

Alexander Kirdyanov

List of Publications by Year in descending order

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76
papers

4,628
citations

101543

36
h-index

102487

66
g-index

80
all docs

80
docs citations

80
times ranked

4436
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooling and societal change during the Late Antique Little Ice Age from 536 to around 660 AD. <i>Nature Geoscience</i> , 2016, 9, 231-236.	12.9	596
2	Influence of snowfall and melt timing on tree growth in subarctic Eurasia. <i>Nature</i> , 1999, 400, 149-151.	27.8	536
3	Woody biomass production lags stem-girth increase by over one month in coniferous forests. <i>Nature Plants</i> , 2015, 1, 15160.	9.3	294
4	The importance of early summer temperature and date of snow melt for tree growth in the Siberian Subarctic. <i>Trees - Structure and Function</i> , 2003, 17, 61-69.	1.9	210
5	Tree rings and volcanic cooling. <i>Nature Geoscience</i> , 2012, 5, 836-837.	12.9	137
6	Revising midlatitude summer temperatures back to A.D. 600 based on a wood density network. <i>Geophysical Research Letters</i> , 2015, 42, 4556-4562.	4.0	134
7	Forests synchronize their growth in contrasting Eurasian regions in response to climate warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 662-667.	7.1	126
8	Trends and uncertainties in Siberian indicators of 20th century warming. <i>Global Change Biology</i> , 2010, 16, 386-398.	9.5	103
9	Tree rings reveal globally coherent signature of cosmogenic radiocarbon events in 774 and 993 CE. <i>Nature Communications</i> , 2018, 9, 3605.	12.8	98
10	Scientific Merits and Analytical Challenges of Tree-Ring Densitometry. <i>Reviews of Geophysics</i> , 2019, 57, 1224-1264.	23.0	98
11	Limited capacity of tree growth to mitigate the global greenhouse effect under predicted warming. <i>Nature Communications</i> , 2019, 10, 2171.	12.8	92
12	Climate signals in tree-ring width, density and $\delta^{13}C$ from larches in Eastern Siberia (Russia). <i>Chemical Geology</i> , 2008, 252, 31-41.	3.3	91
13	20th century tree-line advance and vegetation changes along an altitudinal transect in the Putorana Mountains, northern Siberia. <i>Boreas</i> , 2012, 41, 56-67.	2.4	91
14	Reassessing the evidence for tree-growth and inferred temperature change during the Common Era in Yamalia, northwest Siberia. <i>Quaternary Science Reviews</i> , 2013, 72, 83-107.	3.0	91
15	Ranking of tree-ring based temperature reconstructions of the past millennium. <i>Quaternary Science Reviews</i> , 2016, 145, 134-151.	3.0	91
16	Temperature-induced recruitment pulses of Arctic dwarf shrub communities. <i>Journal of Ecology</i> , 2015, 103, 489-501.	4.0	90
17	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, 825-835.	2.0	83
18	Temperature-induced responses of xylem structure of <i>Larix sibirica</i> (Pinaceae) from the Russian Altay. <i>American Journal of Botany</i> , 2013, 100, 1332-1343.	1.7	82

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19	VS-oscilloscope: A new tool to parameterize tree radial growth based on climate conditions. <i>Dendrochronologia</i> , 2016, 39, 42-50.	2.2	79
20	Diverse growth trends and climate responses across Eurasia's boreal forest. <i>Environmental Research Letters</i> , 2016, 11, 074021.	5.2	75
21	Structure and Function of Intra-Annual Density Fluctuations: Mind the Gaps. <i>Frontiers in Plant Science</i> , 2016, 7, 595.	3.6	72
22	Prominent role of volcanism in Common Era climate variability and human history. <i>Dendrochronologia</i> , 2020, 64, 125757.	2.2	66
23	The influence of decision-making in tree ring-based climate reconstructions. <i>Nature Communications</i> , 2021, 12, 3411.	12.8	59
24	Comparing forest measurements from tree rings and a space-based index of vegetation activity in Siberia. <i>Environmental Research Letters</i> , 2013, 8, 035034.	5.2	59
25	Long-term ecological consequences of forest fires in the continuous permafrost zone of Siberia. <i>Environmental Research Letters</i> , 2020, 15, 034061.	5.2	58
26	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, 955-964.	7.3	50
27	Ranking of tree-ring based hydroclimate reconstructions of the past millennium. <i>Quaternary Science Reviews</i> , 2020, 230, 106074.	3.0	50
28	A multi-proxy approach for revealing recent climatic changes in the Russian Altai. <i>Climate Dynamics</i> , 2012, 38, 175-188.	3.8	49
29	Global fading of the temperature-growth coupling at alpine and polar treelines. <i>Global Change Biology</i> , 2021, 27, 1879-1889.	9.5	46
30	Climatically induced interannual variability in aboveground production in forest-tundra and northern taiga of central Siberia. <i>Oecologia</i> , 2006, 147, 86-95.	2.0	45
31	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.	8.0	43
32	Separating the climatic signal from tree-ring width and maximum latewood density records. <i>Trees - Structure and Function</i> , 2006, 21, 37-44.	1.9	40
33	Tree-ring growth of Gmelin larch under contrasting local conditions in the north of Central Siberia. <i>Dendrochronologia</i> , 2013, 31, 114-119.	2.2	40
34	Examining the response of needle carbohydrates from Siberian larch trees to climate using compound-specific $\delta^{13}\text{C}$ and concentration analyses. <i>Plant, Cell and Environment</i> , 2015, 38, 2340-2352.	5.7	40
35	Twentieth century trends in tree ring stable isotopes ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) in <i>Larix gmelinii</i> in Siberia. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
36	Tracing the origin of Arctic driftwood. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 68-76.	3.0	37

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37	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.	3.5	35
38	Ecological and conceptual consequences of Arctic pollution. <i>Ecology Letters</i> , 2020, 23, 1827-1837.	6.4	31
39	Zn isotope fractionation in a pristine larch forest on permafrost-dominated soils in Central Siberia. <i>Geochemical Transactions</i> , 2015, 16, 3.	0.7	30
40	Influence of wood density in tree-ring-based annual productivity assessments and its errors in Norway spruce. <i>Biogeosciences</i> , 2015, 12, 6205-6217.	3.3	27
41	The relationship between needle sugar carbon isotope ratios and tree rings of larch in Siberia. <i>Tree Physiology</i> , 2015, 35, tpv096.	3.1	27
42	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.	0.9	26
43	Siberian tree-ring and stable isotope proxies as indicators of temperature and moisture changes after major stratospheric volcanic eruptions. <i>Climate of the Past</i> , 2019, 15, 685-700.	3.4	26
44	Minimum wood density of conifers portrays changes in early season precipitation at dry and cold Eurasian regions. <i>Trees - Structure and Function</i> , 2017, 31, 1423-1437.	1.9	25
45	Warming Effects on <i>Pinus sylvestris</i> in the Cold "Dry Siberian Forest" Steppe: Positive or Negative Balance of Trade?. <i>Forests</i> , 2017, 8, 490.	2.1	25
46	Timber Logging in Central Siberia is the Main Source for Recent Arctic Driftwood. <i>Arctic, Antarctic, and Alpine Research</i> , 2015, 47, 449-460.	1.1	24
47	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.	2.2	23
48	Permafrost Regime Affects the Nutritional Status and Productivity of Larches in Central Siberia. <i>Forests</i> , 2018, 9, 314.	2.1	22
49	Climatic factors controlling <i>Pinus sylvestris</i> radial growth along a transect of increasing continentality in southern Siberia. <i>Dendrochronologia</i> , 2020, 62, 125709.	2.2	22
50	Wood transformation in dead-standing trees in the forest-tundra of Central Siberia. <i>Biology Bulletin</i> , 2009, 36, 58-65.	0.5	21
51	Variability of ray anatomy of <i>Larix gmelinii</i> along a forest productivity gradient in Siberia. <i>Trees - Structure and Function</i> , 2015, 29, 1165-1175.	1.9	21
52	No Age Trends in Oak Stable Isotopes. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003831.	2.9	21
53	Dendro-provenancing of Arctic driftwood. <i>Quaternary Science Reviews</i> , 2017, 162, 1-11.	3.0	20
54	The Relationship Between Variability of Cell Wall Mass of Earlywood and Latewood Tracheids in Larch Tree-Rings, the Rate of Tree-Ring Growth and Climatic Changes. <i>Holzforschung</i> , 2003, 57, 1-7.	1.9	17

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55	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.	0.9	15
56	1929-YEAR TREE-RING CHRONOLOGY FOR THE ALTAI-SAYAN REGION (WESTERN TUVA). <i>Archaeology, Ethnology and Anthropology of Eurasia</i> , 2008, 36, 25-31.	0.2	14
57	Regional coherency of boreal forest growth defines Arctic driftwood provenancing. <i>Dendrochronologia</i> , 2016, 39, 3-9.	2.2	13
58	Trends In Elemental Concentrations of Tree Rings From the Siberian Arctic. <i>Tree-Ring Research</i> , 2016, 72, 67-77.	0.6	13
59	Reply to 'Limited Late Antique cooling'. <i>Nature Geoscience</i> , 2017, 10, 243-243.	12.9	13
60	Notes towards an optimal sampling strategy in dendroclimatology. <i>Dendrochronologia</i> , 2018, 52, 162-166.	2.2	11
61	Linking tree growth and intra-annual density fluctuations to climate in suppressed and dominant <i>Pinus sylvestris</i> L. trees in the forest-steppe of Southern Siberia. <i>Dendrochronologia</i> , 2021, 67, 125842.	2.2	11
62	Cruising an archive: On the palaeoclimatic value of the Lena Delta. <i>Holocene</i> , 2014, 24, 627-630.	1.7	10
63	Effects of Boreal Timber Rafting on the Composition of Arctic Driftwood. <i>Forests</i> , 2016, 7, 257.	2.1	10
64	Long-term recruitment dynamics of arctic dwarf shrub communities in coastal east Greenland. <i>Dendrochronologia</i> , 2018, 50, 70-80.	2.2	10
65	Die-off dynamics of Siberian larch under the impact of pollutants emitted by Norilsk enterprises. <i>Contemporary Problems of Ecology</i> , 2014, 7, 679-684.	0.7	9
66	Contribution of Xylem Anatomy to Tree-Ring Width of Two Larch Species in Permafrost and Non-Permafrost Zones of Siberia. <i>Forests</i> , 2020, 11, 1343.	2.1	9
67	Global tree-ring response and inferred climate variation following the mid-thirteenth century Samalas eruption. <i>Climate Dynamics</i> , 2022, 59, 531-546.	3.8	9
68	Recognising bias in Common Era temperature reconstructions. <i>Dendrochronologia</i> , 2022, 74, 125982.	2.2	8
69	Intraseasonal carbon sequestration and allocation in larch trees growing on permafrost in Siberia after ¹³ C labeling (two seasons of 2013â€“2014 observation). <i>Photosynthesis Research</i> , 2016, 130, 267-274.	2.9	6
70	Modern aridity in the Altai-Sayan mountain range derived from multiple millennial proxies. <i>Scientific Reports</i> , 2022, 12, 7752.	3.3	5
71	Short communication: Driftwood provides reliable chronological markers in Arctic coastal deposits. <i>Geochronology</i> , 2021, 3, 171-180.	2.5	4
72	Arctic aerosols and the "Divergence Problem"™ in dendroclimatology. <i>Dendrochronologia</i> , 2021, 67, 125837.	2.2	4

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73	The buffering effect of the Lake Baikal on climate impact on <i>Pinus sylvestris</i> L. radial growth. <i>Agricultural and Forest Meteorology</i> , 2022, 313, 108764.	4.8	4
74	Fire as a Major Factor in Dynamics of Tree-Growth and Stable $\delta^{13}C$ and $\delta^{18}O$ Variations in Larch in the Permafrost Zone. <i>Forests</i> , 2022, 13, 725.	2.1	4
75	Towards the Third Millennium Changes in Siberian Triple Tree-Ring Stable Isotopes. <i>Forests</i> , 2022, 13, 934.	2.1	3
76	Predicted sea-ice loss will terminate Iceland's driftwood supply by 2060 A.D. <i>Global and Planetary Change</i> , 2022, 213, 103834.	3.5	1