

Anatoly Prokushkin

List of Publications by Citations

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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.

83
papers

2,436
citations

24
h-index

48
g-index

105
ext. papers

2,905
ext. citations

3.7
avg, IF

4.92
L-index

#	Paper	IF	Citations
83	Critical analysis of root : shoot ratios in terrestrial biomes. <i>Global Change Biology</i> , 2006 , 12, 84-96	11.4	860
82	Dissolved organic matter sources in large Arctic rivers. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 94, 217-237	5.3	162
81	Seasonal variability of element fluxes in two Central Siberian rivers draining high latitude permafrost dominated areas. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 3335-3357	5.5	98
80	Do centennial tree-ring and stable isotope trends of <i>Larix gmelinii</i> (Rupr.) Rupr. indicate increasing water shortage in the Siberian north?. <i>Oecologia</i> , 2009 , 161, 825-35	2.9	75
79	Sources and the flux pattern of dissolved carbon in rivers of the Yenisey basin draining the Central Siberian Plateau. <i>Environmental Research Letters</i> , 2011 , 6, 045212	6.2	64
78	Biogeochemistry of carbon, major and trace elements in watersheds of northern Eurasia drained to the Arctic Ocean: The change of fluxes, sources and mechanisms under the climate warming prospective. <i>Comptes Rendus - Geoscience</i> , 2012 , 344, 663-677	1.4	51
77	Biogeochemistry of stable Ca and radiogenic Sr isotopes in a larch-covered permafrost-dominated watershed of Central Siberia. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 114, 169-187	5.5	47
76	Silicon isotope variations in Central Siberian rivers during basalt weathering in permafrost-dominated larch forests. <i>Chemical Geology</i> , 2013 , 355, 103-116	4.2	46
75	Labile pyrogenic dissolved organic carbon in major Siberian Arctic rivers: Implications for wildfire-stream metabolic linkages. <i>Geophysical Research Letters</i> , 2015 , 42, 377-385	4.9	45
74	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020 , 10, 555-560	21.4	44
73	Factors promoting larch dominance in central Siberia: fire versus growth performance and implications for carbon dynamics at the boundary of evergreen and deciduous conifers. <i>Biogeosciences</i> , 2012 , 9, 1405-1421	4.6	43
72	The impact of an inverse climate-isotope relationship in soil water on the oxygen-isotope composition of <i>Larix gmelinii</i> in Siberia. <i>New Phytologist</i> , 2016 , 209, 955-64	9.8	42
71	Root system development of <i>Larix gmelinii</i> trees affected by micro-scale conditions of permafrost soils in central Siberia. <i>Plant and Soil</i> , 2003 , 255, 281-292	4.2	42
70	Magnesium isotopes in permafrost-dominated Central Siberian larch forest watersheds. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 147, 76-89	5.5	40
69	Source- and substrate-specific export of dissolved organic matter from permafrost-dominated forested watershed in central Siberia. <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	37
68	Climatic factors influencing fluxes of dissolved organic carbon from the forest floor in a continuous-permafrost Siberian watershed. <i>Canadian Journal of Forest Research</i> , 2005 , 35, 2130-2140	1.9	36
67	Long-term ecological consequences of forest fires in the continuous permafrost zone of Siberia. <i>Environmental Research Letters</i> , 2020 , 15, 034061	6.2	35

66	The effect of permafrost, vegetation, and lithology on Mg and Si isotope composition of the Yenisey River and its tributaries at the end of the spring flood. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 191, 32-46	5.5	32
65	Tree-ring growth of Gmelin larch under contrasting local conditions in the north of Central Siberia. <i>Dendrochronologia</i> , 2013 , 31, 114-119	2.8	31
64	Seasonal and spatial variability of elemental concentrations in boreal forest larch foliage of Central Siberia on continuous permafrost. <i>Biogeochemistry</i> , 2013 , 113, 435-449	3.8	31
63	Tree ring-based reconstruction of the long-term influence of wildfires on permafrost active layer dynamics in Central Siberia. <i>Science of the Total Environment</i> , 2019 , 652, 314-319	10.2	27
62	Changes in fluxes of carbon dioxide and methane caused by fire in Siberian boreal forest with continuous permafrost. <i>Journal of Environmental Management</i> , 2018 , 228, 405-415	7.9	26
61	Strong radiative effect induced by clouds and smoke on forest net ecosystem productivity in central Siberia. <i>Agricultural and Forest Meteorology</i> , 2018 , 250-251, 376-387	5.8	24
60	Dispersal limitation drives successional pathways in Central Siberian forests under current and intensified fire regimes. <i>Global Change Biology</i> , 2016 , 22, 2178-97	11.4	24
59	Nutrient uptake along a fire gradient in boreal streams of Central Siberia. <i>Freshwater Science</i> , 2015 , 34, 1443-1456	2	23
58	Examining the response of needle carbohydrates from Siberian larch trees to climate using compound-specific $\delta^{13}C$ and concentration analyses. <i>Plant, Cell and Environment</i> , 2015 , 38, 2340-52	8.4	23
57	Zn isotope fractionation in a pristine larch forest on permafrost-dominated soils in Central Siberia. <i>Geochemical Transactions</i> , 2015 , 16, 3	3	21
56	Permafrost and fire as regulators of stream chemistry in basins of the Central Siberian Plateau. <i>Biogeochemistry</i> , 2013 , 116, 55-68	3.8	21
55	The response of $\delta^{13}C$, $\delta^{18}O$ and cell anatomy of <i>Larix gmelinii</i> tree rings to differing soil active layer depths. <i>Dendrochronologia</i> , 2015 , 34, 51-59	2.8	20
54	Specific features of xylogenesis in Dahurian larch, <i>Larix gmelinii</i> (Rupr.) Rupr., growing on permafrost soils in Middle Siberia. <i>Russian Journal of Ecology</i> , 2013 , 44, 361-366	0.7	19
53	Permafrost Regime Affects the Nutritional Status and Productivity of Larches in Central Siberia. <i>Forests</i> , 2018 , 9, 314	2.8	18
52	Water and energy transfer modeling in a permafrost-dominated, forested catchment of Central Siberia: The key role of rooting depth. <i>Permafrost and Periglacial Processes</i> , 2019 , 30, 75-89	4.2	17
51	The influence of heating on organic matter of forest litters and soils under experimental conditions. <i>Eurasian Soil Science</i> , 2007 , 40, 628-635	1.5	17
50	Effect of fire on solute release from organic horizons under larch forest in Central Siberian permafrost terrain. <i>Geoderma</i> , 2011 , 166, 171-180	6.7	16
49	Wildfires lead to decreased carbon and increased nitrogen concentrations in upland arctic streams. <i>Scientific Reports</i> , 2020 , 10, 8722	4.9	15

48	Ecological and conceptual consequences of Arctic pollution. <i>Ecology Letters</i> , 2020 , 23, 1827-1837	10	14
47	Soils of postpyrogenic larch stands in Central Siberia: Morphology, physicochemical properties, and specificity of soil organic matter. <i>Eurasian Soil Science</i> , 2017 , 50, 885-897	1.5	13
46	Productivity of mosses and organic matter accumulation in the litter of sphagnum larch forest in the permafrost zone. <i>Russian Journal of Ecology</i> , 2006 , 37, 225-232	0.7	13
45	Dynamics of soil respiration at different stages of pyrogenic restoration succession with different-aged burns in Evenkia as an example. <i>Russian Journal of Ecology</i> , 2015 , 46, 27-35	0.7	12
44	Long-term trend in CO ₂ concentration in the surface atmosphere over Central Siberia. <i>Russian Meteorology and Hydrology</i> , 2015 , 40, 186-190	0.8	12
43	Wildfire effects on BVOC emissions from boreal forest floor on permafrost soil in Siberia. <i>Science of the Total Environment</i> , 2020 , 711, 134851	10.2	12
42	Fluxes of dissolved organic matter in larch forests in the cryolithozone of central Siberia. <i>Russian Journal of Ecology</i> , 2008 , 39, 151-159	0.7	11
41	The biophysical climate mitigation potential of boreal peatlands during the growing season. <i>Environmental Research Letters</i> , 2020 , 15, 104004	6.2	11
40	Probing the aluminum complexation by Siberian riverine organic matter using solid-state DNP-NMR. <i>Chemical Geology</i> , 2017 , 452, 1-8	4.2	9
39	Post-fire carbon and nitrogen accumulation and succession in Central Siberia. <i>Scientific Reports</i> , 2017 , 7, 12776	4.9	9
38	CH ₄ and N ₂ O dynamics of a <i>Larix gmelinii</i> forest in a continuous permafrost region of central Siberia during the growing season. <i>Polar Science</i> , 2014 , 8, 156-165	2.3	9
37	Succession-driven transformation of plant and soil cover on solifluction sites in the permafrost zone of Central Evenkia. <i>Biology Bulletin</i> , 2010 , 37, 80-88	0.5	9
36	Global Warming and Dissolved Organic Carbon Release from Permafrost Soils. <i>Soil Biology</i> , 2009 , 237-250		9
35	Dissolved Organic Carbon in Upland Forested Watersheds Underlain by Continuous Permafrost in Central Siberia. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2006 , 11, 223-240	3.9	8
34	The Impact of Climatic Factors on CO ₂ Emissions from Soils of Middle-Taiga Forests in Central Siberia: Emission as a Function of Soil Temperature and Moisture. <i>Russian Journal of Ecology</i> , 2020 , 51, 46-56	0.7	7
33	Dynamics of the CO ₂ Fluxes from the Soil Surface in Pine Forests in Central Siberia. <i>Journal of Siberian Federal University - Biology</i> , 2016 , 9, 338-367	0.3	7
32	Interannual Variability of Atmospheric CO ₂ Concentrations over Central Siberia from ZOTTO Data for 2009–2015. <i>Russian Meteorology and Hydrology</i> , 2018 , 43, 288-294	0.8	6
31	Post-fire restoration of organic substance in the ground cover of the larch forests in permafrost zone of Central Evenkia. <i>Biology Bulletin</i> , 2011 , 38, 183-190	0.5	6

30	Sapwood biomass carbon in northern boreal and temperate forests. <i>Global Ecology and Biogeography</i> , 2019 , 28, 640-660	6.1	5
29	Variability of ground CO ₂ concentration in the middle taiga subzone of the Yenisei region of Siberia. <i>Russian Journal of Ecology</i> , 2015 , 46, 143-151	0.7	5
28	Linking trace gas measurements and molecular tracers of organic matter in aerosols for identification of ecosystem sources and types of wildfires in Central Siberia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 48, 012017	0.3	5
27	Intraseasonal Dynamics of River Discharge and Burned Forest Areas in Siberia. <i>Water (Switzerland)</i> , 2019 , 11, 1146	3	5
26	The intensity of phytodetrite decomposition in larch forest of the permafrost zone in Central Siberia. <i>Biology Bulletin</i> , 2014 , 41, 89-97	0.5	5
25	Modeling of the thermal influence of fires on the physicochemical properties and microbial activity of litter in cryogenic soils. <i>Eurasian Soil Science</i> , 2014 , 47, 809-818	1.5	5
24	Weak impact of landscape parameters and rock lithology on Mg isotope composition of the Yenisey River and its tributaries. <i>Chemical Geology</i> , 2020 , 540, 119547	4.2	4
23	Intraseasonal carbon sequestration and allocation in larch trees growing on permafrost in Siberia after C labeling (two seasons of 2013-2014 observation). <i>Photosynthesis Research</i> , 2016 , 130, 267-274	3.7	4
22	Post fire organic matter biodegradation in permafrost soils: Case study after experimental heating of mineral horizons. <i>Science of the Total Environment</i> , 2016 , 573, 1255-1264	10.2	4
21	A Complex Approach for the Estimation of Carbonaceous Emissions from Wildfires in Siberia. <i>Russian Meteorology and Hydrology</i> , 2018 , 43, 295-301	0.8	4
20	Role of climate in removing dissolved organic matter from cryolithozone watersheds in central Siberia. <i>Russian Meteorology and Hydrology</i> , 2007 , 32, 404-412	0.8	4
19	Evidence that modern fires may be unprecedented during the last 3400 years in permafrost zone of Central Siberia, Russia. <i>Environmental Research Letters</i> , 2022 , 17, 025004	6.2	4
18	Major anion and cation fluxes from the Central Siberian Plateau watersheds with underlying permafrost. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 48, 012018	0.3	3
17	Sources of Dissolved Organic Carbon in Rivers of the Yenisei River Basin. <i>Doklady Earth Sciences</i> , 2018 , 480, 763-766	0.6	3
16	Export of dissolved carbon from watersheds of the Central Siberian Plateau. <i>Doklady Earth Sciences</i> , 2011 , 441, 1568-1571	0.6	3
15	Behavior of Dissolved Organic Carbon in Larch Ecosystems. <i>Ecological Studies</i> , 2010 , 205-228	1.1	3
14	The ABCflux database: Arctic Boreal CO ₂ flux observations and ancillary information aggregated to monthly time steps across terrestrial ecosystems. <i>Earth System Science Data</i> , 2022 , 14, 179-208	10.5	3
13	Soil respiration in larch and pine ecosystems of the Krasnoyarsk region (Russian Federation): a latitudinal comparative study. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	3

12	Continuous CO ₂ and CH ₄ Observations in the Coastal Arctic Atmosphere of the Western Taimyr Peninsula, Siberia: The First Results from a New Measurement Station in Dikson. <i>Atmosphere</i> , 2021 , 12, 876	2.7	3
11	The content of organic carbon and its water-soluble fraction in the soils of Central Evenkia post-fire larch associations. <i>Contemporary Problems of Ecology</i> , 2011 , 4, 462-468	0.8	2
10	Temporal Variability of CO ₂ and CH ₄ Concentration in the Atmosphere of Middle Taiga Ecosystems of Siberia. <i>Izvestiya Rossiiskaya Akademii Nauk, Seriya Geograficheskaya</i> , 2015 , 112		2
9	Microbiological Parameters and Peat Stratigraphy of Two Types of Bogs in the Northern Part of the SymDubches Interfluve (Krasnoyarsk Krai). <i>Biology Bulletin</i> , 2018 , 45, 160-170	0.5	1
8	Water-soluble organic carbon on a forested watershed underlain by continuous permafrost and its export to stream. <i>Forest Science and Technology</i> , 2006 , 2, 92-101	1.5	1
7	Root system development of <i>Larix gmelinii</i> trees affected by micro-scale conditions of permafrost soils in central Siberia 2003 , 281-292		1
6	Temperature Control of Spring CO ₂ Fluxes at a Coniferous Forest and a Peat Bog in Central Siberia. <i>Atmosphere</i> , 2021 , 12, 984	2.7	1
5	Influence of the Underlying Surface on Greenhouse Gas Concentrations in the Atmosphere Over Central Siberia. <i>Geography and Natural Resources</i> , 2019 , 40, 221-229	0.4	1
4	Winter CO ₂ Fluxes in Ecosystems of Central Siberia: Comparative Estimates Using Three Different Approaches. <i>Russian Journal of Ecology</i> , 2021 , 52, 126-135	0.7	0
3	Fire as a Major Factor in Dynamics of Tree-Growth and Stable ¹³ C and ¹⁸ O Variations in Larch in the Permafrost Zone. <i>Forests</i> , 2022 , 13, 725	2.8	0
2	Phytomass Reserves and Distribution of Biogenic Elements in Gmelin Larch Stands in Central Evenkia (Using the Example of a Small Drainage Basin). <i>Biology Bulletin</i> , 2021 , 48, 84-93	0.5	
1	Distribution of Tracheid Lumen Areas within Annual Rings at Different Heights of Larch Stem under Permafrost Conditions. Crown Dieback. <i>Russian Journal of Ecology</i> , 2021 , 52, 391-398	0.7	