Birgit Heim

List of Publications by Year
in descending order

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55 papers	1,718 citations	218381 26 h-index	315357 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.	0.8	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.	2.2	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.	3.7	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.	1.3	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.	1.3	7
6	First pan-Arctic assessment of dissolved organic carbon in lakes of the permafrost region. Biogeosciences, 2021, 18, 3917-3936.	1.3	12
7	The Arctic Nearshore Turbidity Algorithm (ANTA) - A multi sensor turbidity algorithm for Arctic nearshore environments. Science of Remote Sensing, 2021, 4, 100036.	2.2	6
8	Identifying Drivers of Seasonality in Lena River Biogeochemistry and Dissolved Organic Matter Fluxes. Frontiers in Environmental Science, 2020, 8, .	1.5	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.	4.6	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.	2.2	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.	1.3	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.	1.5	29
13	Assessing the Influence of Water Constituents on the Radiative Heating of Laptev Sea Shelf Waters. Frontiers in Marine Science, 2019, 6, .	1.2	14
14	Comparisons of dissolved organic matter and its optical characteristics in small low and high Arctic catchments. Biogeosciences, 2019, 16, 4535-4553.	1.3	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.	1.8	21
16	Ocean Colour Remote Sensing in the Laptev Sea. , 2019, , 123-138.		1
17	Correction to â€œA Statistical Test of Phase Closure to Detect Influences on DInSAR Deformation Estimates Besides Displacements and Decorrelation Noise: Two Case Studies in High-Latitude Regionsâ€• [Sep 16 5588-5601]. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 623-623.	2.7	1
18	Monitoring pigmentâ€driven vegetation changes in a lowâ€Arctic tundra ecosystem using digital cameras. Ecosphere, 2018, 9, e02123.	1.0	11

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19	Evaluation of a MetOp ASCAT-Derived Surface Soil Moisture Product in Tundra Environments. Journal of Geophysical Research F: Earth Surface, 2018, 123, 3190-3205.	1.0	5
20	Assessing the dynamics of vegetation productivity in circumpolar regions with different satellite indicators of greenness and photosynthesis. Biogeosciences, 2018, 15, 6221-6256.	1.3	28
21	TerraSAR-X Time Series Fill a Gap in Spaceborne Snowmelt Monitoring of Small Arctic Catchmentsâ€"A Case Study on Qikiqtaruk (Herschel Island), Canada. Remote Sensing, 2018, 10, 1155.	1.8	10
22	Circumpolar Arctic Vegetation Classification. Phytocoenologia, 2018, 48, 181-201.	1.2	40
23	Monitoring Inter- and Intra-Seasonal Dynamics of Rapidly Degrading Ice-Rich Permafrost Riverbanks in the Lena Delta with TerraSAR-X Time Series. Remote Sensing, 2018, 10, 51.	1.8	28
24	Terrestrial CDOM in Lakes of Yamal Peninsula: Connection to Lake and Lake Catchment Properties. Remote Sensing, 2018, 10, 167.	1.8	14
25	Thaw Subsidence of a Yedoma Landscape in Northern Siberia, Measured In Situ and Estimated from TerraSAR-X Interferometry. Remote Sensing, 2018, 10, 494.	1.8	69
26	Effect of Terrain Characteristics on Soil Organic Carbon and Total Nitrogen Stocks in Soils of Herschel Island, Western Canadian Arctic. Permafrost and Periglacial Processes, 2017, 28, 92-107.	1.5	46
27	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. Remote Sensing, 2017, 9, 1052.	1.8	88
28	A Phenological Approach to Spectral Differentiation of Low-Arctic Tundra Vegetation Communities, North Slope, Alaska. Remote Sensing, 2017, 9, 1200.	1.8	14
29	Monitoring of Calcite Precipitation in Hardwater Lakes with Multi-Spectral Remote Sensing Archives. Water (Switzerland), 2017, 9, 15.	1.2	9
30	In Situ and Satellite Observation of CDOM and Chlorophyll-a Dynamics in Small Water Surface Reservoirs in the Brazilian Semiarid Region. Water (Switzerland), 2017, 9, 913.	1.2	22
31	Monitoring Bedfast Ice and Ice Phenology in Lakes of the Lena River Delta Using TerraSAR-X Backscatter and Coherence Time Series. Remote Sensing, 2016, 8, 903.	1.8	32
32	Landscape controls and vertical variability of soil organic carbon storage in permafrost-affected soils of the Lena River Delta. Catena, 2016, 147, 725-741.	2.2	46
33	Spatio-temporal variability of X-band radar backscatter and coherence over the Lena River Delta, Siberia. Remote Sensing of Environment, 2016, 182, 169-191.	4.6	30
34	A Statistical Test of Phase Closure to Detect Influences on <roman>DInSAR</roman> Deformation Estimates Besides Displacements and Decorrelation Noise: Two Case Studies in High-Latitude Regions. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5588-5601.	2.7	52
35	Satellite-derived changes in the permafrost landscape of central Yakutia, 2000â€"2011: Wetting, drying, and fires. Global and Planetary Change, 2016, 139, 116-127.	1.6	69
36	Sea-level evolution of the Laptev Sea and the East Siberian Sea since the last glacial maximum. Arktos, 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. Frontiers in Marine Science, 2015, 2, .	1.2	77
38	Lena Delta hydrology and geochemistry: long-term hydrological data and recent field observations. Biogeosciences, 2015, 12, 345-363.	1.3	69
39	A novel approach for the characterization of tundra wetland regions with C-band SAR satellite data. International Journal of Remote Sensing, 2015, 36, 5537-5556.	1.3	32
40	Ocean colour remote sensing in the southern Laptev Sea: evaluation and applications. Biogeosciences, 2014, 11, 4191-4210.	1.3	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. Advances in Meteorology, 2014, 2014, 1-15.	0.6	16
42	Preferential burial of permafrostâ€derived organic carbon in <scp>S</scp>iberianâ€<scp>A</scp>rctic shelf waters. Journal of Geophysical Research: Oceans, 2014, 119, 8410-8421.	1.0	71
43	A pollen-climate transfer function from the tundra and taiga vegetation in Arctic Siberia and its applicability to a Holocene record. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 386, 702-713.	1.0	61
44	A Manual Transportable Instrument Platform for Ground-Based Spectro-Directional Observations (ManTIS) and the Resultant Hyperspectral Field Goniometer System. Sensors, 2013, 13, 16105-16128.	2.1	13
45	Interannual variability of surface and bottom sediment transport on the Laptev Sea shelf during summer. Biogeosciences, 2013, 10, 1117-1129.	1.3	29
46	Ground-Based Hyperspectral Characterization of Alaska Tundra Vegetation along Environmental Gradients. Remote Sensing, 2013, 5, 3971-4005.	1.8	36
47	Water Body Distributions Across Scales: A Remote Sensing Based Comparison of Three Arctic Tundra Wetlands. Remote Sensing, 2013, 5, 1498-1523.	1.8	103
48	Phytoplankton community structure in the Lena Delta (Siberia, Russia) in relation to hydrography. Biogeosciences, 2013, 10, 7263-7277.	1.3	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 /Overlock 1	0.8	4
51	Mineralogical signatures of Lake Baikal sediments: Sources of sediment supplies through Late Quaternary. Sedimentary Geology, 2007, 194, 37-59.	1.0	36
52	Variation in Lake Baikal's phytoplankton distribution and fluvial input assessed by SeaWiFS satellite data. Global and Planetary Change, 2005, 46, 9-27.	1.6	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, .	1.1	3