

Takashi Gomi

List of Publications by Year in descending order

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86
papers

3,487
citations

126708

33
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143772

57
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89
docs citations

89
times ranked

2700
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding Processes and Downstream Linkages of Headwater Systems. <i>BioScience</i> , 2002, 52, 905.	2.2	622
2	Dynamic runoff connectivity of overland flow on steep forested hillslopes: Scale effects and runoff transfer. <i>Water Resources Research</i> , 2008, 44, .	1.7	149
3	Interception of the Fukushima reactor accidentâ€derived ¹³⁷ Cs, ¹³⁴ Cs and ¹³¹ I by coniferous forest canopies. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	132
4	Characteristics of channel steps and reach morphology in headwater streams, southeast Alaska. <i>Geomorphology</i> , 2003, 51, 225-242.	1.1	106
5	Hortonian overland flow from Japanese forest plantationsâ€an aberration, the real thing, or something in between?. <i>Hydrological Processes</i> , 2007, 21, 3237-3247.	1.1	106
6	Effects of forest floor coverage on overland flow and soil erosion on hillslopes in Japanese cypress plantation forests. <i>Water Resources Research</i> , 2009, 45, .	1.7	102
7	SUSPENDED SEDIMENT DYNAMICS IN SMALL FOREST STREAMS OF THE PACIFIC NORTHWEST. <i>Journal of the American Water Resources Association</i> , 2005, 41, 877-898.	1.0	99
8	SPATIAL AND TEMPORAL DYNAMICS OF WOOD IN HEADWATER STREAMS OF THE PACIFIC NORTHWEST. <i>Journal of the American Water Resources Association</i> , 2005, 41, 899-919.	1.0	98
9	Runoff responses to forest thinning at plot and catchment scales in a headwater catchment draining Japanese cypress forest. <i>Journal of Hydrology</i> , 2012, 444-445, 51-62.	2.3	89
10	A Review of SWAT Model Application in Africa. <i>Water (Switzerland)</i> , 2021, 13, 1313.	1.2	89
11	SPATIAL AND TEMPORAL DYNAMICS OF WOOD IN HEADWATER STREAMS OF THE PACIFIC NORTHWEST. <i>Journal of the American Water Resources Association</i> , 2005, 41, 899-919.	1.0	85
12	The characteristics of woody debris and sediment distribution in headwater streams, southeastern Alaska. <i>Canadian Journal of Forest Research</i> , 2001, 31, 1386-1399.	0.8	81
13	Surface runoff as affected by soil water repellency in a Japanese cypress forest. <i>Hydrological Processes</i> , 2007, 21, 2365-2376.	1.1	81
14	Characteristics of overland flow generation on steep forested hillslopes of central Japan. <i>Journal of Hydrology</i> , 2008, 361, 275-290.	2.3	81
15	An overview of the field and modelling studies on the effects of forest devastation on flooding and environmental issues. <i>Hydrological Processes</i> , 2010, 24, 527-534.	1.1	80
16	Sediment and wood accumulations in humid tropical headwater streams: Effects of logging and riparian buffers. <i>Forest Ecology and Management</i> , 2006, 224, 166-175.	1.4	75
17	The role of litterfall in transferring Fukushima-derived radiocesium to a coniferous forest floor. <i>Science of the Total Environment</i> , 2014, 490, 435-439.	3.9	72
18	Hydrogeomorphic processes and scaling issues in the continuum from soil pedons to catchments. <i>Earth-Science Reviews</i> , 2017, 175, 75-96.	4.0	69

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19	Effect of ground cover on splash and sheetwash erosion over a steep forested hillslope: A plot-scale study. <i>Catena</i> , 2011, 85, 34-47.	2.2	67
20	Vertical distribution of radiocesium in coniferous forest soil after the Fukushima nuclear power plant accident. <i>Journal of Environmental Radioactivity</i> , 2014, 137, 37-45.	0.9	57
21	Hydrogeomorphic linkages of sediment transport in headwater streams, Maybeso Experimental Forest, southeast Alaska. <i>Hydrological Processes</i> , 2004, 18, 667-683.	1.1	56
22	Evaluation of storm runoff pathways in steep nested catchments draining a Japanese cypress forest in central Japan: a geochemical approach. <i>Hydrological Processes</i> , 2010, 24, 550-566.	1.1	56
23	Bed load transport in managed steep-gradient headwater streams of southeastern Alaska. <i>Water Resources Research</i> , 2003, 39, .	1.7	55
24	Radiocesium leaching from contaminated litter in forest streams. <i>Journal of Environmental Radioactivity</i> , 2015, 144, 15-20.	0.9	50
25	Linkages among land use, macronutrient levels, and soil erosion in northern Vietnam: A plot-scale study. <i>Geoderma</i> , 2014, 232-234, 352-362.	2.3	49
26	Soil removal as a decontamination practice and radiocesium accumulation in tadpoles in rice paddies at Fukushima. <i>Environmental Pollution</i> , 2014, 187, 112-115.	3.7	44
27	Persistence of road runoff generation in a logged catchment in Peninsular Malaysia. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 1947-1970.	1.2	43
28	Quantifying the impact of forest management practice on the runoff of the surface-derived suspended sediment using fallout radionuclides. <i>Hydrological Processes</i> , 2010, 24, 596-607.	1.1	40
29	Effect of strip thinning on rainfall interception in a Japanese cypress plantation. <i>Journal of Hydrology</i> , 2015, 525, 607-618.	2.3	40
30	The effect of strip thinning on tree transpiration in a Japanese cypress (<i>Chamaecyparis obtusa</i> Endl.) plantation. <i>Agricultural and Forest Meteorology</i> , 2014, 197, 123-135.	1.9	39
31	Effect of tree thinning and skidding trails on hydrological connectivity in two Japanese forest catchments. <i>Geomorphology</i> , 2017, 292, 104-114.	1.1	37
32	Immediate change in throughfall spatial distribution and canopy water balance after heavy thinning in a dense mature Japanese cypress plantation. <i>Ecohydrology</i> , 2016, 9, 300-314.	1.1	36
33	Spatial pattern of infiltration rate and its effect on hydrological processes in a small headwater catchment. <i>Hydrological Processes</i> , 2010, 24, 535-549.	1.1	34
34	Different cesium-137 transfers to forest and stream ecosystems. <i>Environmental Pollution</i> , 2016, 209, 46-52.	3.7	30
35	Disturbances structuring macroinvertebrate communities in steep headwater streams: relative importance of forest clearcutting and debris flow occurrence. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2010, 67, 427-444.	0.7	29
36	Partitioning of the total evapotranspiration in a Japanese cypress plantation during the growing season. <i>Ecohydrology</i> , 2014, 7, 1042-1053.	1.1	29

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37	Assessing spatially distributed infiltration capacity to evaluate storm runoff in forested catchments: Implications for hydrological connectivity. <i>Science of the Total Environment</i> , 2019, 669, 148-159.	3.9	25
38	The effect of strip thinning on spatial and temporal variability of throughfall in a Japanese cypress plantation. <i>Hydrological Processes</i> , 2015, 29, 5058-5070.	1.1	23
39	Analysis of stream water temperature changes during rainfall events in forested watersheds. <i>Limnology</i> , 2010, 11, 115-124.	0.8	21
40	Effect of forest thinning on overland flow generation on hillslopes covered by Japanese cypress. <i>Ecohydrology</i> , 2011, 4, 367-378.	1.1	21
41	Downslope soil detachment–transport on steep slopes via rain splash. <i>Hydrological Processes</i> , 2011, 25, 2471-2480.	1.1	21
42	Fallout volume and litter type affect ¹³⁷ Cs concentration difference in litter between forest and stream environments. <i>Journal of Environmental Radioactivity</i> , 2016, 164, 169-173.	0.9	18
43	Developing a food web-based transfer factor of radiocesium for fish, whitespotted char (<i>Salvelinus</i>) TJ ETQq1 1 0.784314 rgBT /Overland	0.9	18
44	Short-term responses of macroinvertebrate drift following experimental sediment flushing in a Japanese headwater channel. <i>Landscape and Ecological Engineering</i> , 2010, 6, 257-270.	0.7	17
45	Change in evapotranspiration partitioning after thinning in a Japanese cypress plantation. <i>Trees - Structure and Function</i> , 2017, 31, 1411-1421.	0.9	17
46	Factors affecting distribution of wood, detritus, and sediment in headwater streams draining managed young-growth red alder – conifer forests in southeast Alaska. <i>Canadian Journal of Forest Research</i> , 2006, 36, 725-737.	0.8	16
47	Responses of macroinvertebrate communities to 4 years of deer exclusion in first- and second-order streams. <i>Freshwater Science</i> , 2013, 32, 563-575.	0.9	16
48	A new method to measure substrate coherent strength of <i>Stenopsyche marmorata</i> . <i>Landscape and Ecological Engineering</i> , 2008, 4, 125-131.	0.7	13
49	Influences of forested watershed conditions on fluctuations in stream water temperature with special reference to watershed area and forest type. <i>Limnology</i> , 2009, 10, 33-45.	0.8	13
50	Peak flow responses and recession flow characteristics after thinning of Japanese cypress forest in a headwater catchment. <i>Hydrological Research Letters</i> , 2012, 6, 35-40.	0.3	13
51	Suspended-sediment responses after strip thinning in headwater catchments. <i>Landscape and Ecological Engineering</i> , 2016, 12, 197-208.	0.7	13
52	Discovery of zero-order basins as an important link for progress in hydrogeomorphology. <i>Hydrological Processes</i> , 2018, 32, 3059-3065.	1.1	13
53	Untangling radiocesium dynamics of forest-stream ecosystems: A review of Fukushima studies in the decade after the accident. <i>Environmental Pollution</i> , 2021, 288, 117744.	3.7	13
54	Factors Affecting Generation of Hortonian Overland Flow in Forested Hillslopes: Analysis of Observation Results at Three Sites with Different Geology and Rainfall Characteristics.. <i>Journal of the Japanese Forest Society</i> , 2009, 91, 398-407.	0.1	13

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55	Ecosystem changes following the 2016 Kumamoto earthquakes in Japan: Future perspectives. <i>Ambio</i> , 2018, 47, 721-734.	2.8	12
56	The continuum of chronic to episodic natural hazards: Implications and strategies for community and landscape planning. <i>Landscape and Urban Planning</i> , 2017, 167, 189-197.	3.4	11
57	Evaluating ¹³⁷ Cs detachment from coniferous needle litter in a headwater stream: a litter bag field experiment. <i>Landscape and Ecological Engineering</i> , 2018, 14, 17-27.	0.7	11
58	Slope length effect on sediment and organic litter transport on a steep forested hillslope: upscaling from plot to hillslope scale. <i>Hydrological Research Letters</i> , 2011, 5, 16-20.	0.3	11
59	Peak flow responses to strip thinning in a nested, forested headwater catchment. <i>Hydrological Processes</i> , 2015, 29, 5098-5108.	1.1	10
60	Seasonal changes of nitrate concentrations in baseflow headwaters of coniferous forests in Japan: A significant indicator for N saturation. <i>Catena</i> , 2008, 76, 63-69.	2.2	9
61	Changes in bedload transport rate associated with episodic sediment supply in a Japanese headwater channel. <i>Catena</i> , 2009, 77, 207-215.	2.2	9
62	Responses of bed load yields from a forested headwater catchment in the eastern Tanzawa Mountains, Japan. <i>Hydrological Research Letters</i> , 2015, 9, 41-46.	0.3	9
63	Contrasting Patterns in the Decrease of Spatial Variability With Increasing Catchment Area Between Stream Discharge and Water Chemistry. <i>Water Resources Research</i> , 2019, 55, 7419-7435.	1.7	9
64	Characteristics of landslides in forests and grasslands triggered by the 2016 Kumamoto earthquake. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 893-904.	1.2	9
65	Understory biomass measurement in a dense plantation forest based on drone-SfM data by a manual low-flying drone under the canopy. <i>Journal of Environmental Management</i> , 2022, 312, 114862.	3.8	9
66	Stream Temperature Response to 50% Strip-Thinning in a Temperate Forested Headwater Catchment. <i>Water (Switzerland)</i> , 2021, 13, 1022.	1.2	8
67	Radioactive cesium contamination and its biological half-life in larvae of <i>Stenopsyche marmorata</i> (Trichoptera: Stenopsychidae). <i>Landscape and Ecological Engineering</i> , 2018, 14, 37-43.	0.7	7
68	Distribution of amphipods (<i>Gammarus nipponensis</i> Ueno) among mountain headwater streams with different legacies of debris flow occurrence. <i>Ecohydrology</i> , 2013, 6, 117-124.	1.1	6
69	Infiltration Capacity and Runoff Characteristics of a Forest Road. <i>Journal of the Japanese Forest Society</i> , 2014, 96, 315-322.	0.1	6
70	Influence of strip thinning on nutrient outflow concentrations from plantation forested watersheds. <i>Hydrological Processes</i> , 2015, 29, 5109-5119.	1.1	6
71	Field estimation of interception in a broadleaf forest under multi-layered structure conditions. <i>Hydrological Research Letters</i> , 2017, 11, 181-186.	0.3	5
72	Effect of canopy openness and meteorological factors on spatial variability of throughfall isotopic composition in a Japanese cypress plantation. <i>Hydrological Processes</i> , 2018, 32, 1038-1049.	1.1	5

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73	Seasonal variations of ^{137}Cs concentration in freshwater charr through uptake and metabolism in 2 years after the Fukushima accident. <i>Ecological Research</i> , 2021, 36, 935-946.	0.7	4
74	Effects of Spatial Scales on Runoff / Sediment Transport in Mountain Catchments (1) - A Review of Field Observations on Catchment Area and Properties. <i>Suimon Mizu Shigen Gakkaishi</i> , 2018, 31, 219-231.	0.1	4
75	Ecological resilience of physical plant-soil feedback to chronic deer herbivory: Slow, partial, but functional recovery. <i>Ecological Applications</i> , 2022, 32, e2656.	1.8	4
76	Effects of Spatial Scales on Runoff / Sediment Transport in Mountain Catchments (2) -Results from Intensively Studied Catchments. <i>Suimon Mizu Shigen Gakkaishi</i> , 2018, 31, 232-244.	0.1	3
77	Collapsed material movement of deep-seated landslides caused by Typhoon Talas 2011 on the Kii Peninsula, Japan. <i>International Journal of Erosion Control Engineering</i> , 2017, 10, 108-119.	0.5	2
78	Land Cover and Characteristics of Landslides Induced by the 2018 M6.7 Eastern Iburi Earthquake, Hokkaido. <i>International Journal of Erosion Control Engineering</i> , 2021, 13, 76-83.	0.5	2
79	Impact of Sika Deer on Soil Properties and Erosion. <i>Structure and Function of Mountain Ecosystems in Japan</i> , 2022, , 399-413.	0.1	2
80	Merging perspectives in the catchment sciences: the US-Japan Joint Seminar on catchment hydrology and forest biogeochemistry. <i>Hydrological Processes</i> , 2014, 28, 2878-2880.	1.1	1
81	Effects of Spatial Scales on Runoff / Sediment Transport in Mountain Catchments (3) -Review for the Treatments of Numerical Models. <i>Suimon Mizu Shigen Gakkaishi</i> , 2018, 31, 245-261.	0.1	1
82	Long-term impacts of forest disturbances: Comparing cumulative effects of clearcut logging versus landslide on stream conditions and abundance of a headwater stonefly <i>Scopura montana</i> . <i>Freshwater Biology</i> , 2021, 66, 2004-2015.	1.2	1
83	Tracing radioactive contamination of river basins for the development of effective mitigation measures. <i>Landscape and Ecological Engineering</i> , 2018, 14, 1-2.	0.7	0
84	Road Dust as a Significant Radiocesium Transporter from Land to River. <i>Archives of Environmental Contamination and Toxicology</i> , 2020, 79, 39-48.	2.1	0
85	Effects of Spatial Scales on Runoff/Sediment Transport in Mountain Catchments (4): Avenues for Prediction Improvement. <i>Suimon Mizu Shigen Gakkaishi</i> , 2021, 34, 192-204.	0.1	0
86	Gravel bar as an interface of ecological network. <i>Journal of the Japanese Society of Revegetation Technology</i> , 2019, 44, 489-493.	0.0	0