

Fan-Rui Meng

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

659
citations

16
h-index

25
g-index

40
ext. papers

759
ext. citations

3.7
avg, IF

3.74
L-index

#	Paper	IF	Citations
40	Stream network modelling using lidar and photogrammetric digital elevation models: a comparison and field verification. <i>Hydrological Processes</i> , 2008 , 22, 1747-1754	3.3	92
39	Water input from fog drip in the tropical seasonal rain forest of Xishuangbanna, South-West China. <i>Journal of Tropical Ecology</i> , 2004 , 20, 517-524	1.3	68
38	A Wetness Index Using Terrain-Corrected Surface Temperature and Normalized Difference Vegetation Index Derived from Standard MODIS Products: An Evaluation of Its Use in a Humid Forest-Dominated Region of Eastern Canada. <i>Sensors</i> , 2007 , 7, 2028-2048	3.8	55
37	Spatial extent of winter thaw events in eastern North America: historical weather records in relation to yellow birch decline. <i>Global Change Biology</i> , 2005 , 11, 1477-1492	11.4	53
36	Model prediction of biome-specific global soil respiration from 1960 to 2012. <i>Earth's Future</i> , 2017 , 5, 715-729	7.9	42
35	A Novel Modelling Approach for Predicting Forest Growth and Yield under Climate Change. <i>PLoS ONE</i> , 2015 , 10, e0132066	3.7	30
34	Integrating biophysical controls in forest growth and yield predictions with artificial intelligence technology. <i>Canadian Journal of Forest Research</i> , 2013 , 43, 1162-1171	1.9	25
33	Genome editing in potato plants by agrobacterium-mediated transient expression of transcription activator-like effector nucleases. <i>Plant Biotechnology Reports</i> , 2017 , 11, 249-258	2.5	24
32	Impacts of Accuracy and Resolution of Conventional and LiDAR Based DEMs on Parameters Used in Hydrologic Modeling. <i>Water Resources Management</i> , 2010 , 24, 1363-1380	3.7	23
31	Characterizing the impacts of land use on nitrate load and water yield in an agricultural watershed in Atlantic Canada. <i>Science of the Total Environment</i> , 2020 , 729, 138793	10.2	23
30	Using GIS and a digital elevation model to assess the effectiveness of variable grade flow diversion terraces in reducing soil erosion in northwestern New Brunswick, Canada. <i>Hydrological Processes</i> , 2009 , 23, 3271-3280	3.3	22
29	SWAT Setup with Long-Term Detailed Landuse and Management Records and Modification for a Micro-Watershed Influenced by Freeze-Thaw Cycles. <i>Water Resources Management</i> , 2017 , 31, 3953-3974	3.7	21
28	Assessing an Enhanced Version of SWAT on Water Quantity and Quality Simulation in Regions with Seasonal Snow Cover. <i>Water Resources Management</i> , 2016 , 30, 5021-5037	3.7	21
27	Validating Evapotranspiration Equations Using Bowen Ratio in New Brunswick, Maritime, Canada. <i>Sensors</i> , 2008 , 8, 412-428	3.8	20
26	Model prediction of soil drainage classes over a large area using a limited number of field samples: A case study in the province of Nova Scotia, Canada. <i>Canadian Journal of Soil Science</i> , 2013 , 93, 73-83	1.4	17
25	Optimizing carbon sequestration in commercial forests by integrating carbon management objectives in wood supply modeling. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2007 , 12, 1253-1275	3.9	17
24	GIS-evaluation of two slope-calculation methods regarding their suitability in slope analysis using high-precision LiDAR digital elevation models. <i>Hydrological Processes</i> , 2012 , 26, 1119-1133	3.3	13

23	Estimation of potential impacts of climate change on growth and yield of temperate tree species. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015 , 20, 159-178	3.9	12
22	Combining carbon sequestration objectives with timber management planning. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2003 , 8, 371-403	3.9	11
21	Optimal on- and off-site forest carbon sequestration under existing timber supply constraints in northern New Brunswick. <i>Canadian Journal of Forest Research</i> , 2008 , 38, 2784-2796	1.9	10
20	Induced Activity of Superoxide Dismutase and Peroxidase of in vitro Plants by Low Concentrations of Ethanol. <i>Plant Cell, Tissue and Organ Culture</i> , 2004 , 79, 83-86	2.7	9
19	Modelling hydrological conditions in the maritime forest region of south-western Nova Scotia. <i>Hydrological Processes</i> , 2000 , 14, 195-214	3.3	7
18	Prediction of soil nutrient regime based on a model of DEM-generated clay content for the province of Nova Scotia, Canada. <i>Canadian Journal of Soil Science</i> , 2013 , 93, 193-203	1.4	5
17	Assessing impact of projected future climate on tree species growth and yield: development of an evaluation strategy. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2010 , 15, 307-320	3.9	5
16	Evaluating Critical Soil Acidification Loads and Exceedances for a Deciduous Forest at the Turkey Lakes Watershed. <i>Ecosystems</i> , 2001 , 4, 555-567	3.9	5
15	Stand dynamics and tree quality response to precommercial thinning in a northern hardwood forest of the Acadian forest region: 23 years of intermediate results. <i>Scandinavian Journal of Forest Research</i> , 2017 , 32, 45-59	1.7	4
14	Evaluation of the suitability of six drought indices in naturally growing, transitional vegetation zones in Inner Mongolia (China). <i>PLoS ONE</i> , 2020 , 15, e0233525	3.7	4
13	A stand dynamic model for red pine plantations with different initial densities. <i>New Forests</i> , 2011 , 41, 41-53	2.6	4
12	Incorporating interspecific competition into species-distribution mapping by upward scaling of small-scale model projections to the landscape. <i>PLoS ONE</i> , 2017 , 12, e0171487	3.7	3
11	Assessing the Accuracy and Feasibility of Using Close-Range Photogrammetry to Measure Channelized Erosion with a Consumer-Grade Camera. <i>Remote Sensing</i> , 2020 , 12, 1706	5	2
10	Production of high-resolution forest-ecosite maps based on model predictions of soil moisture and nutrient regimes over a large forested area. <i>Scientific Reports</i> , 2017 , 7, 10998	4.9	2
9	Improved Accuracy of Riparian Zone Mapping Using Near Ground Unmanned Aerial Vehicle and Photogrammetry Method. <i>Remote Sensing</i> , 2021 , 13, 1997	5	2
8	Projecting In-stream Dissolved Organic Carbon and Total Mercury Concentrations in Small Watersheds Following Forest Growth and Clearcutting. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	2
7	Photosynthetic parameters and stomatal conductance in attached and detached balsam fir foliage. <i>Plant-Environment Interactions</i> , 2021 , 2, 206-215	1.4	2
6	Yield responses of four common potato cultivars to an industry standard and alternative rotation in Atlantic Canada. <i>American Journal of Potato Research</i> , 2021 , 1	2.1	2

5	Hydrological Evaluation of Flow Diversion Terraces Using Downhill-Slope Calculation Method for High Resolution and Accuracy DEMs. <i>Sustainability</i> , 2018 , 10, 2414	3.6	1
4	Using Unmanned Aerial Vehicle and LiDAR-Derived DEMs to Estimate Channels of Small Tributary Streams. <i>Remote Sensing</i> , 2021 , 13, 3380	5	1
3	Conditional inference trees in the assessment of tree mortality rates in the transitional mixed forests of Atlantic Canada. <i>PLoS ONE</i> , 2021 , 16, e0250991	3.7	0
2	How do soil and water conservation practices influence climate change impacts on potato production? Evidence from eastern Canada. <i>Regional Environmental Change</i> , 2014 , 14, 1563-1574	4.3	
1	Mixed Regional Shifts in Conifer Productivity under 21st-Century Climate Projections in Canada's Northeastern Boreal Forest. <i>Forests</i> , 2021 , 12, 248	2.8	