments on â€œRoot respiration data and minirhizotron observations conflict with root turnover estimates from sequential soil coringâ€. Scandinavian Journal of Forest Research, 2007, 22, 473-474.	0.5	1