AndrÃ©s A IroumÃ©

List of Publications by Year
in descending order

83 papers	2,223 citations	159585 30 h-index	254184 43 g-index
89 all docs	89 docs citations	89 times ranked	2054 citing authors

#	Article	IF	Citations
1	Variability of annual rainfall partitioning for different sites and forest covers in Chile. Journal of Hydrology, 2001, 248, 78-92.	5.4	112
2	Forest impact on floods due to extreme rainfall and snowmelt in four Latin American environments 1: Field data analysis. Journal of Hydrology, 2011, 400, 281-291.	5.4	89
3	Effect ofPinus radiata plantations on water balance in Chile. Hydrological Processes, 2008, 22, 142-148.	2.6	72
4	Extending the timescale for using beryllium 7 measurements to document soil redistribution by erosion. Water Resources Research, 2009, 45, .	4.2	72
5	Use of Beryllium-7 to Document Soil Redistribution following Forest Harvest Operations. Journal of Environmental Quality, 2006, 35, 1756-1763.	2.0	71
6	The effect of forest cover on peak flow and sediment dischargeâ€"an integrated field and modelling study in centralâ€"southern Chile. Hydrological Processes, 2011, 25, 1284-1297.	2.6	67
7	Field based analysis of sediment entrainment in two high gradient streams located in Alpine and Andine environments. Geomorphology, 2008, 93, 368-383.	2.6	65
8	Efecto de plantaciones de Pinus radiata y Eucalyptus globulus sobre el recurso agua en la Cordillera de la Costa de la regiÃ³n del BiobÃ¤o, Chile. Bosque, 2010, 31, 219-230.	0.3	64
9	Using 137Cs and 210Pbex and other sediment source fingerprints to document suspended sediment sources in small forested catchments in south-central Chile. Journal of Environmental Radioactivity, 2013, 124, 147-159.	1.7	56
10	Water sustainability and watershed storage. Nature Sustainability, 2018, 1, 378-379.	23.7	56
11	Runoff and peak flow responses to timber harvest and forest age in southern Chile. Hydrological Processes, 2006, 20, 37-50.	2.6	55
12	Assessing and mitigating large woodâ€related hazards in mountain streams: recent approaches. Journal of Flood Risk Management, 2018, 11, 207-222.	3.3	55
13	Forest impact on floods due to extreme rainfall and snowmelt in four Latin American environments 2: Model analysis. Journal of Hydrology, 2011, 400, 292-304.	5.4	54
14	Extraordinary sediment delivery and rapid geomorphic response following the 2008â€"2009 eruption of ChaitÃ©n Volcano, Chile. Water Resources Research, 2016, 52, 5075-5094.	4.2	54
15	Comparison of interception losses in a broadleaved native forest and aPseudotsuga menziesii(Douglas) Tj ETQq1 1 0.784314 rgBT /O	2.6	53
16	Large wood mobility processes in low-order Chilean river channels. Geomorphology, 2015, 228, 681-693.	2.6	50
17	Summer flows in experimental catchments with different forest covers, Chile. Journal of Hydrology, 2005, 300, 300-313.	5.4	47
18	Flume and field-based calibration of surrogate sensors for monitoring bedload transport. Geomorphology, 2016, 253, 10-21.	2.6	46

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19	Afforestation and changes in forest composition affect runoff in large river basins with pluvial regime and Mediterranean climate, Chile. Journal of Hydrology, 2013, 505, 113-125.	5.4	45
20	Large wood abundance, distribution and mobilization in a third order Coastal mountain range river system, southern Chile. Forest Ecology and Management, 2010, 260, 480-490.	3.2	44
21	Investigation of runoff generation in a pristine, poorly gauged catchment in the Chilean Andes I: A multiâ€method experimental study. Hydrological Processes, 2008, 22, 3661-3675.	2.6	43
22	Streamflow response in small upland catchments in the Chilean coastal range to the M_W 8.8 Maule earthquake on 27 February 2010. Journal of Geophysical Research, 2012, 117, .	3.3	40
23	Forests and water in South America. Hydrological Processes, 2017, 31, 972-980.	2.6	37
24	Recent geomorphological evolution of a natural river channel in a Mediterranean Chilean basin. Geomorphology, 2018, 303, 322-337.	2.6	35
25	Use of beryllium-7 to study the effectiveness of woody trash barriers in reducing sediment delivery to streams after forest clearcutting. Soil and Tillage Research, 2010, 110, 143-153.	5.6	34
26	Runoff generation and soil erosion processes after clear cutting. Journal of Geophysical Research F: Earth Surface, 2013, 118, 814-831.	2.8	34
27	Use of remote imagery to analyse changes in morphology and longitudinal large wood distribution in the blanco river after the 2008 chaitÃ©n volcanic eruption, southern chile. Geografiska Annaler, Series A: Physical Geography, 2015, 97, 523-541.	1.5	34
28	Quantification of fluvial wood using UAVs and structure from motion. Geomorphology, 2019, 345, 106837.	2.6	34
29	Cascading processes in a changing environment: Disturbances on fluvial ecosystems in Chile and implications for hazard and risk management. Science of the Total Environment, 2019, 655, 1089-1103.	8.0	34
30	Dynamics and management alternatives of in-channel large wood in mountain basins of the southern Andes. Bosque, 2013, 34, 15-16.	0.3	31
31	Sediment connectivity changes in an Andean catchment affected by volcanic eruption. Science of the Total Environment, 2019, 692, 1209-1222.	8.0	31
32	Forests and floods: Using field evidence to reconcile analysis methods. Hydrological Processes, 2020, 34, 3295-3310.	2.6	30
33	Reflections on the history of research on large wood in rivers. Earth Surface Processes and Landforms, 2021, 46, 55-66.	2.5	30
34	Compaction and soil disturbances from logging in Southern Chile. Annales Des Sciences ForestiÃ¨res, 1991, 48, 63-71.	1.2	28
35	Forests and floods in Latin America: science, management, policy and the EPIC FORCE project. Water International, 2010, 35, 114-131.	1.0	28
36	Temporal variations of large wood abundance and mobility in the Blanco River affected by the ChaitÃ©n volcanic eruption, southern Chile. Catena, 2017, 156, 149-160.	5.0	26

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37	Massive biomass flushing despite modest channel response in the Rayas River following the 2008 eruption of ChaitÃ©n volcano, Chile. Geomorphology, 2015, 250, 397-406.	2.6	24
38	How much water do Chilean forests use? A review of interception losses in forest plot studies. Hydrological Processes, 2016, 30, 4674-4686.	2.6	23
39	Interdisciplinary Studies of Eruption at ChaitÃ©n Volcano, Chile. Eos, 2010, 91, 381-382.	0.1	22
40	Spatial analysis of the impacts of the ChaitÃ©n volcano eruption (Chile) in three fluvial systems. Journal of South American Earth Sciences, 2016, 69, 213-225.	1.4	21
41	Quantitative generalizations for catchment sediment yield following forest logging. Water Resources Research, 2014, 50, 8383-8402.	4.2	19
42	Assessing the effect of fire severity on sediment connectivity in central Chile. Science of the Total Environment, 2020, 728, 139006.	8.0	18
43	Large Wood Volume and Longitudinal Distribution in Channel Segments Draining Catchments with Different Land Use, Chile. Open Journal of Modern Hydrology, 2014, 04, 57-66.	1.0	18
44	Material leÃ±oso de gran tamaÃ±o en dos cuencas de la Cordillera de la Costa de Chile con diferente historia de uso del suelo. Bosque, 2011, 32, 235-245.	0.3	17
45	Assessment of Runoff and Suspended Sediment Yield in a Partially Forested Catchment in Southern Chile. Water Resources Research, 1990, 26, 2637-2642.	4.2	15
46	Large wood load fluctuations in an Andean basin. Earth Surface Processes and Landforms, 2021, 46, 371-384.	2.5	15
47	The solute budget of a forest catchment and solute fluxes within aPinus radiataand a secondary native forest site, southern Chile. Hydrological Processes, 2002, 16, 2521-2536.	2.6	14
48	Morphological characterization of a highly-dynamic fluvial landscape: The River Baker (Chilean) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	1.4	14
49	Transporte de sedimentos en una cuenca de montaÃ±a en la Cordillera de los Andes de la Novena RegiÃ³n de Chile. Bosque, 2003, 24, .	0.3	14
50	Pyroclastic Eruption Boosts Organic Carbon Fluxes Into Patagonian Fjords. Global Biogeochemical Cycles, 2017, 31, 1626-1638.	4.9	13
51	Geomorphic and stream flow influences on large wood dynamics and displacement lengths in high gradient mountain streams (<scp>C</scp>hile). Hydrological Processes, 2018, 32, 2636-2653.	2.6	13
52	Seasonal logging, process response, and geomorphic work. Earth Surface Dynamics, 2014, 2, 117-125.	2.4	12
53	The effects of topography and forest management on water storage in catchments in southâ€central Chile. Hydrological Processes, 2018, 32, 3225-3240.	2.6	12
54	Movilidad y reclutamiento de material leÃ±oso de gran tamaÃ±o en dos cauces de la Cordillera de la Costa de Chile. Bosque, 2011, 32, 247-254.	0.3	12

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55	Unravelling the impacts to the built environment caused by floods in a river heavily perturbed by volcanic eruptions. Journal of South American Earth Sciences, 2020, 102, 102655.	1.4	11
56	IntercepciÃ³n de las lluvias por la cubierta de bosques y efecto en los caudales de crecida en una cuenca experimental en Malalcahuello, IX RegiÃ³n, Chile. Bosque, 2000, 21, 45-56.	0.3	11
57	Post-eruption morphological evolution and vegetation dynamics of the Blanco River, southern Chile. Journal of South American Earth Sciences, 2020, 104, 102809.	1.4	10
58	Breakdown of instream wood in low order forested streams of the Southern Chilean mountain ranges. Forest Ecology and Management, 2017, 401, 17-32.	3.2	9
59	Toward participatory decision-making in river corridor management: two case studies from the European Alps. Journal of Environmental Planning and Management, 2018, 61, 1250-1270.	4.5	9
60	Modelling the Effects of Changes in Forest Cover and Climate on Hydrology of Headwater Catchments in South-Central Chile. Water (Switzerland), 2020, 12, 1828.	2.7	9
61	Longâ€term large wood load fluctuations in two lowâ€order streams in Southern Chile. Earth Surface Processes and Landforms, 2020, 45, 1959-1973.	2.5	9
62	Forest operations, tree species composition and decline in rainfall explain runoff changes in the Nacimiento experimental catchments, south central Chile. Hydrological Processes, 2021, 35, e14257.	2.6	9
63	EvaluaciÃ³n de los volÃºmenes y de los efectos hidro-morfolÃ³gicos del material leÃ±oso en dos torrentes andinos (Chile). IngenierÃa Del Agua, 2008, 15, 189.	0.4	9
64	Do the morphological characteristics of Chilean gravel-bed rivers exhibit latitudinal patterns?. Journal of South American Earth Sciences, 2020, 99, 102522.	1.4	8
65	Comparison of streamflow recession between plantations and native forests in small catchments in Centralâ€Southern Chile. Hydrological Processes, 2021, 35, e14182.	2.6	8
66	Role and management of in-channel wood in relation to flood events in Southern Andes basins. WIT Transactions on Engineering Sciences, 2008, , .	0.0	8
67	Reach scale ecologic influence of in-stream large wood in a Coastal Mountain range channel, Southern Chile. Gayana, 2014, 78, 85-97.	0.1	7
68	The Effects of Replacing Native Forest on the Quantity and Impacts of Inâ€Channel Pieces of Large Wood in Chilean Streams. River Research and Applications, 2017, 33, 73-88.	1.7	7
69	Fluvial transport of coarse particulate organic matter in a coastal mountain stream of a rainyâ€temperate evergreen broadleaf forest in southern Chile. Earth Surface Processes and Landforms, 2020, 45, 3216-3230.	2.5	7
70	Residuos leÃ±osos de gran tamaÃ±o en un torrente de la Cordillera de Los Andes, Chile: su funcionalidad e importancia. Bosque, 2007, 28, .	0.3	7
71	Estudio de los procesos hidrolÃ³gicos en una cuenca experimental forestal andina de la IX RegiÃ³n, Chile. Bosque, 1997, 18, 73-81.	0.3	7
72	Hydrological effects of large dams in Chilean rivers. Journal of Hydrology: Regional Studies, 2022, 41, 101060.	2.4	6

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73	Partial afforestation has uncertain effect on flood frequency and peak discharge at large catchment scales (100â€“1000 km²), southâ€central Chile. Hydrological Processes, 2022, 36, .	2.6	5
74	SDG 6: Clean Water and Sanitation â€“ Forest-Related Targets and Their Impacts on Forests and People. , 2019, , 178-205.		4
75	Preface for the South American Hydrology Virtual Special Issue. Hydrological Processes, 2018, 32, 454-458.	2.6	3
76	Introduction to the Wood in World Rivers special issue. Earth Surface Processes and Landforms, 2021, 46, 1640-1645.	2.5	3
77	EscorrentÃas y caudales mÃ¡ximos luego de la cosecha a tala rasa y del establecimiento de una nueva plantaciÃ³n en una cuenca experimental del sur de Chile. Bosque, 2010, 31, .	0.3	2
78	VARIABILIDAD ESPACIAL Y TEMPORAL DE LA INFILTRACIÃ“N EN UNA CUENCA EXPERIMENTAL EN LA CORDILLERA DE LOS ANDES, IX REGIÃ“N, CHILE. Agro Sur, 2000, 28, 1-9.	0.2	2
79	Forest Impact on Flood Peak Discharge and Sediment Yield in Streamflow. , 2017, , 15-29.		0
80	Evaluating the Effects of Forest Cover Changes on Sediment Connectivity in a Catchment Affected by Multiple Wildfires. Lecture Notes in Civil Engineering, 2020, , 13-20.	0.4	0
81	What do biphasic flow experiments reveal on the variability of exposure on alluvial fans and which implications for risk assessment result from this?. Natural Hazards, 2022, 111, 3099-3120.	3.4	0
82	Abundance of Benthic Algae in Forestry Watersheds and the Associated Forest Cover Factors. Forests, 2022, 13, 378.	2.1	0
83	Assessing woody vegetation recovery in the Rayas River following the eruption of the ChaitÃ©n Volcano in 2008. Geological Society Special Publication, 0, , SP520-2020-261.	1.3	0