

Murray C Richardson

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,249
citations

430874

18
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

1881
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Importance of Training Data Sample Selection in Random Forest Image Classification: A Case Study in Peatland Ecosystem Mapping. <i>Remote Sensing</i> , 2015, 7, 8489-8515.	4.0	398
2	Wetland mapping with LiDAR derivatives, SAR polarimetric decompositions, and LiDAR-SAR fusion using a random forest classifier. <i>Canadian Journal of Remote Sensing</i> , 2013, 39, 290-307.	2.4	107
3	A Systematic Approach for Variable Selection With Random Forests: Achieving Stable Variable Importance Values. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 1988-1992.	3.1	80
4	The impacts of environmental variables on water reflectance measured using a lightweight unmanned aerial vehicle (UAV)-based spectrometer system. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 130, 217-230.	11.1	70
5	Seasonal variation of arsenic and antimony in surface waters of small subarctic lakes impacted by legacy mining pollution near Yellowknife, NT, Canada. <i>Science of the Total Environment</i> , 2019, 684, 326-339.	8.0	53
6	Water storage dynamics and runoff response of a boreal Shield headwater catchment. <i>Hydrological Processes</i> , 2011, 25, 3042-3060.	2.6	46
7	Quantifying the relative contributions of vegetation and soil moisture conditions to polarimetric C-Band SAR response in a temperate peatland. <i>Remote Sensing of Environment</i> , 2018, 206, 123-138.	11.0	46
8	The role of terrestrial vegetation in atmospheric Hg deposition: Pools and fluxes of spike and ambient Hg from the METAALICUS experiment. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	45
9	Moving to the RADARSAT Constellation Mission: Comparing Synthesized Compact Polarimetry and Dual Polarimetry Data with Fully Polarimetric RADARSAT-2 Data for Image Classification of Peatlands. <i>Remote Sensing</i> , 2017, 9, 573.	4.0	41
10	Analysis of airborne LiDAR surveys to quantify the characteristic morphologies of northern forested wetlands. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	29
11	Fusion of Multispectral Imagery and Spectrometer Data in UAV Remote Sensing. <i>Remote Sensing</i> , 2017, 9, 696.	4.0	28
12	Ratio of Methylmercury to Dissolved Organic Carbon in Water Explains Methylmercury Bioaccumulation Across a Latitudinal Gradient from North-Temperate to Arctic Lakes. <i>Environmental Science & Technology</i> , 2018, 52, 79-88.	10.0	28
13	The role of wetland coverage within the near-stream zone in predicting of seasonal stream export chemistry from forested headwater catchments. <i>Hydrological Processes</i> , 2019, 33, 1465-1475.	2.6	27
14	Environmental Drivers of Rare Earth Element Bioaccumulation in Freshwater Zooplankton. <i>Environmental Science & Technology</i> , 2019, 53, 1650-1660.	10.0	26
15	Hydrogeomorphic edge detection and delineation of landscape functional units from lidar digital elevation models. <i>Water Resources Research</i> , 2009, 45, .	4.2	25
16	Empirical assessment of effects of urbanization on event flow hydrology in watersheds of Canada's Great Lakes-St Lawrence basin. <i>Journal of Hydrology</i> , 2016, 541, 1456-1474.	5.4	21
17	Random forests as cumulative effects models: A case study of lakes and rivers in Muskoka, Canada. <i>Journal of Environmental Management</i> , 2017, 201, 407-424.	7.8	21
18	Assessing the Potential to Operationalize Shoreline Sensitivity Mapping: Classifying Multiple Wide Fine Quadrature Polarized RADARSAT-2 and Landsat 5 Scenes with a Single Random Forest Model. <i>Remote Sensing</i> , 2015, 7, 13528-13563.	4.0	20

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19	The influences of catchment geomorphology and scale on runoff generation in a northern peatland complex. <i>Hydrological Processes</i> , 2012, 26, 1805-1817.	2.6	18
20	Hydrologic control on winter dissolved oxygen mediates arsenic cycling in a small subarctic lake. <i>Limnology and Oceanography</i> , 2021, 66, S30.	3.1	18
21	Contributions of streamflow variability, concentration–discharge shifts and forested wetlands to terrestrial–aquatic solute export in Precambrian Shield headwater catchments. <i>Ecohydrology</i> , 2012, 5, 596-612.	2.4	16
22	Mineralogical, geospatial, and statistical methods combined to estimate geochemical background of arsenic in soils for an area impacted by legacy mining pollution. <i>Science of the Total Environment</i> , 2021, 776, 145926.	8.0	16
23	Wetlands and low–gradient topography are associated with longer hydrologic transit times in Precambrian Shield headwater catchments. <i>Hydrological Processes</i> , 2020, 34, 598-614.	2.6	15
24	Soil Moisture Monitoring in a Temperate Peatland Using Multi-Sensor Remote Sensing and Linear Mixed Effects. <i>Remote Sensing</i> , 2018, 10, 903.	4.0	11
25	Diet influences on growth and mercury concentrations of two salmonid species from lakes in the eastern Canadian Arctic. <i>Environmental Pollution</i> , 2021, 268, 115820.	7.5	10
26	Mercury concentrations and associations with dissolved organic matter are modified by water residence time in eastern Canadian lakes along a 30° latitudinal gradient. <i>Limnology and Oceanography</i> , 2021, 66, S64.	3.1	10
27	Change in event-scale hydrologic response in two urbanizing watersheds of the Great Lakes St Lawrence Basin 1969–2010. <i>Journal of Hydrology</i> , 2015, 527, 1174-1188.	5.4	9
28	Delineation of peatland lagg boundaries from airborne LiDAR. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2191-2205.	3.0	9
29	Areal differentiation of snow accumulation and melt between peatland types in the James Bay Lowland. <i>Hydrological Processes</i> , 2012, 26, 2663-2671.	2.6	6
30	The influence of hyporheic exchange on reach-scale water budgets in a Precambrian Shield catchment, Quebec, Canada. <i>Hydrological Processes</i> , 2013, 27, 1890-1900.	2.6	0