

# 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	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
2	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
3	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
4	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
5	Review of erosion dynamics along the major N-S climatic gradient in Chile and perspectives. <i>Geomorphology</i> , 2018, 300, 45-68.	1.1	60
6	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
7	Hydroclimatology of the Upper Madeira River basin: spatio-temporal variability and trends. <i>Hydrological Sciences Journal</i> , 2017, 62, 911-927.	1.2	47
8	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
9	River Mixing in the Amazon as a Driver of Concentration-Discharge Relationships. <i>Water Resources Research</i> , 2017, 53, 8660-8685.	1.7	33
10	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
11	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
12	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
13	Projected increases in the annual flood pulse of the Western Amazon. <i>Environmental Research Letters</i> , 2016, 11, 014013.	2.2	42
14	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
15	Amazon River dissolved load: temporal dynamics and annual budget from the Andes to the ocean. <i>Environmental Science and Pollution Research</i> , 2016, 23, 11405-11429.	2.7	60
16	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
17	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
18	Spatial-temporal variation of dissolved inorganic material in the Amazon basin. <i>Acta Amazonica</i> , 2015, 45, 175-186.	0.3	3

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19	Erosion in the Chilean Andes between 27°S and 39°S: tectonic, climatic and geomorphic control. Geological Society Special Publication, 2015, 399, 401-418.	0.8	14
20	A Comparative Analysis of TRMM's 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
21	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. Climate of the Past, 2014, 10, 1967-1981.	1.3	67
22	A Comparative Performance Analysis of TRMM 3B42 (TMPA) Versions 6 and 7 for Hydrological Applications over Andean-Amazon River Basins. Journal of Hydrometeorology, 2014, 15, 581-592.	0.7	149
23	Cl and Na Fluxes in an Andean Foreland Basin of the Peruvian Amazon: An Anthropogenic Impact Evidence. Aquatic Geochemistry, 2014, 20, 613-637.	1.5	27
24	The extreme 2014 flood in south-western Amazon basin: the role of tropical-subtropical South Atlantic SST gradient. Environmental Research Letters, 2014, 9, 124007.	2.2	152
25	A 2700calyr BP extreme flood event revealed by sediment accumulation in Amazon floodplains. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 415, 175-182.	1.0	11
26	Comparison between Silicate Weathering and Physical Erosion Rates in Andean Basins of the Amazon River. Procedia Earth and Planetary Science, 2014, 10, 275-279.	0.6	12
27	Evidence for the control of the geochemistry of Amazonian floodplain sediments by stratification of suspended sediments in the Amazon. Chemical Geology, 2014, 387, 101-110.	1.4	32
28	Iron isotope composition of the bulk waters and sediments from the Amazon River Basin. Chemical Geology, 2014, 377, 1-11.	1.4	45
29	Was the 2009 flood the most hazardous or the largest ever recorded in the Amazon?. Geomorphology, 2014, 215, 99-105.	1.1	41
30	Trends in rainfall and temperature in the Peruvian Amazon-Andes basin over the last 40 years (1965-2007). Hydrological Processes, 2013, 27, 2944-2957.	1.1	61
31	Suspended sediment dynamics in the Amazon River of Peru. Journal of South American Earth Sciences, 2013, 44, 75-84.	0.6	46
32	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
33	Yields of suspended sediment and dissolved solids from the Andean basins of Ecuador. Hydrological Sciences Journal, 2013, 58, 1478-1494.	1.2	16
34	Slope and climate variability control of erosion in the Andes of central Chile. Geology, 2013, 41, 195-198.	2.0	103
35	Hydrodynamic modelling of the Amazon River: Factors of uncertainty. Journal of South American Earth Sciences, 2013, 44, 94-103.	0.6	15
36	A study of sediment transport in the Madeira River, Brazil, using MODIS remote-sensing images. Journal of South American Earth Sciences, 2013, 44, 45-54.	0.6	79

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37	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
38	The Major Floods in the Amazonas River and Tributaries (Western Amazon Basin) during the 1970â€“2012 Period: A Focus on the 2012 Flood*. <i>Journal of Hydrometeorology</i> , 2013, 14, 1000-1008.	0.7	118
39	Uncertainty in Suspended Sediment Load Estimates for Mountain Rivers. Case of Study of Central Andes in Peru. , 2013, , .		1
40	Future changes in precipitation and impacts on extreme streamflow over Amazonian sub-basins. <i>Environmental Research Letters</i> , 2013, 8, 014035.	2.2	64
41	Intensification of the Amazon hydrological cycle over the last two decades. <i>Geophysical Research Letters</i> , 2013, 40, 1729-1733.	1.5	284
42	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
43	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
44	From drought to flooding: understanding the abrupt 2010â€“11 hydrological annual cycle in the Amazonas River and tributaries. <i>Environmental Research Letters</i> , 2012, 7, 024008.	2.2	67
45	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
46	Oxygen isotopes in tree rings are a good proxy for Amazon precipitation and El NiÃ±o-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
47	Basin-scale analysis of rainfall and runoff in Peru (1969â€“2004): Pacific, Titicaca and Amazonas drainages. <i>Hydrological Sciences Journal</i> , 2012, 57, 625-642.	1.2	78
48	Water level dynamics of Amazon wetlands at the watershed scale by satellite altimetry. <i>International Journal of Remote Sensing</i> , 2012, 33, 3323-3353.	1.3	50
49	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
50	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
51	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
52	Climate variability and extreme drought in the upper SolimÃ±es River (western Amazon Basin): Understanding the exceptional 2010 drought. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	141
53	Chemical weathering and atmospheric/soil CO <sub>2</sub> uptake in the Andean and Foreland Amazon basins. <i>Chemical Geology</i> , 2011, 287, 1-26.	1.4	121
54	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

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55	Sediment production and transport from in situ-produced cosmogenic $^{10}\text{Be}$ 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
56	Assessment of climate change impacts on the hydrology of the Peruvian Amazon's Andes basin. <i>Hydrological Processes</i> , 2011, 25, 3721-3734.	1.1	37
57	Recycling of Amazon floodplain sediment quantified by cosmogenic $^{26}\text{Al}$ and $^{10}\text{Be}$ . <i>Geology</i> , 2011, 39, 467-470.	2.0	58
58	Calibração e Validação de Modelo Hidrológico com Observações In Situ, Altimetria e Gravimetria Espaciais. <i>Revista Brasileira De Recursos Hidricos</i> , 2011, 16, 29-45.	0.5	1
59	Fluxo de sedimentos em suspensão nos rios da Amazônia. <i>Revista Brasileira De Geociências</i> , 2011, 41, 566-576.	0.1	29
60	Quantifying sediment discharge from the Bolivian Andes into the Beni foreland basin from cosmogenic $^{10}\text{Be}$ -derived denudation rates. <i>Revista Brasileira De Geociências</i> , 2011, 41, 629-641.	0.1	1
61	Channel and floodplain sediment dynamics in a reach of the tropical meandering Rio Beni (Bolivian) Tj ETQq1 1 0.784314 rgBT /Overlock 1.2 41		
62	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
63	Hydrological modelling and water balance of the Negro River basin: evaluation based on in situ and spatial altimetry data. <i>Hydrological Processes</i> , 2010, 24, 3219-3236.	1.1	43
64	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
65	Contrasting regional discharge evolutions in the Amazon basin (1974-2004). <i>Journal of Hydrology</i> , 2009, 375, 297-311.	2.3	155
66	Measuring the discharge of the Amazon River using Doppler technology (Manacapuru, Amazonas,) Tj ETQq0 0 0 rgBT /Overlock 1.1 13 10 Tf 50		
67	Sea-tide effects on flows in the lower reaches of the Amazon River. <i>Hydrological Processes</i> , 2009, 23, 3141-3150.	1.1	66
68	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
69	Tectonic control of erosion and sedimentation in the Amazon Basin of Bolivia. <i>Hydrological Processes</i> , 2009, 23, 3225-3229.	1.1	15
70	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
71	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
72	Hydrological variability in the Amazon drainage basin and African tropical basins. <i>Hydrological Processes</i> , 2009, 23, 3245-3252.	1.1	21

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73	Flow and sediment dynamics of large rivers. <i>Hydrological Processes</i> , 2009, 23, 3127-3130.	1.1	3
74	Sediment budget of the Napo River, Amazon basin, Ecuador and Peru. <i>Hydrological Processes</i> , 2009, 23, 3509-3524.	1.1	41
75	Spatio-temporal rainfall variability in the Amazon basin countries (Brazil, Peru, Bolivia, Colombia, and) <i>Tj ETQq1 1 0,784314 rgBT /Ov</i>	1.5	460
76	From source to sink: Preserving the cosmogenic <sup>10</sup> Be-derived denudation rate signal of the Bolivian Andes in sediment of the Beni and Mamoré foreland basins. <i>Earth and Planetary Science Letters</i> , 2009, 288, 463-474.	1.8	61
77	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
78	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
79	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
80	Floodplain ecosystem processes. <i>Geophysical Monograph Series</i> , 2009, , 525-541.	0.1	54
81	Effects of climatic variability and deforestation on surface water regimes. <i>Geophysical Monograph Series</i> , 2009, , 543-553.	0.1	18
82	Floodplain hydrology in an Amazon floodplain lake (Lago Grande de Curuaã). <i>Journal of Hydrology</i> , 2008, 349, 18-30.	2.3	157
83	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
84	Heterogeneous Distribution of Rainfall and Discharge Regimes in the Ecuadorian Amazon Basin. <i>Journal of Hydrometeorology</i> , 2007, 8, 1364-1381.	0.7	78
85	Clay mineral composition of river sediments in the Amazon Basin. <i>Catena</i> , 2007, 71, 340-356.	2.2	157
86	Temporal dynamics of water and sediment exchanges between the Curuaã-floodplain and the Amazon River, Brazil. <i>Journal of Hydrology</i> , 2007, 335, 140-156.	2.3	112
87	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
88	Geomorphic Controls on Andean Denudation Rates. <i>Journal of Geology</i> , 2006, 114, 85-99.	0.7	179
89	Reply to comment of Legates et al.. <i>Advances in Water Resources</i> , 2005, 28, 1316-1319.	1.7	9
90	Inundations in the Mamoré basin (south-western Amazonia-Bolivia) and sea-surface temperature in the Pacific and Atlantic Oceans. <i>Journal of Hydrology</i> , 2005, 302, 223-238.	2.3	62

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91	Recent advances in wavelet analyses: Part 2 "Amazon, Parana, Orinoco and Congo discharges time scale variability. Journal of Hydrology, 2005, 314, 289-311.	2.3	191
92	The use of Doppler technology for suspended sediment discharge determination in the River Amazon / L'utilisation des techniques Doppler pour la détermination du transport solide de l'Amazonie. Hydrological Sciences Journal, 2004, 49, 143-153.	1.2	81
93	Evolution du débit de l'Amazonie "bidos de 1903 à 1999 / Evolution of the River Amazon's discharge at "bidos from 1903 to 1999. Hydrological Sciences Journal, 2004, 49, 85-97.	1.2	77
94	Evidence for global runoff increase related to climate warming. Advances in Water Resources, 2004, 27, 631-642.	1.7	522
95	Wavelet analysis of Amazon hydrological regime variability. Geophysical Research Letters, 2004, 31, .	1.5	57
96	Carbon sedimentation at Lago Grande de Curuai, a floodplain lake in the low Amazon region: insights into sedimentation rates. Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 214, 27-40.	1.0	88
97	Exportation of organic carbon from the Amazon River and its main tributaries. Hydrological Processes, 2003, 17, 1329-1344.	1.1	161
98	Characteristics of organic matter in the mixing zone of the Rio Negro and Rio Solimões of the Amazon River. Hydrological Processes, 2003, 17, 1393-1404.	1.1	42
99	Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation. Nature, 2003, 425, 493-497.	13.7	275
100	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
101	Nature and properties of suspended solids in the Amazon Basin. Bulletin - Societe Geologique De France, 2002, 173, 67-75.	0.9	29
102	L'Amazonie "bidos (Brésil): Étude statistique des débits et bilan hydrologique. Hydrological Sciences Journal, 2002, 47, 321-333.	1.2	45
103	Interannual rainfall variability in the Amazon basin and sea-surface temperatures in the equatorial Pacific and the tropical Atlantic Oceans. International Journal of Climatology, 2002, 22, 1663-1686.	1.5	199
104	Discharge determination by Acoustic Doppler Current Profilers (ADCP): a moving bottom error correction method and its application on the River Amazon at "bidos. Hydrological Sciences Journal, 2000, 45, 911-924.	1.2	50
105	Characterisation of river bed and suspended sediments in the Rio Madeira drainage basin (Bolivian) Tj ETQq1 1 0.784314 rgBT / Overlock	0.6	59
106	Trace element geochemistry in the upper Amazon drainage basin (Bolivia). Chemical Geology, 1999, 157, 319-334.	1.4	50
107	Fluxes of dissolved and colloidal organic carbon, along the Purus and Amazonas rivers (Brazil). Science of the Total Environment, 1999, 229, 53-64.	3.9	23
108	Regional pattern of riverine dissolved organic carbon in the Amazon drainage basin of Bolivia. Limnology and Oceanography, 1994, 39, 452-458.	1.6	29

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109	Les flux de mati�res dissoutes et particulaires export�es des Andes par le Rio B�ni (Amazonie) Tj ETQq1 1 0.784314 rgBT/Overlook	2.2	17
110	D�boisement amazonien�: son influence sur le d�bit de lâ€™Amazone � �bidos (Br�sil). Revue Des Sciences De L'Eau, 0, 21, 59-72.	0.2	17
111	Les apports en eau de l'Amazone � l'Oc�an Atlantique. Revue Des Sciences De L'Eau, 0, 23, 247-273.	0.2	65
112	The Significance of Suspended Sediment Transport Determination on the Amazonian Hydrological Scenario. , 0, , .		14