Fan-Rui Meng

List of Publications by Year in Descending Order

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	Improved Accuracy of Riparian Zone Mapping Using Near Ground Unmanned Aerial Vehicle and Photogrammetry Method. *Remote Sensing*, **2021**, 13, 1997	5	2
39	Conditional inference trees in the assessment of tree mortality rates in the transitional mixed forests of Atlantic Canada. *PLoS ONE*, **2021**, 16, e0250991	3.7	0
38	Mixed Regional Shifts in Conifer Productivity under 21st-Century Climate Projections in Canada's Northeastern Boreal Forest. *Forests*, **2021**, 12, 248	2.8	
37	Using Unmanned Aerial Vehicle and LiDAR-Derived DEMs to Estimate Channels of Small Tributary Streams. *Remote Sensing*, **2021**, 13, 3380	5	1
36	Photosynthetic parameters and stomatal conductance in attached and detached balsam fir foliage. *Plant-Environment Interactions*, **2021**, 2, 206-215	1.4	2
35	Evaluation of the suitability of six drought indices in naturally growing, transitional vegetation zones in Inner Mongolia (China). *PLoS ONE*, **2020**, 15, e0233525	3.7	4
34	Assessing the Accuracy and Feasibility of Using Close-Range Photogrammetry to Measure Channelized Erosion with a Consumer-Grade Camera. *Remote Sensing*, **2020**, 12, 1706	5	2
33	Characterizing the impacts of land use on nitrate load and water yield in an agricultural watershed in Atlantic Canada. *Science of the Total Environment*, **2020**, 729, 138793	10.2	23
32	Hydrological Evaluation of Flow Diversion Terraces Using Downhill-Slope Calculation Method for High Resolution and Accuracy DEMs. *Sustainability*, **2018**, 10, 2414	3.6	1
31	Stand dynamics and tree quality response to precommercial thinning in a northern hardwood forest of the Acadian forest region: 23 years of intermediate results. *Scandinavian Journal of Forest Research*, **2017**, 32, 45-59	1.7	4
30	Model prediction of biome-specific global soil respiration from 1960 to 2012. *Earth's Future*, **2017**, 5, 715-729	7.9	42
29	Genome editing in potato plants by agrobacterium-mediated transient expression of transcription activator-like effector nucleases. *Plant Biotechnology Reports*, **2017**, 11, 249-258	2.5	24
28	Production of high-resolution forest-ecosite maps based on model predictions of soil moisture and nutrient regimes over a large forested area. *Scientific Reports*, **2017**, 7, 10998	4.9	2
27	SWAT Setup with Long-Term Detailed Landuse and Management Records and Modification for a Micro-Watershed Influenced by Freeze-Thaw Cycles. *Water Resources Management*, **2017**, 31, 3953-3974	3.7	21
26	Incorporating interspecific competition into species-distribution mapping by upward scaling of small-scale model projections to the landscape. *PLoS ONE*, **2017**, 12, e0171487	3.7	3
25	Assessing an Enhanced Version of SWAT on Water Quantity and Quality Simulation in Regions with Seasonal Snow Cover. *Water Resources Management*, **2016**, 30, 5021-5037	3.7	21
24	Projecting In-stream Dissolved Organic Carbon and Total Mercury Concentrations in Small Watersheds Following Forest Growth and Clearcutting. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	2

23	Estimation of potential impacts of climate change on growth and yield of temperate tree species. *Mitigation and Adaptation Strategies for Global Change*, **2015**, 20, 159-178	3.9	12
22	A Novel Modelling Approach for Predicting Forest Growth and Yield under Climate Change. *PLoS ONE*, **2015**, 10, e0132066	3.7	30
21	How do soil and water conservation practices influence climate change impacts on potato production? Evidence from eastern Canada. *Regional Environmental Change*, **2014**, 14, 1563-1574	4.3	
20	Integrating biophysical controls in forest growth and yield predictions with artificial intelligence technology. *Canadian Journal of Forest Research*, **2013**, 43, 1162-1171	1.9	25
19	Prediction of soil nutrient regime based on a model of DEM-generated clay content for the province of Nova Scotia, Canada. *Canadian Journal of Soil Science*, **2013**, 93, 193-203	1.4	5
18	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. *Canadian Journal of Soil Science*, **2013**, 93, 73-83	1.4	17
17	GIS-evaluation of two slope-calculation methods regarding their suitability in slope analysis using high-precision LiDAR digital elevation models. *Hydrological Processes*, **2012**, 26, 1119-1133	3.3	13
16	A stand dynamic model for red pine plantations with different initial densities. *New Forests*, **2011**, 41, 41-53	2.6	4
15	Assessing impact of projected future climate on tree species growth and yield: development of an evaluation strategy. *Mitigation and Adaptation Strategies for Global Change*, **2010**, 15, 307-320	3.9	5
14	Impacts of Accuracy and Resolution of Conventional and LiDAR Based DEMs on Parameters Used in Hydrologic Modeling. *Water Resources Management*, **2010**, 24, 1363-1380	3.7	23
13	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. *Hydrological Processes*, **2009**, 23, 3271-3280	3.3	22
12	Optimal on- and off-site forest carbon sequestration under existing timber supply constraints in northern New Brunswick. *Canadian Journal of Forest Research*, **2008**, 38, 2784-2796	1.9	10
11	Validating Evapotranspiraiton Equations Using Bowen Ratio in New Brunswick, Maritime, Canada. *Sensors*, **2008**, 8, 412-428	3.8	20
10	Stream network modelling using lidar and photogrammetric digital elevation models: a comparison and field verification. *Hydrological Processes*, **2008**, 22, 1747-1754	3.3	92
9	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. *Sensors*, **2007**, 7, 2028-2048	3.8	55
8	Optimizing carbon sequestration in commercial forests by integrating carbon management objectives in wood supply modeling. *Mitigation and Adaptation Strategies for Global Change*, **2007**, 12, 1253-1275	3.9	17
7	Spatial extent of winter thaw events in eastern North America: historical weather records in relation to yellow birch decline. *Global Change Biology*, **2005**, 11, 1477-1492	11.4	53
6	Induced Activity of Superoxide Dismutase and Peroxidase of in vitro Plants by Low Concentrations of Ethanol. *Plant Cell, Tissue and Organ Culture*, **2004**, 79, 83-86	2.7	9

5	Water input from fog drip in the tropical seasonal rain forest of Xishuangbanna, South-West China. *Journal of Tropical Ecology*, **2004**, 20, 517-524	1.3	68
4	Combining carbon sequestration objectives with timber management planning. *Mitigation and Adaptation Strategies for Global Change*, **2003**, 8, 371-403	3.9	11
3	Evaluating Critical Soil Acidification Loads and Exceedances for a Deciduous Forest at the Turkey Lakes Watershed. *Ecosystems*, **2001**, 4, 555-567	3.9	5
2	Modelling hydrological conditions in the maritime forest region of south-western Nova Scotia. *Hydrological Processes*, **2000**, 14, 195-214	3.3	7
1	Yield responses of four common potato cultivars to an industry standard and alternative rotation in Atlantic Canada. *American Journal of Potato Research*,1	2.1	2