

Birgit Heim

List of Publications by Year in descending order

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55
papers

1,718
citations

218677

26
h-index

315739

38
g-index

79
all docs

79
docs citations

79
times ranked

2756
citing authors

#	ARTICLE	IF	CITATIONS
1	Subpixel heterogeneity of ice-wedge polygonal tundra: a multi-scale analysis of land cover and evapotranspiration in the Lena River Delta, Siberia. Tellus, Series B: Chemical and Physical Meteorology, 2022, 64, 17301.	1.6	94
2	Spring snow cover duration and tundra greenness in the Lena Delta, Siberia: two decades of MODIS satellite time series (2001â€“2021). Environmental Research Letters, 2022, 17, 085005.	5.2	3
3	LegacyPollen 1.0: a taxonomically harmonized global late Quaternary pollen dataset of 2831 records with standardized chronologies. Earth System Science Data, 2022, 14, 3213-3227.	9.9	7
4	The impact of the freezeâ€“melt cycle of land-fast ice on the distribution of dissolved organic matter in the Laptev and East Siberian seas (Siberian Arctic). Biogeosciences, 2021, 18, 3637-3655.	3.3	4
5	Recent above-ground biomass changes in central Chukotka (Russian Far East) using field sampling and Landsat satellite data. Biogeosciences, 2021, 18, 3343-3366.	3.3	7
6	First pan-Arctic assessment of dissolved organic carbon in lakes of the permafrost region. Biogeosciences, 2021, 18, 3917-3936.	3.3	12
7	The Arctic Nearshore Turbidity Algorithm (ANTA) - A multi sensor turbidity algorithm for Arctic nearshore environments. Science of Remote Sensing, 2021, 4, 100036.	4.8	6
8	Identifying Drivers of Seasonality in Lena River Biogeochemistry and Dissolved Organic Matter Fluxes. Frontiers in Environmental Science, 2020, 8, .	3.3	44
9	Recent trends and remaining challenges for optical remote sensing of Arctic tundra vegetation: A review and outlook. Remote Sensing of Environment, 2020, 246, 111872.	11.0	82
10	Strong shrub expansion in tundra-taiga, tree infilling in taiga and stable tundra in central Chukotka (north-eastern Siberia) between 2000 and 2017. Environmental Research Letters, 2020, 15, 085006.	5.2	28
11	Dissolved organic matter at the fluvialâ€“marine transition in the Laptev Sea using in situ data and ocean colour remote sensing. Biogeosciences, 2019, 16, 2693-2713.	3.3	39
12	Gasâ€“emission craters of the Yamal and Gydan peninsulas: A proposed mechanism for lake genesis and development of permafrost landscapes. Permafrost and Periglacial Processes, 2019, 30, 146-162.	3.4	29
13	Assessing the Influence of Water Constituents on the Radiative Heating of Laptev Sea Shelf Waters. Frontiers in Marine Science, 2019, 6, .	2.5	14
14	Comparisons of dissolved organic matter and its optical characteristics in small low and high Arctic catchments. Biogeosciences, 2019, 16, 4535-4553.	3.3	20
15	Long-Term High-Resolution Sediment and Sea Surface Temperature Spatial Patterns in Arctic Nearshore Waters Retrieved Using 30-Year Landsat Archive Imagery. Remote Sensing, 2019, 11, 2791.	4.0	21
16	Ocean Colour Remote Sensing in the Laptev Sea. , 2019, , 123-138.		1
17	Correction to “A Statistical Test of Phase Closure to Detect Influences on DInSAR Deformation Estimates Besides Displacements and Decorrelation Noise: Two Case Studies in High-Latitude Regions” [Sep 16 5588-5601]. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 623-623.	6.3	1
18	Monitoring pigmentâ€“driven vegetation changes in a lowâ€“Arctic tundra ecosystem using digital cameras. Ecosphere, 2018, 9, e02123.	2.2	11

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19	Evaluation of a MetOp ASCAT-Derived Surface Soil Moisture Product in Tundra Environments. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 3190-3205.	2.8	5
20	Assessing the dynamics of vegetation productivity in circumpolar regions with different satellite indicators of greenness and photosynthesis. <i>Biogeosciences</i> , 2018, 15, 6221-6256.	3.3	28
21	TerraSAR-X Time Series Fill a Gap in Spaceborne Snowmelt Monitoring of Small Arctic Catchments – A Case Study on Qikiqtaruk (Herschel Island), Canada. <i>Remote Sensing</i> , 2018, 10, 1155.	4.0	10
22	Circumpolar Arctic Vegetation Classification. <i>Phytocoenologia</i> , 2018, 48, 181-201.	0.5	40
23	Monitoring Inter- and Intra-Seasonal Dynamics of Rapidly Degrading Ice-Rich Permafrost Riverbanks in the Lena Delta with TerraSAR-X Time Series. <i>Remote Sensing</i> , 2018, 10, 51.	4.0	28
24	Terrestrial CDOM in Lakes of Yamal Peninsula: Connection to Lake and Lake Catchment Properties. <i>Remote Sensing</i> , 2018, 10, 167.	4.0	14
25	Thaw Subsidence of a Yedoma Landscape in Northern Siberia, Measured In Situ and Estimated from TerraSAR-X Interferometry. <i>Remote Sensing</i> , 2018, 10, 494.	4.0	69
26	Effect of Terrain Characteristics on Soil Organic Carbon and Total Nitrogen Stocks in Soils of Herschel Island, Western Canadian Arctic. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 92-107.	3.4	46
27	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. <i>Remote Sensing</i> , 2017, 9, 1052.	4.0	88
28	A Phenological Approach to Spectral Differentiation of Low-Arctic Tundra Vegetation Communities, North Slope, Alaska. <i>Remote Sensing</i> , 2017, 9, 1200.	4.0	14
29	Monitoring of Calcite Precipitation in Hardwater Lakes with Multi-Spectral Remote Sensing Archives. <i>Water (Switzerland)</i> , 2017, 9, 15.	2.7	9
30	In Situ and Satellite Observation of CDOM and Chlorophyll-a Dynamics in Small Water Surface Reservoirs in the Brazilian Semi-arid Region. <i>Water (Switzerland)</i> , 2017, 9, 913.	2.7	22
31	Monitoring Bedfast Ice and Ice Phenology in Lakes of the Lena River Delta Using TerraSAR-X Backscatter and Coherence Time Series. <i>Remote Sensing</i> , 2016, 8, 903.	4.0	32
32	Landscape controls and vertical variability of soil organic carbon storage in permafrost-affected soils of the Lena River Delta. <i>Catena</i> , 2016, 147, 725-741.	5.0	46
33	Spatio-temporal variability of X-band radar backscatter and coherence over the Lena River Delta, Siberia. <i>Remote Sensing of Environment</i> , 2016, 182, 169-191.	11.0	30
34	A Statistical Test of Phase Closure to Detect Influences on γDInSAR</math> Deformation Estimates Besides Displacements and Decorrelation Noise: Two Case Studies in High-Latitude Regions. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 5588-5601.	6.3	52
35	Satellite-derived changes in the permafrost landscape of central Yakutia, 2000–2011: Wetting, drying, and fires. <i>Global and Planetary Change</i> , 2016, 139, 116-127.	3.5	69
36	Sea-level evolution of the Laptev Sea and the East Siberian Sea since the last glacial maximum. <i>Arktos</i> , 2015, 1, 1.	1.0	22

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37	From Fresh to Marine Waters: Characterization and Fate of Dissolved Organic Matter in the Lena River Delta Region, Siberia. <i>Frontiers in Marine Science</i> , 2015, 2, .	2.5	77
38	Lena Delta hydrology and geochemistry: long-term hydrological data and recent field observations. <i>Biogeosciences</i> , 2015, 12, 345-363.	3.3	69
39	A novel approach for the characterization of tundra wetland regions with C-band SAR satellite data. <i>International Journal of Remote Sensing</i> , 2015, 36, 5537-5556.	2.9	32
40	Ocean colour remote sensing in the southern Laptev Sea: evaluation and applications. <i>Biogeosciences</i> , 2014, 11, 4191-4210.	3.3	28
41	Evaluation of Arctic Land Snow Cover Characteristics, Surface Albedo, and Temperature during the Transition Seasons from Regional Climate Model Simulations and Satellite Data. <i>Advances in Meteorology</i> , 2014, 2014, 1-15.	1.6	16
42	Preferential burial of permafrost-derived organic carbon in Siberian Arctic shelf waters. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8410-8421.	2.6	71
43	A pollen-climate transfer function from the tundra and taiga vegetation in Arctic Siberia and its applicability to a Holocene record. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 386, 702-713.	2.3	61
44	A Manual Transportable Instrument Platform for Ground-Based Spectro-Directional Observations (ManTIS) and the Resultant Hyperspectral Field Goniometer System. <i>Sensors</i> , 2013, 13, 16105-16128.	3.8	13
45	Interannual variability of surface and bottom sediment transport on the Laptev Sea shelf during summer. <i>Biogeosciences</i> , 2013, 10, 1117-1129.	3.3	29
46	Ground-Based Hyperspectral Characterization of Alaska Tundra Vegetation along Environmental Gradients. <i>Remote Sensing</i> , 2013, 5, 3971-4005.	4.0	36
47	Water Body Distributions Across Scales: A Remote Sensing Based Comparison of Three Arctic Tundra Wetlands. <i>Remote Sensing</i> , 2013, 5, 1498-1523.	4.0	103
48	Phytoplankton community structure in the Lena Delta (Siberia, Russia) in relation to hydrography. <i>Biogeosciences</i> , 2013, 10, 7263-7277.	3.3	19
49	Automatic detection and delineation of surface water bodies in airborne hyperspectral data. , 2012, , .		7
50	Assembly and concept of a web-based GIS within the paleolimnological project CONTINENT (Lake Baikal, Tj ETQq0,0,0 rgBT /Qverlock 1	1.6	4
51	Mineralogical signatures of Lake Baikal sediments: Sources of sediment supplies through Late Quaternary. <i>Sedimentary Geology</i> , 2007, 194, 37-59.	2.1	36
52	Variation in Lake Baikal's phytoplankton distribution and fluvial input assessed by SeaWiFS satellite data. <i>Global and Planetary Change</i> , 2005, 46, 9-27.	3.5	27
53	Monitoring of trophic parameter Chl-a using hyperspectral CHRIS-PROBA data. , 2004, , .		1
54	On the Use of Airborne Imaging Spectroscopy Data for the Automatic Detection and Delineation of Surface Water Bodies. , 0, , .		8

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55	Modern Pollen Assemblages From Lake Sediments and Soil in East Siberia and Relative Pollen Productivity Estimates for Major Taxa. Frontiers in Ecology and Evolution, 0, 10, .	2.2	3