Sergey Marchenko

List of Publications by Year
in descending order

27 papers	2,754 citations	448610 19 h-index	591227 27 g-index
27 all docs	27 docs citations	27 times ranked	3621 citing authors

#	Article	IF	Citations
1	Effects of fire history on thermal regimes of permafrost in the northern Da Xingâ€™anling Mountains, NE China. Geoderma, 2022, 410, 115670.	2.3	9
2	Permafrost Degradation and Its Hydrogeological Impacts. Water (Switzerland), 2022, 14, 372.	1.2	33
3	Impacts of climate-induced permafrost degradation on vegetation: A review. Advances in Climate Change Research, 2021, 12, 29-47.	2.1	137
4	Streamflow Changes in the Headwater Area of Yellow River, NE Qinghai-Tibet Plateau during 1955â€“2040 and Their Implications. Water (Switzerland), 2021, 13, 1360.	1.2	4
5	Coâ€producing knowledge: the Integrated Ecosystem Model for resource management in Arctic Alaska. Frontiers in Ecology and the Environment, 2020, 18, 447-455.	1.9	3
6	Catchment Hydrological Modeling with Soil Thermal Dynamics during Seasonal Freeze-Thaw Cycles. Water (Switzerland), 2019, 11, 116.	1.2	9
7	Impacts of degrading permafrost on streamflow in the source area of Yellow River on the Qinghai-Tibet Plateau, China. Advances in Climate Change Research, 2019, 10, 225-239.	2.1	47
8	Evolution of permafrost in China during the last 20 ka. Science China Earth Sciences, 2019, 62, 1207-1223.	2.3	44
9	Dependence of the evolution of carbon dynamics in the northern permafrost region on the trajectory of climate change. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3882-3887.	3.3	296
10	Difference between near-surface air, land surface and ground surface temperatures and their influences on the frozen ground on the Qinghai-Tibet Plateau. Geoderma, 2018, 312, 74-85.	2.3	102
11	Elevationâ€dependent thermal regime and dynamics of frozen ground in the Bayan Har Mountains, northeastern Qinghaiâ€Tibet Plateau, southwest China. Permafrost and Periglacial Processes, 2018, 29, 257-270.	1.5	54
12	Climate change damages to Alaska public infrastructure and the economics of proactive adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E122-E131.	3.3	174
13	Recent changes in the active layer thickness across the northern hemisphere. Environmental Earth Sciences, 2016, 75, 1.	1.3	88
14	Late Quaternary Permafrost Distributions Downscaled for South America: Examinations of GCMâ€based Maps with Observations. Permafrost and Periglacial Processes, 2016, 27, 43-55.	1.5	15
15	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. Global Biogeochemical Cycles, 2016, 30, 1015-1037.	1.9	116
16	Evaluation of <scp>LPM</scp> permafrost distribution in <scp>NE A</scp>sia reconstructed and downscaled from <scp>GCM</scp> simulations. Boreas, 2014, 43, 733-749.	1.2	19
17	The extent of permafrost in China during the local Last Glacial Maximum (LLGM). Boreas, 2014, 43, 688-698.	1.2	40
18	The <scp>L</scp>ast <scp>P</scp>ermafrost <scp>M</scp>aximum (<scp>LPM</scp>) map of the <scp>N</scp>orthern <scp>H</scp>emisphere: permafrost extent and mean annual air temperatures, 25â€“17â€‰ka <scp>BP</scp>. Boreas, 2014, 43, 652-666.	1.2	179

#	Article	IF	Citations
19	Distribution and changes of active layer thickness (ALT) and soil temperature (TTOP) in the source area of the Yellow River using the GIPL model. Science China Earth Sciences, 2014, 57, 1834-1845.	2.3	54
20	Influence of the physical terrestrial Arctic in the ecoâ€climate system. Ecological Applications, 2013, 23, 1778-1797.	1.8	20
21	Vulnerability of high-latitude soil organic carbon in North America to disturbance. Journal of Geophysical Research, 2011, 116, .	3.3	337
22	High-resolution mapping of ecosystem carbon storage and potential effects of permafrost thaw in periglacial terrain, European Russian Arctic. Journal of Geophysical Research, 2011, 116, .	3.3	88
23	Resilience and vulnerability of permafrost to climate changeThis article is one of a selection of papers from The Dynamics of Change in Alaskaâ€™s Boreal Forests: Resilience and Vulnerability in Response to Climate Warming.. Canadian Journal of Forest Research, 2010, 40, 1219-1236.	0.8	435
24	Thermally-Conditioned Paleo-Permafrost Variations from Global Climate Modeling. Scientific Online Letters on the Atmosphere, 2009, 5, 101-104.	0.6	11
25	Interactions between soil thermal and hydrological dynamics in the response of Alaska ecosystems to fire disturbance. Journal of Geophysical Research, 2009, 114, .	3.3	72
26	Recent advances in permafrost modelling. Permafrost and Periglacial Processes, 2008, 19, 137-156.	1.5	327
27	Comparison of model-produced active layer fields: Results for northern Alaska. Journal of Geophysical Research, 2007, 112, .	3.3	41