Jacobus P Le Roux

List of Publications by Year
in descending order

116	1,996	218381	315357
papers	citations	26 h-index	38 g-index

119	119	119	1817
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neoproterozoic to Early Cambrian Crustal Evolution of the Pan-African Saldania Belt, South Africa. Precambrian Research, 1999, 97, 303-323.	1.2	101
2	Sediment transport patterns determined from grain size parameters: Overview and state of the art. Sedimentary Geology, 2007, 202, 473-488.	1.0	91
3	An alternative approach to the identification of net sediment transport paths based on grain-size trends. Sedimentary Geology, 1994, 94, 97-107.	1.0	74
4	Repeated mass strandings of Miocene marine mammals from Atacama Region of Chile point to sudden death at sea. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133316.	1.2	63
5	Grains in motion: A review. Sedimentary Geology, 2005, 178, 285-313.	1.0	62
6	Hydraulic behavior of tsunami backflows: insights from their modern and ancient deposits. Environmental Geology, 2005, 49, 65-75.	1.2	58
7	A review of Tertiary climate changes in southern South America and the Antarctic Peninsula. Part 2: continental conditions. Sedimentary Geology, 2012, 247-248, 21-38.	1.0	54
8	Analysis of sediment transport paths using grain-size parameters. Computers and Geosciences, 2002, 28, 717-721.	2.0	51
9	Unraveling the Peruvian Phase of the Central Andes: stratigraphy, sedimentology and geochronology of the Salar de Atacama Basin (22Â°30â€“23Â°S), northern Chile. Basin Research, 2016, 28, 365-392.	1.3	50
10	Rapid and major coastal subsidence during the late Miocene in south-central Chile. Journal of South American Earth Sciences, 2008, 25, 157-175.	0.6	49
11	A Pliocene mega-tsunami deposit and associated features in the Ranquil Formation, southern Chile. Sedimentary Geology, 2008, 203, 164-180.	1.0	43
12	Sedimentological processes in a scarp-controlled rocky shoreline to upper continental slope environment, as revealed by unusual sedimentary features in the Neogene Coquimbo Formation, north-central Chile. Sedimentary Geology, 2004, 165, 67-92.	1.0	40
13	Bay sedimentation as controlled by regional crustal behaviour, local tectonics and eustatic sea-level changes: Coquimbo Formation (Mioceneâ€“Pliocene), Bay of Tongoy, central Chile. Sedimentary Geology, 2006, 184, 133-153.	1.0	40
14	Neogene-Quaternary coastal and offshore sedimentation in north central Chile: Record of sea-level changes and implications for Andean tectonism. Journal of South American Earth Sciences, 2005, 19, 83-98.	0.6	39
15	Settling velocity of spheres: a new approach. Sedimentary Geology, 1992, 81, 11-16.	1.0	38
16	An extension of the Airy theory for linear waves into shallow water. Coastal Engineering, 2008, 55, 295-301.	1.7	38
17	Sedimentology of the RÄ±Ìmac-ChillÃ³n alluvial fan at Lima, Peru, as related to Plio-Pleistocene sea-level changes, glacial cycles and tectonics. Journal of South American Earth Sciences, 2000, 13, 499-510.	0.6	37
18	A review of Tertiary climate changes in southern South America and the Antarctic Peninsula. Part 1: Oceanic conditions. Sedimentary Geology, 2012, 247-248, 1-20.	1.0	35

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19	Net sediment transport patterns inferred from grain-size trends, based upon definition of â€œtransport vectorsâ€â€”comment. Sedimentary Geology, 1994, 90, 153-156.	1.0	34
20	Paleomagnetism and tectonics of the South Shetland Islands and the northern Antarctic Peninsula. Earth and Planetary Science Letters, 2011, 302, 299-313.	1.8	34
21	Can Dispersive Pressure Cause Inverse Grading in Grain Flows?: Discussion. Journal of Sedimentary Research, 2003, 73, 333-334.	0.8	32
22	A simple method to determine breaker height and depth for different deepwater wave height/length ratios and sea floor slopes. Coastal Engineering, 2007, 54, 271-277.	1.7	32
23	Determining the Channel Sinuosity of Ancient Fluvial Systems from Paleocurrent Data. Journal of Sedimentary Research, 1992, Vol. 62, .	0.8	31
24	Manganese nodules in the Miocene BahÃa Inglesa Formation, north-central Chile: Petrography, geochemistry, genesis and palaeoceanographic significance. Sedimentary Geology, 2009, 217, 128-139.	1.0	31
25	Sedimentologic development of a Late Oligoceneâ€“Miocene forearc embayment, Valdivia Basin Complex, southern Chile. Sedimentary Geology, 2000, 130, 27-44.	1.0	30
26	Nuevo esquema estratigrÃ¡fico para los depÃ³sitos marinos mio-pliocenos del Ã¡rea de Navidad (33Âº00'-34Âº30'S), Chile central. Andean Geology, 2006, 33, .	0.5	29
27	Tectonic events reflected by palaeocurrents, zircon geochronology, and palaeobotany in the Sierra Baguales of Chilean Patagonia. Tectonophysics, 2017, 695, 76-99.	0.9	25
28	Neoselachians and Chimaeriformes (Chondrichthyes) from the latest Cretaceousâ€“Paleogene of Sierra Baguales, southernmost Chile. Chronostratigraphic, paleobiogeographic and paleoenvironmental implications. Journal of South American Earth Sciences, 2013, 48, 13-30.	0.6	24
29	Settling velocity of ellipsoidal grains as related to shape entropy. Sedimentary Geology, 1996, 101, 15-20.	1.0	23
30	Palaeoredox conditions and sequence stratigraphy of the Cretaceous storm-dominated, mixed siliciclastic-carbonate ramp in the Eastern Cordillera Basin (Colombia): Evidence from sedimentary geochemical proxies and facies analysis. Sedimentary Geology, 2018, 372, 1-24.	1.0	23
31	Paleoclimatic significance of lacustrine microbialites: A stable isotope case study of two lakes at Torres del Paine, southern Chile. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 297, 70-82.	1.0	22
32	A Late Eocene age proposal for the Loreto Formation (Brunswick Peninsula, southernmost Chile), based on fossil cartilaginous fishes, paleobotany and radiometric evidence. Andean Geology, 2012, 39, .	0.2	22
33	Aeolian erosion and sand transport over the Mejillones Pampa in the coastal Atacama Desert of northern Chile. Geomorphology, 2010, 120, 312-325.	1.1	21
34	Shape Entropy and Settling Velocity of Natural Grains. Journal of Sedimentary Research, 2002, 72, 363-366.	0.8	20
35	A Hydrodynamic Classification of Grain Shapes. Journal of Sedimentary Research, 2004, 74, 135-143.	0.8	19
36	Pliocene lahar deposits in the Coastal Cordillera of central Chile: Implications for uplift, avalanche deposits, and porphyry copper systems in the Main Andean Cordillera. Journal of South American Earth Sciences, 2006, 20, 369-381.	0.6	19

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37	Genesis of stratiform Uî—¸Mo deposits in the Karoo Basin of South Africa. Ore Geology Reviews, 1993, 7, 485-509.	1.1	18
38	Entrainment threshold of natural grains in liquids determined empirically from dimensionless settling velocities and other measures of grain size. Sedimentary Geology, 1998, 119, 17-23.	1.0	17
39	Determining the Neogene behavior of the Nazca plate by geohistory analysis. Geology, 2005, 33, 165.	2.0	17
40	Geotectonic evolution of the Bransfield Basin, Antarctic Peninsula: insights from analogue models. Antarctic Science, 2008, 20, 185-196.	0.5	17
41	Lithostratigraphy and depositional environment of the Permian Nowra Sandstone in the southwestern Sydney Basin, Australia. Australian Journal of Earth Sciences, 1994, 41, 191-203.	0.4	16
42	A spreadsheet template for determining sediment transport vectors from grain-size parameters. Computers and Geosciences, 1994, 20, 433-440.	2.0	16
43	Late Cretaceous alkaline saline lake complexes of the Kalahari Group in northern Botswana. Journal of African Earth Sciences, 1995, 20, 7-15.	0.9	15
44	Paralic parasequences associated with Eocene sea-level oscillations in an active margin setting: Trihueco Formation of the Arauco Basin, Chile. Sedimentary Geology, 1997, 110, 257-276.	1.0	15
45	A simple method to predict the threshold of particle transport under oscillatory waves. Sedimentary Geology, 2001, 143, 59-70.	1.0	15
46	An integrated law of the wall for hydrodynamically transitional flow over plane beds. Sedimentary Geology, 2004, 163, 311-321.	1.0	15
47	Oroclinal bending of the Juan FernÃ¡ndez Ridge suggested by geohistory analysis of the BahÃa Inglesa Formation, north-central Chile. Sedimentary Geology, 2016, 333, 32-49.	1.0	15
48	The analysis of termite hills to locate uranium mineralization in the Karoo Basin of South Africa. Journal of Geochemical Exploration, 1991, 41, 341-347.	1.5	14
49	Comparison of Sphericity Indices as Related to the Hydraulic Equivalence of Settling Grains. Journal of Sedimentary Research, 1997, Vol. 67, .	0.8	14
50	Seasonal sediment transport pathways in Lirquen Harbor, Chile, as inferred from grain-size trends. Investigaciones Marinas, 2002, 30, 3.	0.1	13
51	Application of the Hofmann shape entropy to determine the settling velocity of irregular, semi-ellipsoidal grains. Sedimentary Geology, 2002, 149, 237-243.	1.0	13
52	Wave friction factor as related to the Shields parameter for steady currents. Sedimentary Geology, 2003, 155, 37-43.	1.0	13
53	A function to determine wavelength from deep into shallow water based on the length of the cnoidal wave at breaking. Coastal Engineering, 2007, 54, 770-774.	1.7	13
54	Stratigraphy, sedimentology, and geothermal reservoir potential of the volcaniclastic Cura-MallÃn succession at Lonquimay, Chile. Journal of South American Earth Sciences, 2017, 77, 1-20.	0.6	13

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55	Tectonic controls on the Maastrichtian-Danian transgression in the Magallanes-Austral foreland basin (Chile): Implications for the growth of the Southern Patagonian Andes. Sedimentary Geology, 2020, 403, 105645.	1.0	13
56	Characteristics of developing waves as a function of atmospheric conditions, water properties, fetch and duration. Coastal Engineering, 2009, 56, 479-483.	1.7	12
57	Preservation of beach ridges due to pedogenic calcrete development in the Tongoy palaeobay, North-Central Chile. Geomorphology, 2011, 132, 234-248.	1.1	12
58	Development of a Pleistocene calcrete over a sequence of marine terraces at Tongoy (north-central) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	11
59	Paleocurrent analysis using Lotus 1-2-3. Computers and Geosciences, 1991, 17, 1465-1468.	2.0	10
60	Heartbeat of a mountain: diagnosing the age of depositional events in the Karoo (Gondwana) Basin from the pulse of the Cape Orogen. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1995, 84, 626-635.	1.3	10
61	Relationship between aerodynamic entrainment threshold and hydrodynamic settling velocity of particles. Sedimentary Geology, 1997, 109, 199-205.	1.0	10
62	Evolution of the Great Tehuelche Paleolake in the Torres del Paine National Park of Chilean Patagonia during the Last Glacial Maximum and Holocene. Andean Geology, 2012, 39, .	0.2	10
63	An Excelâ„¢-VBA programme for the analysis of current velocity profiles. Computers and Geosciences, 2004, 30, 867-879.	2.0	9
64	Depositional environment of Stelloglyphus llicoensis isp. nov.: a new radial trace fossil from the Neogene Ranquil Formation, south-central Chile. Andean Geology, 2008, 35, .	0.5	9
65	An Excel program for computing the dynamic properties of particles in Newtonian fluids. Computers and Geosciences, 1997, 23, 671-675.	2.0	8
66	Sediment entrainment under fully developed waves as a function of water depth, boundary layer thickness, bottom slope and roughness. Sedimentary Geology, 2010, 223, 143-149.	1.0	8
67	Biostratigraphic evidence for dramatic Holocene uplift of Robinson Crusoe Island, Juan FernÃ¡ndez Ridge, SE Pacific Ocean. Biogeosciences, 2015, 12, 1993-2001.	1.3	8
68	Sedimentary processes on a Gilbert-type delta in Lake Llanquihue, southern Chile. Andean Geology, 2005, 32, .	0.5	8
69	Evidence for an Early-Middle Miocene age of the Navidad Formation (central Chile): Paleontological, paleoclimatic and tectonic implications. Andean Geology, 2013, 40, .	0.2	8
70	A rapid method to determine the critical shear stress for sphere entrainment under unidirectional fluid flow. Sedimentary Geology, 1991, 75, 1-3.	1.0	7
71	Monoclines and palaeochannels: evidence for syntectonic sedimentation in the Beaufort Group of the Karoo basin, South Africa. Journal of African Earth Sciences, 1994, 18, 219-226.	0.9	7
72	Profiles of fully developed (Airy) waves in different water depths. Coastal Engineering, 2008, 55, 701-703.	1.7	7

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73	Stratigraphic Implications of Latest Middle Miocene to Earliest Late Miocene Diatoms in the Navidad Formation at Lo Abarca, Central Chile (33Â° 30'S). Ameghiniana, 2010, 47, 527-533.	0.3	7
74	Factors controlling alpine glaciations in the Sierra Baguales Mountain Range of southern Patagonia (50Âº S), inferred from the morphometric analysis of glacial cirques. Andean Geology, 2018, 45, 357.	0.2	7
75	The Angular Deviation of Paleocurrent Directions as Applied to the Calculation of Channel Sinuosities. Journal of Sedimentary Research, 1994, Vol. 64A, .	0.8	6
76	Estimation of Channel Sinuosity from Paleocurrent Data: A Method Using Fractal Geometry: Discussion. Journal of Sedimentary Research, 2001, 71, 1029-1030.	0.8	6
77	WAVECALC: an Excel-VBA spreadsheet to model the characteristics of fully developed waves and their influence on bottom sediments in different water depths. Geo-Marine Letters, 2010, 30, 549-560.	0.5	6
78	Fall velocity of multi-shaped clasts. Journal of Volcanology and Geothermal Research, 2014, 289, 130-139.	0.8	6
79	Persistence of topographic features as a result of non-tectonic processes. Sedimentary Geology, 1994, 89, 33-42.	1.0	5
80	Spreadsheet procedure for modified first-order embedded markov analysis of cyclicity in sediments. Computers and Geosciences, 1994, 20, 17-22.	2.0	5
81	Heartbeat of a mountain: diagnosing the age of depositional events in the Karoo (Gondwana) Basin from the pulse of the Cape Orogen. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1995, 84, 626.	1.3	5
82	DepÃ³sitos burdigalianos de la FormaciÃ³n Santa Cruz en Sierra Baguales, Cuenca Austral (Magallanes): Edad, ambiente de deposiciÃ³n y vertebrados fÃ³siles.. Andean Geology, 2013, 40, .	0.2	5
83	Aerodynamic and Geometric Diameter of Airborne Particles: Discussion. Journal of Sedimentary Research, 2002, 72, 441-442.	0.8	4
84	Comments on â€œTurbulent boundary layer shear flows as an approximation of base surges at Campi Flegrei (Southern Italy), by Dellino et al. (2004)â€• Journal of Volcanology and Geothermal Research, 2005, 141, 331-332.	0.8	4
85	A unified criterion for initiation of sediment motion and inception of sheet flow under water waves â€“ discussion. Sedimentology, 2007, 54, 1447-1448.	1.6	4
86	Estacionalidad de la erosiÃ³n y el transporte eÃ³lico de partÃculas en el desierto costero de Atacama, Chile (23Â°S). Andean Geology, 2009, 36, .	0.2	4
87	A spreadsheet model for integrating stratigraphic and lithofacies maps. Computers and Geosciences, 1991, 17, 1469-1472.	2.0	3
88	Palaeogeographic reconstruction of sandstones using weighted mean grain-size maps, with examples from the Karoo Basin (South Africa) and the Sydney Basin (Australia). Sedimentary Geology, 1992, 81, 173-180.	1.0	3
89	Behavior of spherical grains in fluids: a convenient spreadsheet template for engineers and sedimentologists. Computers and Geosciences, 1992, 18, 1255-1257.	2.0	3
90	A strategy for uranium exploration in the Permo-Triassic Beaufort Group of the main Karoo basin, South Africa. Journal of African Earth Sciences, 1994, 18, 245-253.	0.9	3

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91	Determination of Drag Coefficients in Measuring Particle Diameters: Discussion. Journal of Sedimentary Research, 2005, 75, 520-521.	0.8	3
92	Structure and depositional processes of a gravelly tsunami deposit in a shallow marine setting: Lower Cretaceous Miyako Group, Japanâ€"discussion. Sedimentary Geology, 2007, 201, 485-487.	1.0	3
93	A simple method to determine breaker height and depth for different wave height/length ratios and sea floor slopes â€" Reply to discussion by M.C. Haller and P.C. Catalan. Coastal Engineering, 2008, 55, 185-188.	1.7	3
94	First record of Elasmosaurid Plesiosaurs (Sauropterygia: Plesiosauria) in upper levels of the Dorotea Formation, Late Cretaceous (Maastrichtian), Puerto Natales, Chilean Patagonia. Andean Geology, 2009, 36, .	0.2	3
95	Wave friction factor rediscovered. Geo-Marine Letters, 2012, 32, 29-37.	0.5	3
96	Impacts, Tillites, and the Breakup of Gondwanaland: A Second Discussion. Journal of Geology, 1994, 102, 483-485.	0.7	3
97	Depositos estuarinos en la Formacion Rio Baguales (Chattiano-Aquitaniano), Provincia de Magallanes, Chile.. Andean Geology, 2010, 37, .	0.2	3
98	A comparison of velocity profiles in unidirectional currents and the wave boundary layer: Implications for sediment entrainment. Sedimentary Geology, 2010, 232, 84-90.	1.0	2
99	An Oligocene microthermal forest dominated by Nothofagus in Sierra Baguales, Chilean Patagonia: Response to global cooling and tectonic events. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 528, 1-13.	1.0	2
100	Estacionalidad de la erosion y el transporte eolico de particulas en el desierto costero de Atacama, Chile (23Â°S).. Andean Geology, 2009, 36, .	0.2	2
101	The use of trend surfaces in palaeoenvironmental reconstructions. Palaeogeography, Palaeoclimatology, Palaeoecology, 1994, 111, 185-190.	1.0	1
102	Palaeogeographic reconstruction using composite maps, with case studies from three continents. Palaeogeography, Palaeoclimatology, Palaeoecology, 1997, 131, 51-63.	1.0	1
103	Estimating palaeowind strength from beach deposits - Discussion. Sedimentology, 2004, 51, 669-670.	1.6	1
104	Le Roux, J.P., 2001. A simple method to predict the threshold of particle transport under oscillatory waves. Sedimentary Geology 143 (2001): 59â€"70â€"Reply to discussion. Sedimentary Geology, 2004, 163, 319-322.	1.0	1
105	A function to determine wavelength from deep into shallow water based on the length of the cnoidal wave at breakingâ€"Reply to discussion by T.S. Hedges. Coastal Engineering, 2009, 56, 96-97.	1.7	1
106	The Permo-Triassic Uranium Deposits of Gondwanaland. Geophysical Monograph Series, 0, , 139-146.	0.1	1
107	Reply to Comment of Encinas et al. (2014) on: â€˜Evidence for an Early-Middle Miocene age of the Navidad Formation (central Chile): Paleontological, climatic and tectonic implicationsâ€™ of GutiÃ©rrez et al. (2013, Andean Geology 40 (1): 66-78).. Andean Geology, 2014, 41, .	0.2	1
108	Entrainment threshold of sand- to granule-sized sediments under waves. Sedimentary Geology, 2015, 322, 63-66.	1.0	1

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109	Relict glacial landscape in the Sierra Baguales Mountain Range (50Â°-51Â° S): evidence of glaciation dynamics and types in the eastern foothills of the southern Patagonian Andes. Journal of Mountain Science, 2017, 14, 282-295.	0.8	1
110	Reply to Comment of Finger et al. (2013) on: â€˜Evidence for an Early-Middle Miocene age of the Navidad Formation (central Chile): Paleontological, paleoclimatic and tectonic implicationsâ€™ of GutiÃ©rrez et al. (2013, Andean Geology 40 (1): 66-78). Andean Geology, 2013, 40, .	0.2	1
111	Mesozoic sedimentation on an isolated platform at the eastern entrance to the Strait of Magellan, Tierra del Fuego (Chile). Andean Geology, 2003, 30, .	0.5	1
112	Retort to response by Haller and CatalÃ¡n. Coastal Engineering, 2008, 55, 823-824.	1.7	0
113	Discussion of â€œComparison of Settling-Velocity-based Formulas for Threshold of Sediment Motionâ€•by N.-S. Cheng. Journal of Hydraulic Engineering, 2009, 135, 626-628.	0.7	0
114	Formula for predicting bedload transport rate in oscillatory sheet flows. Coastal Engineering, 2009, 56, 377-379.	1.7	0
115	Analysis of Interfering Fully Developed, Colinear Deepwater Waves. International Journal of Oceanography, 2012, 2012, 1-8.	0.2	0
116	Un anÃ¡lisis crÃtico de las evidencias presentadas para reinterpretar la mega-brecha de Hornitos como un depÃ³sito de flujo de masa generado por el colapso de un acantilado.. Andean Geology, 2015, 42, .	0.2	0