Alexander S Komarov

List of Publications by Year
in descending order

37 papers	2,093 citations	361413 20 h-index	345221 36 g-index
39 all docs	39 docs citations	39 times ranked	2219 citing authors

#	Article	IF	Citations
1	A comparison of the performance of nine soil organic matter models using datasets from seven long-term experiments. Geoderma, 1997, 81, 153-225.	5.1	974
2	ROMUL â€" a model of forest soil organic matter dynamics as a substantial tool for forest ecosystem modeling. Ecological Modelling, 2001, 138, 289-308.	2.5	143
3	EFIMOD 2â€"a model of growth and cycling of elements in boreal forest ecosystems. Ecological Modelling, 2003, 170, 373-392.	2.5	117
4	SOMM: A model of soil organic matter dynamics. Ecological Modelling, 1997, 94, 177-189.	2.5	95
5	Recent changes in the exchange of sea ice between the Arctic Ocean and the Canadian Arctic Archipelago. Journal of Geophysical Research: Oceans, 2013, 118, 3595-3607.	2.6	69
6	Influence of climate change, fire and harvest on the carbon dynamics of black spruce in Central Canada. Forest Ecology and Management, 2009, 257, 941-950.	3.2	49
7	Models in country scale carbon accounting of forest soils. Silva Fennica, 2007, 41, .	1.3	47
8	Modelling carbon and nitrogen dynamics in forest ecosystems of Central Russia under different climate change scenarios and forest management regimes. Ecological Modelling, 2011, 222, 2262-2275.	2.5	42
9	Projecting effects of intensified biomass extraction with alternative modelling approaches. Forest Ecology and Management, 2008, 255, 1423-1433.	3.2	40
10	A combined simulation model of Scots pine, Norway spruce and Silver birch ecosystems in the European boreal zone. Forest Ecology and Management, 1999, 116, 189-206.	3.2	39
11	Romul_Hum model of soil organic matter formation coupled with soil biota activity. I. Problem formulation, model description, and testing. Ecological Modelling, 2017, 345, 113-124.	2.5	36
12	Effects of variations in simulated changes in soil carbon contents and dynamics on future climate projections. Global Change Biology, 2010, 16, 823-835.	9.5	34
13	Tree species composition affects productivity and carbon dynamics of different site types in boreal forests. European Journal of Forest Research, 2014, 133, 273-286.	2.5	33
14	Geovisualization of forest simulation modelling results: A case study of carbon sequestration and biodiversity. Computers and Electronics in Agriculture, 2005, 49, 175-191.	7.7	32
15	Dynamics of soil organic matter in primary and secondary forest succession on sandy soils in The Netherlands: An application of the ROMUL model. Ecological Modelling, 2006, 190, 399-418.	2.5	30
16	The concept of discrete description of plant ontogenesis and cellular automata models of plant populations. Ecological Modelling, 2003, 170, 427-439.	2.5	28
17	Application of the forest ecosystem model EFIMOD 2 to jack pine along the Boreal Forest Transect Case Study. Canadian Journal of Soil Science, 2006, 86, 171-185.	1.2	26
18	Romul_Humâ€"A model of soil organic matter formation coupling with soil biota activity. II. Parameterisation of the soil food web biota activity. Ecological Modelling, 2017, 345, 125-139.	2.5	26

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19	Mitigation of climate change with biomass harvesting in Norway spruce stands: are harvesting practices carbon neutral?. Canadian Journal of Forest Research, 2015, 45, 217-225.	1.7	25
20	Modelling the long-term dynamics of populations and communities of trees in boreal forests based on competition for light and nitrogen. Forest Ecology and Management, 2003, 176, 355-369.	3.2	22
21	Integrating forest simulation models and spatial–temporal interactive visualisation for decision making at landscape level. Ecological Modelling, 2002, 148, 47-65.	2.5	20
22	Sea-Ice Motion and Flux within the Prince Gustaf Adolf Sea, Queen Elizabeth Islands, Canada during 2010. Atmosphere - Ocean, 2013, 51, 1-17.	1.6	18
23	Simulating trends of soil organic carbon in seven long-term experiments using the SOMM model of the humus types. Geoderma, 1997, 81, 121-135.	5.1	17
24	Simulated soil organic matter dynamics in forests of the Leningrad administrative area, northwestern Russia. Forest Ecology and Management, 2002, 169, 29-44.	3.2	17
25	Modeling dynamics of forest ground vegetation diversity under different forest management regimes. Forest Ecology and Management, 2007, 248, 80-94.	3.2	17
26	Title is missing!. Plant and Soil, 1999, 213, 31-41.	3.7	16
27	The use of forest ecosystem model EFIMOD for research and practical implementation at forest stand, local and regional levels. Ecological Modelling, 2006, 194, 227-232.	2.5	15
28	Carbon turnover in mixed stands: Modelling possible shifts under climate change. Ecological Modelling, 2013, 251, 232-245.	2.5	14
29	Modelling dynamics of soil organic matter under different historical land-use management techniques in European Russia. Ecological Modelling, 2010, 221, 953-959.	2.5	10
30	Simulation modelling for sustainable forest management: a case-study. Procedia Environmental Sciences, 2012, 13, 535-549.	1.4	10
31	Evidence of plant biodiversity changes as a result of nitrogen deposition in permanent pine forest plots in central Russia. Ecoscience, 2014, 21, 286-300.	1.4	7
32	How Forest Management and Climate Change Affect the Carbon Sequestration of a Norway Spruce Stand?(‹Special Issue›Multipurpose Forest Management). Journal of Forest Planning, 2011, 16, 107-120.	0.1	7
33	Modelling of Soil Organic Matter and Elements of Soil Nutrition Dynamics in Mineral and Organic Forest Soils: the ROMUL Model Expansion. Procedia Environmental Sciences, 2012, 13, 525-534.	1.4	6
34	Extending the ROMUL model to simulate the dynamics of dissolved and sorbed C and N compounds in decomposing boreal mor. Ecological Modelling, 2014, 272, 277-292.	2.5	6
35	Process-Based Models: A Synthesis of Models and Applications to Address Environmental and Management Issues. Applied Ecology and Environmental Management, 2015, , 223-266.	0.1	3
36	Modeling the dynamics of natural forest ecosystems in the northeast of European Russia under climate change and forest fires. Ecoscience, 2014, 21, 253-264.	1.4	2

#	Article	IF	Citations
37	Model Predictions of Effects of Different Climate Change Scenarios on Species Diversity with or without Management Intervention, Repeated Thinning, for a Site in Central European Russia. , 2014, , 173-182.		1