

Xiaohua Wei

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105
papers

3,087
citations

29
h-index

53
g-index

124
ext. papers

3,721
ext. citations

4.6
avg, IF

5.25
L-index

#	Paper	IF	Citations
105	Potential water yield reduction due to forestation across China. <i>Journal of Hydrology</i> , 2006 , 328, 548-558		311
104	A global review on hydrological responses to forest change across multiple spatial scales: Importance of scale, climate, forest type and hydrological regime. <i>Journal of Hydrology</i> , 2017 , 546, 44-59 ⁶		173
103	Global pattern for the effect of climate and land cover on water yield. <i>Nature Communications</i> , 2015 , 6, 5918	17.4	155
102	Quantifying the hydrological responses to climate change in an intact forested small watershed in Southern China. <i>Global Change Biology</i> , 2011 , 17, 3736-3746	11.4	154
101	Quantifying streamflow change caused by forest disturbance at a large spatial scale: A single watershed study. <i>Water Resources Research</i> , 2010 , 46,	5.4	108
100	The effect of forest harvesting and climatic variability on runoff in a large watershed: The case study in the Upper Minjiang River of Yangtze River basin. <i>Journal of Hydrology</i> , 2012 , 464-465, 1-11	6	93
99	Forest recovery and river discharge at the regional scale of Guangdong Province, China. <i>Water Resources Research</i> , 2010 , 46,	5.4	88
98	Litterfall Production Along Successional and Altitudinal Gradients of Subtropical Monsoon Evergreen Broadleaved Forests in Guangdong, China. <i>Plant Ecology</i> , 2006 , 188, 77-89	1.7	85
97	Factors influencing leaf litter decomposition: an intersite decomposition experiment across China. <i>Plant and Soil</i> , 2008 , 311, 61-72	4.2	84
96	Forest ecohydrological research in the 21st century: what are the critical needs?. <i>Ecohydrology</i> , 2011 , 4, 146-158	2.5	77
95	Annual runoff and evapotranspiration of forestlands and non-forestlands in selected basins of the Loess Plateau of China. <i>Ecohydrology</i> , 2011 , 4, 277-287	2.5	77
94	Greening China naturally. <i>Ambio</i> , 2011 , 40, 828-31	6.5	70
93	The impact of large-scale forest harvesting on hydrology in the Willow watershed of Central British Columbia. <i>Journal of Hydrology</i> , 2008 , 359, 141-149	6	63
92	Relationship between vegetation carbon storage and urbanization: A case study of Xiamen, China. <i>Forest Ecology and Management</i> , 2011 , 261, 1214-1223	3.9	62
91	Quantifying the Relative Contributions of Forest Change and Climatic Variability to Hydrology in Large Watersheds: A Critical Review of Research Methods. <i>Water (Switzerland)</i> , 2013 , 5, 728-746	3	61
90	Evaluating the effects of future climate change and elevated CO2 on the water use efficiency in terrestrial ecosystems of China. <i>Ecological Modelling</i> , 2011 , 222, 2414-2429	3	58
89	The Forest-Streamflow Relationship in China: A 40-Year Retrospect ¹ . <i>Journal of the American Water Resources Association</i> , 2008 , 44, 1076-1085	2.1	55

88	Effects of nitrogen deposition on carbon sequestration in Chinese fir forest ecosystems. <i>Science of the Total Environment</i> , 2012 , 416, 351-61	10.2	54
87	Impacts of eucalyptus (<i>Eucalyptus exserta</i>) plantation on sediment yield in Guangdong Province, Southern China—kinetic energy approach. <i>Catena</i> , 2002 , 49, 231-251	5.8	52
86	Vegetation cover—another dominant factor in determining global water resources in forested regions. <i>Global Change Biology</i> , 2018 , 24, 786-795	11.4	50
85	Forest cover change and water yield in large forested watersheds: A global synthetic assessment. <i>Ecohydrology</i> , 2017 , 10, e1838	2.5	43
84	How do climate and forest changes affect long-term streamflow dynamics? A case study in the upper reach of Poyang River basin. <i>Ecohydrology</i> , 2015 , 8, 46-57	2.5	40
83	Effects of rapid urban sprawl on urban forest carbon stocks: integrating remotely sensed, GIS and forest inventory data. <i>Journal of Environmental Management</i> , 2012 , 113, 447-55	7.9	39
82	Potential for forest vegetation carbon storage in Fujian Province, China, determined from forest inventories. <i>Plant and Soil</i> , 2011 , 345, 125-140	4.2	39
81	Impacts of a large-scale reforestation program on carbon storage dynamics in Guangdong, China. <i>Forest Ecology and Management</i> , 2008 , 255, 847-854	3.9	39
80	Geographical modeling of spatial interaction between human activity and forest connectivity in an urban landscape of southeast China. <i>Landscape Ecology</i> , 2014 , 29, 1741-1758	4.3	38
79	Influence of wildfire and harvest on biomass, carbon pool, and decomposition of large woody debris in forested streams of southern interior British Columbia. <i>Forest Ecology and Management</i> , 2005 , 208, 101-114	3.9	33
78	An approach for assessing impact of land use and biophysical conditions across landscape on recharge rate and nitrogen loading of groundwater. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 196, 114-124	5.7	31
77	The cumulative effects of forest disturbance and climate variability on streamflow components in a large forest-dominated watershed. <i>Journal of Hydrology</i> , 2018 , 557, 448-459	6	29
76	Effect of forest recovery on summer streamflow in small forested watersheds, Northeastern China. <i>Hydrological Processes</i> , 2012 , 26, 1208-1214	3.3	29
75	The long-term effects of reforestation on soil microbial biomass carbon in sub-tropic severe red soil degradation areas. <i>Forest Ecology and Management</i> , 2012 , 285, 77-84	3.9	29
74	Soil N/P and C/P ratio regulate the responses of soil microbial community composition and enzyme activities in a long-term nitrogen loaded Chinese fir forest. <i>Plant and Soil</i> , 2019 , 436, 91-107	4.2	29
73	Response of flow regimes to deforestation and reforestation in a rain-dominated large watershed of subtropical China. <i>Hydrological Processes</i> , 2015 , 29, 5003-5015	3.3	28
72	A watershed scale assessment of in-stream large woody debris patterns in the southern interior of British Columbia. <i>Forest Ecology and Management</i> , 2006 , 229, 50-62	3.9	28
71	Wood dynamics in upland streams under different disturbance regimes. <i>Earth Surface Processes and Landforms</i> , 2013 , 38, 1197-1209	3.7	27

70	Evaluation of the effects of forest management strategies on carbon sequestration in evergreen broad-leaved (<i>Phoebe bournei</i>) plantation forests using FORECAST ecosystem model. <i>Forest Ecology and Management</i> , 2013 , 300, 21-32	3.9	26
69	Long-term nitrogen addition changes soil microbial community and litter decomposition rate in a subtropical forest. <i>Applied Soil Ecology</i> , 2019 , 142, 43-51	5	23
68	Climate change, glacier melting and streamflow in the Niyang River Basin, Southeast Tibet, China. <i>Ecohydrology</i> , 2011 , 4, 288-298	2.5	23
67	Sub-tropic degraded red soil restoration: Is soil organic carbon build-up limited by nutrients supply. <i>Forest Ecology and Management</i> , 2013 , 300, 77-87	3.9	22
66	Effects of forest type, stand age, and altitude on soil respiration in subtropical forests of China. <i>Scandinavian Journal of Forest Research</i> , 2011 , 26, 40-47	1.7	22
65	Impacts of enhanced nitrogen deposition and soil acidification on biomass production and nitrogen leaching in Chinese fir plantations. <i>Canadian Journal of Forest Research</i> , 2012 , 42, 437-450	1.9	22
64	Linking landscape patterns with ecological functions: A case study examining the interaction between landscape heterogeneity and carbon stock of urban forests in Xiamen, China. <i>Forest Ecology and Management</i> , 2013 , 293, 122-131	3.9	21
63	Significant increase in ecosystem C can be achieved with sustainable forest management in subtropical plantation forests. <i>PLoS ONE</i> , 2014 , 9, e89688	3.7	21
62	Effects of large woody debris on surface structure and aquatic habitat in forested streams, southern interior British Columbia, Canada. <i>River Research and Applications</i> , 2008 , 24, 862-875	2.3	21
61	Smith fir population structure and dynamics in the timberline ecotone of the Sejila Mountain, Tibet, China. <i>Acta Ecologica Sinica</i> , 2007 , 27, 2669-2677	2.7	20
60	Hydrological recovery in two large forested watersheds of southeastern China: the importance of watershed properties in determining hydrological responses to reforestation. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 4747-4756	5.5	20
59	Effects of future climate change, CO ₂ enrichment, and vegetation structure variation on hydrological processes in China. <i>Global and Planetary Change</i> , 2012 , 80-81, 123-135	4.2	19
58	Topography significantly influencing low flows in snow-dominated watersheds. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 1947-1956	5.5	19
57	Contrasted hydrological responses to forest harvesting in two large neighbouring watersheds in snow hydrology dominant environment: implications for forest management and future forest hydrology studies. <i>Hydrological Processes</i> , 2014 , 28, 6183-6195	3.3	18
56	Restoring ecosystem carbon sequestration through afforestation: A sub-tropic restoration case study. <i>Forest Ecology and Management</i> , 2013 , 300, 60-67	3.9	18
55	Potential Impact of Afforestation on Water Yield in the Subalpine Region of Southwestern China ¹ . <i>Journal of the American Water Resources Association</i> , 2008 , 44, 1144-1153	2.1	18
54	Alteration of flow regimes caused by large-scale forest disturbance: a case study from a large watershed in the interior of British Columbia, Canada. <i>Ecohydrology</i> , 2014 , 7, 544-556	2.5	17
53	Effects of enriched planting of native tree species on surface water flow, sediment, and nutrient losses in a Eucalyptus plantation forest in southern China. <i>Science of the Total Environment</i> , 2019 , 675, 224-234	10.2	16

52	Deforestation, forestation, and water supply. <i>Science</i> , 2021 , 371, 990-991	33.3	16
51	Modelling spatial association in pattern based land use simulation models. <i>Journal of Environmental Management</i> , 2016 , 181, 465-476	7.9	15
50	Tree profile equations are significantly improved when adding tree age and stocking degree: an example for <i>Larix gmelinii</i> in the Greater Khingan Mountains of Inner Mongolia, northeast China. <i>European Journal of Forest Research</i> , 2020 , 139, 443-458	2.7	13
49	Evaluating the spatiotemporal variations of water budget across China over 1951-2006 using IBIS model. <i>Hydrological Processes</i> , 2010 , 24, 429-445	3.3	13
48	An eco-efficiency-based urban sustainability assessment method and its application. <i>International Journal of Sustainable Development and World Ecology</i> , 2010 , 17, 356-361	3.8	12
47	Poyang Lake basin: a successful, large-scale integrated basin management model for developing countries. <i>Water Science and Technology</i> , 2011 , 63, 1899-905	2.2	11
46	Assessing the relations between aquatic habitat indicators and forest harvesting at watershed scale in the interior of British Columbia. <i>Forest Ecology and Management</i> , 2008 , 256, 152-160	3.9	11
45	A quantitative assessment on the response of flow regimes to cumulative forest disturbances in large snow-dominated watersheds in the interior of British Columbia, Canada. <i>Ecohydrology</i> , 2016 , 9, 843-859	2.5	11
44	Do the hydrological responses to forest disturbances in large watersheds vary along climatic gradients in the interior of British Columbia, Canada?. <i>Ecohydrology</i> , 2017 , 10, e1840	2.5	10
43	Temporally dependent effects of rainfall characteristics on inter- and intra-event branch-scale stemflow variability in two xerophytic shrubs. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 4077-4095	5.5	10
42	The Hydrological Impact of Extreme Weather-Induced Forest Disturbances in a Tropical Experimental Watershed in South China. <i>Forests</i> , 2018 , 9, 734	2.8	10
41	The Cumulative Effects of Forest Disturbance and Climate Variability on Streamflow in the Deadman River Watershed. <i>Forests</i> , 2019 , 10, 196	2.8	9
40	Aerial Seeding: An Effective Forest Restoration Method in Highly Degraded Forest Landscapes of Sub-Tropic Regions. <i>Forests</i> , 2015 , 6, 1748-1762	2.8	9
39	Forest ecohydrological processes in a changing environment. <i>Ecohydrology</i> , 2011 , 4, 143-145	2.5	9
38	Review of regional carbon counting methods for the Chinese major ecological engineering programs. <i>Journal of Forestry Research</i> , 2016 , 27, 727-738	2	8
37	Evapotranspiration in the Meso-Scale Forested Watersheds in Minjiang Valley, West China ¹ . <i>Journal of the American Water Resources Association</i> , 2008 , 44, 1154-1163	2.1	8
36	Disentangling critical drivers of stem CO ₂ efflux from <i>Pinus elliottii</i> trees in Subtropical China. <i>Agricultural and Forest Meteorology</i> , 2017 , 237-238, 296-302	5.8	6
35	Juvenile thinning can effectively mitigate the effects of drought on tree growth and water consumption in a young <i>Pinus contorta</i> stand in the interior of British Columbia, Canada. <i>Forest Ecology and Management</i> , 2019 , 454, 117667	3.9	6

34	Determining suitable selection cutting intensities based on long-term observations on aboveground forest carbon, growth, and stand structure in Changbai Mountain, Northeast China. <i>Scandinavian Journal of Forest Research</i> , 2014 , 29, 436-454	1.7	6
33	Organic matter loading affects lodgepole pine seedling growth. <i>Environmental Management</i> , 2012 , 49, 1143-9	3.1	6
32	Vegetation changes and water cycle in a changing environment. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 1731-1734	5.5	6
31	Determining annual cryosphere storage contributions to streamflow using historical hydrometric records. <i>Hydrological Processes</i> , 2017 , 31, 1590-1601	3.3	5
30	Contrasting Differences in Responses of Streamflow Regimes between Reforestation and Fruit Tree Planting in a Subtropical Watershed of China. <i>Forests</i> , 2019 , 10, 212	2.8	5
29	Correspondence: Reply to Space-time asymmetry undermines water yield assessment <i>Nature Communications</i> , 2016 , 7, 11604	17.4	5
28	Shaping forest management to climate change: An overview. <i>Forest Ecology and Management</i> , 2013 , 300, 1-3	3.9	5
27	Forest-Water Interactions Under Global Change. <i>Ecological Studies</i> , 2020 , 589-624	1.1	5
26	Research Methods for Assessing the Impacts of Forest Disturbance on Hydrology at Large-scale Watersheds 2011 , 119-147		5
25	Climatic influences on forest fire and mountain pine beetle outbreaks and resulting runoff effects in large watersheds in British Columbia, Canada. <i>Hydrological Processes</i> , 2020 , 34, 4560-4575	3.3	5
24	Disentangling the factors that contribute to variation in forest biomass increments in the mid-subtropical forests of China. <i>Journal of Forestry Research</i> , 2016 , 27, 919-930	2	4
23	Sustainable Management of <i>Metasequoia glyptostroboides</i> Plantation Forests in Shanghai. <i>Forests</i> , 2018 , 9, 64	2.8	4
22	An Ecologically Based System for Sustainable Agroforestry in Sub-Tropical and Tropical Forests. <i>Forests</i> , 2017 , 8, 102	2.8	4
21	Effects of Stand Origin and Near-Natural Restoration on the Stock and Structural Composition of Fallen Trees in Mid-Subtropical Forests. <i>Forests</i> , 2015 , 6, 4439-4450	2.8	4
20	Nature-based framework for sustainable afforestation in global drylands under changing climate.. <i>Global Change Biology</i> , 2021 ,	11.4	4
19	Individual size but not additional nitrogen regulates tree carbon sequestration in a subtropical forest. <i>Scientific Reports</i> , 2017 , 7, 46293	4.9	3
18	Linking forest harvest and landscape factors to benthic macroinvertebrate communities in the interior of British Columbia. <i>Hydrobiologia</i> , 2013 , 717, 65-84	2.4	3
17	2011 ,		3

16	Quantification of ecohydrological sensitivities and their influencing factors at the seasonal scale. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 1447-1466	5.5	3
15	Improved Regional Scale Dynamic Evapotranspiration Estimation Under Changing Vegetation and Climate. <i>Water Resources Research</i> , 2021 , 57, e2021WR029832	5.4	3
14	Long-term logging residue loadings affect tree growth but not soil nutrients in <i>Pinus contorta</i> Dougl. ex Loud. forests. <i>Annals of Forest Science</i> , 2020 , 77, 1	3.1	2
13	Assessing hydrological responses to reforestation and fruit tree planting in a sub-tropical forested watershed using a combined research approach. <i>Journal of Hydrology</i> , 2020 , 590, 125480	6	2
12	Forest cover change, climate variability, and hydrological responses. <i>Ecohydrology</i> , 2017 , 10, e1847	2.5	1
11	Responses of forest carbon and water coupling to thinning treatments from leaf to stand scales in a young montane pine forest. <i>Carbon Balance and Management</i> , 2020 , 15, 24	3.6	1
10	If They Come, Where will We Build It? Land-Use Implications of Two Forest Conservation Policies in the Deep Creek Watershed. <i>Forests</i> , 2019 , 10, 581	2.8	1
9	Dramatic increase in water use efficiency with cumulative forest disturbance at the large forested watershed scale. <i>Carbon Balance and Management</i> , 2021 , 16, 6	3.6	1
8	Approaching four decades of forest watershed research at Upper Penticton Creek, British Columbia: A synthesis. <i>Hydrological Processes</i> , 2021 , 35, e14123	3.3	1
7	Cumulative disturbance converts regional forests into a substantial carbon source. <i>Environmental Research Letters</i> , 2022 , 17, 044049	6.2	1
6	Improving Plot-Level Model of Forest Biomass: A Combined Approach Using Machine Learning with Spatial Statistics. <i>Forests</i> , 2021 , 12, 1663	2.8	0
5	The role of biodiversity in mitigating the effects of nutrient limitation and short-term rotations in plantations of subtropical China. <i>Journal of Environmental Management</i> , 2021 , 114140	7.9	0
4	Cumulative forest disturbances decrease runoff in two boreal forested watersheds of the northern interior of British Columbia, Canada. <i>Journal of Hydrology</i> , 2022 , 605, 127362	6	0
3	Reexamining forest disturbance thresholds for managing cumulative hydrological impacts. <i>Ecohydrology</i> , e2347	2.5	0
2	Structure Disentanglement and Effect Analysis of the Arid Riverscape Social-Ecological System Using a Network Approach. <i>Sustainability</i> , 2019 , 11, 5159	3.6	
1	Forest Hydrology in China: Introduction to the Featured Collection1. <i>Journal of the American Water Resources Association</i> , 2008 , 44, 1073-1075	2.1	