

Jean-Loup Guyot

List of Publications by Year in descending order

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112
papers

7,551
citations

43973

48
h-index

56606

83
g-index

114
all docs

114
docs citations

114
times ranked

7801
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for global runoff increase related to climate warming. <i>Advances in Water Resources</i> , 2004, 27, 631-642.	1.7	522
2	Spatio-temporal rainfall variability in the Amazon basin countries (Brazil, Peru, Bolivia, Colombia, and) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	1.5	400
3	Intensification of the Amazon hydrological cycle over the last two decades. <i>Geophysical Research Letters</i> , 2013, 40, 1729-1733.	1.5	284
4	Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation. <i>Nature</i> , 2003, 425, 493-497.	13.7	275
5	Interannual rainfall variability in the Amazon basin and sea-surface temperatures in the equatorial Pacific and the tropical Atlantic Oceans. <i>International Journal of Climatology</i> , 2002, 22, 1663-1686.	1.5	199
6	Recent advances in wavelet analyses: Part 2 "Amazon, Parana, Orinoco and Congo discharges time scale variability. <i>Journal of Hydrology</i> , 2005, 314, 289-311.	2.3	191
7	Geomorphic Controls on Andean Denudation Rates. <i>Journal of Geology</i> , 2006, 114, 85-99.	0.7	179
8	Increase in suspended sediment discharge of the Amazon River assessed by monitoring network and satellite data. <i>Catena</i> , 2009, 79, 257-264.	2.2	176
9	Exportation of organic carbon from the Amazon River and its main tributaries. <i>Hydrological Processes</i> , 2003, 17, 1329-1344.	1.1	161
10	Oxygen isotopes in tree rings are a good proxy for Amazon precipitation and El Niño-Southern Oscillation variability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16957-16962.	3.3	158
11	Clay mineral composition of river sediments in the Amazon Basin. <i>Catena</i> , 2007, 71, 340-356.	2.2	157
12	Floodplain hydrology in an Amazon floodplain lake (Lago Grande de Curua). <i>Journal of Hydrology</i> , 2008, 349, 18-30.	2.3	157
13	Contrasting regional discharge evolutions in the Amazon basin (1974-2004). <i>Journal of Hydrology</i> , 2009, 375, 297-311.	2.3	155
14	The extreme 2014 flood in south-western Amazon basin: the role of tropical-subtropical South Atlantic SST gradient. <i>Environmental Research Letters</i> , 2014, 9, 124007.	2.2	152
15	A Comparative Performance Analysis of TRMM 3B42 (TMPA) Versions 6 and 7 for Hydrological Applications over Andean Amazon River Basins. <i>Journal of Hydrometeorology</i> , 2014, 15, 581-592.	0.7	149
16	Climate variability and extreme drought in the upper Solimões River (western Amazon Basin): Understanding the exceptional 2010 drought. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	141
17	Chemical weathering and atmospheric/soil CO ₂ uptake in the Andean and Foreland Amazon basins. <i>Chemical Geology</i> , 2011, 287, 1-26.	1.4	121
18	The Major Floods in the Amazonas River and Tributaries (Western Amazon Basin) during the 1970-2012 Period: A Focus on the 2012 Flood*. <i>Journal of Hydrometeorology</i> , 2013, 14, 1000-1008.	0.7	118

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19	Suspended sediment yields in the Amazon basin: an assessment using the Brazilian national data set. <i>Hydrological Processes</i> , 2009, 23, 3207-3215.	1.1	117
20	Temporal dynamics of water and sediment exchanges between the Curuaí-floodplain and the Amazon River, Brazil. <i>Journal of Hydrology</i> , 2007, 335, 140-156.	2.3	112
21	Sediment production and delivery in the Amazon River basin quantified by in situ-produced cosmogenic nuclides and recent river loads. <i>Bulletin of the Geological Society of America</i> , 2011, 123, 934-950.	1.6	111
22	Slope and climate variability control of erosion in the Andes of central Chile. <i>Geology</i> , 2013, 41, 195-198.	2.0	103
23	Carbon sedimentation at Lago Grande de Curuai, a floodplain lake in the low Amazon region: insights into sedimentation rates. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 214, 27-40.	1.0	88
24	Discharge simulation in the sub-basins of the Amazon using ORCHIDEE forced by new datasets. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 911-935.	1.9	87
25	Mixing processes in the Amazon River at the confluences of the Negro and Solimões Rivers, Encontro das Águas, Manaus, Brazil. <i>Hydrological Processes</i> , 2009, 23, 3131-3140.	1.1	86
26	The use of Doppler technology for suspended sediment discharge determination in the River Amazon / Utilisation des techniques Doppler pour la détermination du transport solide de l'Amazonie. <i>Hydrological Sciences Journal</i> , 2004, 49, 143-153.	1.2	81
27	Seasonal and provenance controls on Nd-Sr isotopic compositions of Amazon rivers suspended sediments and implications for Nd and Sr fluxes exported to the Atlantic Ocean. <i>Earth and Planetary Science Letters</i> , 2008, 274, 511-523.	1.8	80
28	A study of sediment transport in the Madeira River, Brazil, using MODIS remote-sensing images. <i>Journal of South American Earth Sciences</i> , 2013, 44, 45-54.	0.6	79
29	Heterogeneous Distribution of Rainfall and Discharge Regimes in the Ecuadorian Amazon Basin. <i>Journal of Hydrometeorology</i> , 2007, 8, 1364-1381.	0.7	78
30	Basin-scale analysis of rainfall and runoff in Peru (1969-2004): Pacific, Titicaca and Amazonas drainages. <i>Hydrological Sciences Journal</i> , 2012, 57, 625-642.	1.2	78
31	The carbon balance of South America: a review of the status, decadal trends and main determinants. <i>Biogeosciences</i> , 2012, 9, 5407-5430.	1.3	78
32	Evolution du débit de l'Amazonie à l'aval de 1903 à 1999 / Evolution of the River Amazon's discharge at the mouth from 1903 to 1999. <i>Hydrological Sciences Journal</i> , 2004, 49, 85-97.	1.2	77
33	Temporal relations between meander deformation, water discharge and sediment fluxes in the floodplain of the Rio Beni (Bolivian Amazonia). <i>Earth Surface Processes and Landforms</i> , 2007, 32, 230-248.	1.2	73
34	From drought to flooding: understanding the abrupt 2010-11 hydrological annual cycle in the Amazonas River and tributaries. <i>Environmental Research Letters</i> , 2012, 7, 024008.	2.2	67
35	Hydroclimate variability of the northwestern Amazon Basin near the Andean foothills of Peru related to the South American Monsoon System during the last 1600 years. <i>Climate of the Past</i> , 2014, 10, 1967-1981.	1.3	67
36	Sea-level effects on flows in the lower reaches of the Amazon River. <i>Hydrological Processes</i> , 2009, 23, 3141-3150.	1.1	66

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37	Les apports en eau de l'Amazonie à l'Océan Atlantique. Revue Des Sciences De L'Eau, 0, 23, 247-273.	0.2	65
38	Future changes in precipitation and impacts on extreme streamflow over Amazonian sub-basins. Environmental Research Letters, 2013, 8, 014035.	2.2	64
39	Inundations in the Mamoré basin (south-western Amazonia, Bolivia) and sea-surface temperature in the Pacific and Atlantic Oceans. Journal of Hydrology, 2005, 302, 223-238.	2.3	62
40	From source to sink: Preserving the cosmogenic ¹⁰ Be-derived denudation rate signal of the Bolivian Andes in sediment of the Beni and Mamoré foreland basins. Earth and Planetary Science Letters, 2009, 288, 463-474.	1.8	61
41	Trends in rainfall and temperature in the Peruvian Amazonian Andes basin over the last 40 years (1965-2007). Hydrological Processes, 2013, 27, 2944-2957.	1.1	61
42	A Comparative Analysis of TRMM Rain Gauge Data Merging Techniques at the Daily Time Scale for Distributed Rainfall-Runoff Modeling Applications. Journal of Hydrometeorology, 2015, 16, 2153-2168.	0.7	60
43	Amazon River dissolved load: temporal dynamics and annual budget from the Andes to the ocean. Environmental Science and Pollution Research, 2016, 23, 11405-11429.	2.7	60
44	Review of erosion dynamics along the major N-S climatic gradient in Chile and perspectives. Geomorphology, 2018, 300, 45-68.	1.1	60
45	Characterisation of river bed and suspended sediments in the Rio Madeira drainage basin (Bolivian) Tj ETQq1 1 0.784314 rgBT / Overl 0.6 59	0.6	59
46	Recycling of Amazon floodplain sediment quantified by cosmogenic ²⁶ Al and ¹⁰ Be. Geology, 2011, 39, 467-470.	2.0	58
47	Wavelet analysis of Amazon hydrological regime variability. Geophysical Research Letters, 2004, 31, .	1.5	57
48	Floodplain ecosystem processes. Geophysical Monograph Series, 2009, , 525-541.	0.1	54
49	Trace element geochemistry in the upper Amazon drainage basin (Bolivia). Chemical Geology, 1999, 157, 319-334.	1.4	50
50	Discharge determination by Acoustic Doppler Current Profilers (ADCP): a moving bottom error correction method and its application on the River Amazon at Ábidos. Hydrological Sciences Journal, 2000, 45, 911-924.	1.2	50
51	Water level dynamics of Amazon wetlands at the watershed scale by satellite altimetry. International Journal of Remote Sensing, 2012, 33, 3323-3353.	1.3	50
52	Hydroclimatology of the Upper Madeira River basin: spatio-temporal variability and trends. Hydrological Sciences Journal, 2017, 62, 911-927.	1.2	47
53	Suspended sediment dynamics in the Amazon River of Peru. Journal of South American Earth Sciences, 2013, 44, 75-84.	0.6	46
54	L'Amazonie Ábidos (Brésil): Étude statistique des débits et bilan hydrologique. Hydrological Sciences Journal, 2002, 47, 321-333.	1.2	45

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55	Specific suspended sediment yields of the Andean rivers of Chile and their relationship to climate, slope and vegetation. <i>Hydrological Sciences Journal</i> , 2010, 55, 1190-1205.	1.2	45
56	Iron isotope composition of the bulk waters and sediments from the Amazon River Basin. <i>Chemical Geology</i> , 2014, 377, 1-11.	1.4	45
57	Holocene changes in monsoon precipitation in the Andes of NE Peru based on $\delta^{18}O$ speleothem records. <i>Quaternary Science Reviews</i> , 2016, 146, 274-287.	1.4	44
58	Hydrological modelling and water balance of the Negro River basin: evaluation based on <i>in situ</i> and spatial altimetry data. <i>Hydrological Processes</i> , 2010, 24, 3219-3236.	1.1	43
59	Characteristics of organic matter in the mixing zone of the Rio Negro and Rio Solimões of the Amazon River. <i>Hydrological Processes</i> , 2003, 17, 1393-1404.	1.1	42
60	Projected increases in the annual flood pulse of the Western Amazon. <i>Environmental Research Letters</i> , 2016, 11, 014013.	2.2	42
61	A reassessment of the suspended sediment load in the Madeira River basin from the Andes of Peru and Bolivia to the Amazon River in Brazil, based on 10 years of data from the HYBAM monitoring programme. <i>Journal of Hydrology</i> , 2017, 553, 35-48.	2.3	42
62	Sediment budget of the Napo River, Amazon basin, Ecuador and Peru. <i>Hydrological Processes</i> , 2009, 23, 3509-3524.	1.1	41
63	Channel and floodplain sediment dynamics in a reach of the tropical meandering Rio Beni (Bolivian) Tj ETQq1 1 0.784314 rgBT /Overlo	1.2	41
64	Was the 2009 flood the most hazardous or the largest ever recorded in the Amazon?. <i>Geomorphology</i> , 2014, 215, 99-105.	1.1	41
65	A test of the cosmogenic ^{10}Be (meteoric) / ^{9}Be proxy for simultaneously determining basin-wide erosion rates, denudation rates, and the degree of weathering in the Amazon basin. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2498-2528.	1.0	41
66	The integration of field measurements and satellite observations to determine river solid loads in poorly monitored basins. <i>Journal of Hydrology</i> , 2012, 444-445, 221-228.	2.3	40
67	Assessment of climate change impacts on the hydrology of the Peruvian Amazon-Andes basin. <i>Hydrological Processes</i> , 2011, 25, 3721-3734.	1.1	37
68	Climatic control on eastern Andean denudation rates (Central Cordillera from Ecuador to Bolivia). <i>Journal of South American Earth Sciences</i> , 2013, 44, 85-93.	0.6	35
69	A critical assessment of the JULES land surface model hydrology for humid tropical environments. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1113-1132.	1.9	35
70	The impact of extreme El Niño events on modern sediment transport along the western Peruvian Andes (1968-2012). <i>Scientific Reports</i> , 2017, 7, 11947.	1.6	35
71	River Mixing in the Amazon as a Driver of Concentration-Discharge Relationships. <i>Water Resources Research</i> , 2017, 53, 8660-8685.	1.7	33
72	Precipitation changes over the eastern Bolivian Andes inferred from speleothem ($\delta^{18}O$) records for the last 1400 years. <i>Earth and Planetary Science Letters</i> , 2018, 494, 124-134.	1.8	33

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73	Evidence for the control of the geochemistry of Amazonian floodplain sediments by stratification of suspended sediments in the Amazon. <i>Chemical Geology</i> , 2014, 387, 101-110.	1.4	32
74	Speleothem records decadal to multidecadal hydroclimate variations in southwestern Morocco during the last millennium. <i>Earth and Planetary Science Letters</i> , 2017, 476, 1-10.	1.8	30
75	Regional pattern of riverine dissolved organic carbon in the Amazon drainage basin of Bolivia. <i>Limnology and Oceanography</i> , 1994, 39, 452-458.	1.6	29
76	Nature and properties of suspended solids in the Amazon Basin. <i>Bulletin - Societe Geologique De France</i> , 2002, 173, 67-75.	0.9	29
77	Watershed delineation for the Amazon sub-basin system using GTOPO30 DEM and a drainage network extracted from JERS SAR images. <i>Hydrological Processes</i> , 2009, 23, 3173-3185.	1.1	29
78	Fluxo de sedimentos em suspensão nos rios da Amazônia. <i>Revista Brasileira De Geociências</i> , 2011, 41, 566-576.	0.1	29
79	Cl and Na Fluxes in an Andean Foreland Basin of the Peruvian Amazon: An Anthropogenic Impact Evidence. <i>Aquatic Geochemistry</i> , 2014, 20, 613-637.	1.5	27
80	Calibration of speleothem $\delta^{18}O$ records against hydroclimate instrumental records in Central Brazil. <i>Global and Planetary Change</i> , 2016, 139, 151-164.	1.6	27
81	Suspended sediment and dissolved load budgets of two Amazonian rivers from the Guiana Shield: Maroni River at Langa Tabiki and Oyapock River at Saut Maripa (French Guiana). <i>Hydrological Processes</i> , 2010, 24, 1433-1445.	1.1	24
82	Fluxes of dissolved and colloidal organic carbon, along the Purus and Amazonas rivers (Brazil). <i>Science of the Total Environment</i> , 1999, 229, 53-64.	3.9	23
83	Hydrological variability in the Amazon drainage basin and African tropical basins. <i>Hydrological Processes</i> , 2009, 23, 3245-3252.	1.1	21
84	An index concentration method for suspended load monitoring in large rivers of the Amazonian foreland. <i>Earth Surface Dynamics</i> , 2019, 7, 515-536.	1.0	21
85	Presence of the extinct lizard <i>Paradracaena</i> (Teiidae) in the middle Miocene of the Peruvian Amazon. <i>Journal of Vertebrate Paleontology</i> , 2009, 29, 594-598.	0.4	20
86	Effects of climatic variability and deforestation on surface water regimes. <i>Geophysical Monograph Series</i> , 2009, , 543-553.	0.1	18
87	Sediment production and transport from in situ-produced cosmogenic ^{10}Be and river loads in the Napo River basin, an upper Amazon tributary of Ecuador and Peru. <i>Journal of South American Earth Sciences</i> , 2011, 31, 45-53.	0.6	18
88	Déboisement amazonien: son influence sur le débit de l'Amazone à Bidos (Brésil). <i>Revue Des Sciences De L'Eau</i> , 0, 21, 59-72.	0.2	17
89	Les flux de matières dissoutes et particulaires exportés des Andes par le Rio Beni (Amazonie) Tj ETQq1 1 0.784314 rgBT/Overlook	2.2	17
90	Yields of suspended sediment and dissolved solids from the Andean basins of Ecuador. <i>Hydrological Sciences Journal</i> , 2013, 58, 1478-1494.	1.2	16

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91	Tectonic control of erosion and sedimentation in the Amazon Basin of Bolivia. <i>Hydrological Processes</i> , 2009, 23, 3225-3229.	1.1	15
92	Hydrodynamic modelling of the Amazon River: Factors of uncertainty. <i>Journal of South American Earth Sciences</i> , 2013, 44, 94-103.	0.6	15
93	The Significance of Suspended Sediment Transport Determination on the Amazonian Hydrological Scenario. , 0, , .		14
94	Fluctuations in the monthly discharge of Guyana Shield rivers, related to Pacific and Atlantic climate variability. <i>Hydrological Sciences Journal</i> , 2012, 57, 1081-1091.	1.2	14
95	Erosion in the Chilean Andes between 27°S and 39°S: tectonic, climatic and geomorphic control. <i>Geological Society Special Publication</i> , 2015, 399, 401-418.	0.8	14
96	Measuring the discharge of the Amazon River using Doppler technology (Manacapuru, Amazonas,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.1	13
97	Pertinent spatio-temporal scale of observation to understand suspended sediment yield control factors in the Andean region: the case of the Santa River (Peru). <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4641-4657.	1.9	13
98	Comparison between Silicate Weathering and Physical Erosion Rates in Andean Basins of the Amazon River. <i>Procedia Earth and Planetary Science</i> , 2014, 10, 275-279.	0.6	12
99	A 2700calyr BP extreme flood event revealed by sediment accumulation in Amazon floodplains. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 415, 175-182.	1.0	11
100	A 6,000+ year-old specimen of a spectacled bear from an Andean cave in Peru. <i>Ursus</i> , 2009, 20, 63-68.	0.3	10
101	Reply to comment of Legates et al.. <i>Advances in Water Resources</i> , 2005, 28, 1316-1319.	1.7	9
102	Crevassing and capture by floodplain drains as a cause of partial avulsion and Anastomosis (lower Rio) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	9
103	Temporal variability and annual budget of inorganic dissolved matter in Andean Pacific Rivers located along a climate gradient from northern Ecuador to southern Peru. <i>Comptes Rendus - Geoscience</i> , 2018, 350, 76-87.	0.4	7
104	Control of seasonal and inter-annual rainfall distribution on the Strontium-Neodymium isotopic compositions of suspended particulate matter and implications for tracing ENSO events in the Pacific coast (Tumbes basin, Peru). <i>Global and Planetary Change</i> , 2020, 185, 103080.	1.6	5
105	First record of OSL-dated fluvial sands in a tropical Andean cave reveals rapid late Quaternary tectonic uplift. <i>Terra Nova</i> , 2021, 33, 262-273.	0.9	4
106	Flow and sediment dynamics of large rivers. <i>Hydrological Processes</i> , 2009, 23, 3127-3130.	1.1	3
107	Spatial-temporal variation of dissolved inorganic material in the Amazon basin. <i>Acta Amazonica</i> , 2015, 45, 175-186.	0.3	3
108	Hydrologie et production agricole dans le nord-ouest de l'Amazonie. <i>Bulletin De L'Association De Geographes Francais</i> , 2016, 93, 270-286.	0.0	2

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109	How plants of the Amazonian floodplain (Brazil) can affect the geochemical status of trace elements in the Amazon River mainstream?. European Physical Journal Special Topics, 2003, 107, 119-126.	0.2	1
110	Uncertainty in Suspended Sediment Load Estimates for Mountain Rivers. Case of Study of Central Andes in Peru. , 2013, , .		1
111	CalibraÃ§Ã£o e ValidaÃ§Ã£o de Modelo HidrolÃ³gico com ObservaÃ§Ãµes In Situ, Altimetria e Gravimetria Espaciais. Revista Brasileira De Recursos Hidricos, 2011, 16, 29-45.	0.5	1
112	Quantifying sediment discharge from the Bolivian Andes into the Beni foreland basin from cosmogenic ¹⁰ Be-derived denudation rates. Revista Brasileira De GeociÃªncias, 2011, 41, 629-641.	0.1	1