

# Galina Churkina

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

6,867  
citations

117625  
34  
h-index

197818  
49  
g-index

58  
all docs

58  
docs citations

58  
times ranked

8882  
citing authors

#	ARTICLE	IF	CITATIONS
1	Will a Transition to Timber Construction Cool the Climate?. Sustainability, 2022, 14, 4271.	3.2	3
2	From Low- to Net-Zero Carbon Cities: The Next Global Agenda. Annual Review of Environment and Resources, 2021, 46, 377-415.	13.4	73
3	Measuring and Monitoring Urban Impacts on Climate Change from Space. Remote Sensing, 2020, 12, 3494.	4.0	14
4	Buildings as a global carbon sink. Nature Sustainability, 2020, 3, 269-276.	23.7	419
5	Urban trees, air quality, and asthma: An interdisciplinary review. Landscape and Urban Planning, 2019, 187, 47-59.	7.5	166
6	Impact of vegetative emissions on urban ozone and biogenic secondary organic aerosol: Box model study for Berlin, Germany. Journal of Cleaner Production, 2018, 176, 827-841.	9.3	26
7	How Does the Amount and Composition of PM Deposited on <i>Platanus acerifolia</i> Leaves Change Across Different Cities in Europe?. Environmental Science & Technology, 2017, 51, 1147-1156.	10.0	55
8	Effect of VOC Emissions from Vegetation on Air Quality in Berlin during a Heatwave. Environmental Science & Technology, 2017, 51, 6120-6130.	10.0	143
9	Modeling above-ground carbon storage: a remote sensing approach to derive individual tree species information in urban settings. Urban Ecosystems, 2017, 20, 97-111.	2.4	30
10	Terrestrial ecosystem process model Biome-BGCMuSo v4.0: summary of improvements and new modeling possibilities. Geoscientific Model Development, 2016, 9, 4405-4437.	3.6	50
11	The Role of Urbanization in the Global Carbon Cycle. Frontiers in Ecology and Evolution, 2016, 3, .	2.2	90
12	Air quality modelling in the Berlin-Brandenburg region using WRF-Chem v3.7.1: sensitivity to resolution of model grid and input data. Geoscientific Model Development, 2016, 9, 4339-4363.	3.6	77
13	Ozone damage, detoxification and the role of isoprenoids – new impetus for integrated models. Functional Plant Biology, 2016, 43, 324.	2.1	18
14	Functional traits of urban trees: air pollution mitigation potential. Frontiers in Ecology and the Environment, 2016, 14, 543-550.	4.0	255
15	BAERLIN2014 – the influence of land surface types on and the horizontal heterogeneity of air pollutant levels in Berlin. Atmospheric Chemistry and Physics, 2016, 16, 7785-7811.	4.9	25
16	Yield gap of winter wheat in Europe and sensitivity of potential yield to climate factors. Climate Research, 2016, 67, 179-190.	1.1	5
17	Natural selection? Picking the right trees for urban greening. Environmental Science and Policy, 2015, 47, 12-17.	4.9	73
18	Using Airborne LiDAR and QuickBird Data for Modelling Urban Tree Carbon Storage and Its Distribution – A Case Study of Berlin. Remote Sensing, 2014, 6, 10636-10655.	4.0	41

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19	Land management and land-cover change have impacts of similar magnitude on surface temperature. Nature Climate Change, 2014, 4, 389-393.	18.8	404
20	Future carbon cycle in mountain spruce forests of Central Europe: Modelling framework and ecological inferences. Forest Ecology and Management, 2014, 328, 55-68.	3.2	22
21	Components of forest soil CO <sub>2</sub> efflux estimated from $\delta^{14}\text{C}$ values of soil organic matter. Plant and Soil, 2013, 364, 55-68.	3.7	10
22	An Introduction to Carbon Cycle Science. , 2013, , 24-51.		2
23	Carbonization of Urban Areas. , 2012, , 369-382.		1
24	Investigating the impact of climate change on crop phenological events in Europe with a phenology model. International Journal of Biometeorology, 2012, 56, 749-763.	3.0	36
25	Development of the Biome-BGC model for simulation of managed herbaceous ecosystems. Ecological Modelling, 2012, 226, 99-119.	2.5	70
26	Carbon Cycle of Urban Ecosystems. , 2012, , 315-330.		9
27	Optimization and evaluation of the ANTHRO-BGC model for winter crops in Europe. Ecological Modelling, 2011, 222, 3662-3679.	2.5	10
28	Model-Based Biospheric Greenhouse Gas Balance of Hungary. , 2011, , 295-330.		3
29	Climate change impacts on growth and carbon balance of forests in Central Europe. Climate Research, 2011, 47, 219-236.	1.1	91
30	Arable Lands. , 2011, , 263-293.		0
31	Models and Their Adaptation. , 2011, , 201-228.		0
32	Carbon stored in human settlements: the conterminous United States. Global Change Biology, 2010, 16, 135-143.	9.5	195
33	The European carbon balance. Part 3: forests. Global Change Biology, 2010, 16, 1429-1450.	9.5	247
34	Characterization of ecosystem responses to climatic controls using artificial neural networks. Global Change Biology, 2010, 16, 2737-2749.	9.5	75
35	Interactions between nitrogen deposition, land cover conversion, and climate change determine the contemporary carbon balance of Europe. Biogeosciences, 2010, 7, 2749-2764.	3.3	53
36	A comparison of alternative modelling approaches to evaluate the European forest carbon fluxes. Forest Ecology and Management, 2010, 260, 241-251.	3.2	40

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37	Bio-Energy Retains Its Mitigation Potential Under Elevated CO <sub>2</sub> . PLoS ONE, 2010, 5, e11648.	2.5	16
38	Synergy of rising nitrogen depositions and atmospheric CO <sub>2</sub> on land carbon uptake moderately offsets global warming. Global Biogeochemical Cycles, 2009, 23, .	4.9	53
39	Modeling the carbon cycle of urban systems. Ecological Modelling, 2008, 216, 107-113.	2.5	165
40	Statistical properties of random CO <sub>2</sub> flux measurement uncertainty inferred from model residuals. Agricultural and Forest Meteorology, 2008, 148, 38-50.	4.8	128
41	TEMPERATURE SENSITIVITY OF THE TURNOVER TIMES OF SOIL ORGANIC MATTER IN FORESTS. , 2008, 18, 119-131.		43
42	The response of the terrestrial biosphere to urbanization: land cover conversion, climate, and urban pollution. Biogeosciences, 2008, 5, 1505-1515.	3.3	48
43	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. Agricultural and Forest Meteorology, 2007, 147, 209-232.	4.8	744
44	Uncertainties of modeling gross primary productivity over Europe: A systematic study on the effects of using different drivers and terrestrial biosphere models. Global Biogeochemical Cycles, 2007, 21, .	4.9	163
45	Contributions of nitrogen deposition and forest regrowth to terrestrial carbon uptake. Carbon Balance and Management, 2007, 2, 5.	3.2	46
46	Parameter estimation for grassland carbon cycle using nonlinear inversion of Biome-BGC. Cereal Research Communications, 2007, 35, 453-456.	1.6	4
47	Exploiting synergies of global land cover products for carbon cycle modeling. Remote Sensing of Environment, 2006, 101, 534-553.	11.0	399
48	Use of remotely sensed land use classification for a better evaluation of micrometeorological flux measurement sites. Theoretical and Applied Climatology, 2006, 84, 219-233.	2.8	22
49	Spatial analysis of growing season length control over net ecosystem exchange. Global Change Biology, 2005, 11, 1777-1787.	9.5	313
50	Partitioning direct and indirect human-induced effects on carbon sequestration of managed coniferous forests using model simulations and forest inventories. Global Change Biology, 2005, 11, 810-827.	9.5	76
51	Analyzing the Ecosystem Carbon Dynamics of Four European Coniferous Forests Using a Biogeochemistry Model. Ecosystems, 2003, 6, 168-184.	3.4	101
52	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. Nature, 2001, 414, 169-172.	27.8	1,162
53	Title is missing!. Climatic Change, 2000, 47, 167-191.	3.6	15
54	Comparing global models of terrestrial net primary productivity (NPP): the importance of water availability. Global Change Biology, 1999, 5, 46-55.	9.5	127

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55	Contrasting Climatic Controls on the Estimated Productivity of Global Terrestrial Biomes. Ecosystems, 1998, 1, 206-215.	3.4	407