

Jeff Peakall

List of Publications by Year in descending order

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136
papers

5,947
citations

94269

37
h-index

82410

72
g-index

141
all docs

141
docs citations

141
times ranked

3906
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and temporal evolution of an experimental debris flow, exhibiting coupled fluid and particulate phases. <i>Acta Geotechnica</i> , 2022, 17, 965-979.	2.9	5
2	Channel incision into a submarine landslide on a Carboniferous basin margin, San Juan, Argentina: Evidence for the role of knickpoints. <i>Depositional Record</i> , 2022, 8, 628-655.	0.8	3
3	Submarine Channel Mouth Settings: Processes, Geomorphology, and Deposits. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	10
4	Channel-lobe transition zone development in tectonically active settings: Implications for hybrid bed development. <i>Depositional Record</i> , 2022, 8, 829-868.	0.8	12
5	Observations of large-scale coherent structures in gravity currents: implications for flow dynamics. <i>Experiments in Fluids</i> , 2021, 62, 1.	1.1	5
6	Hydrodynamic efficiency in sharks: the combined role of riblets and denticles. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 046008.	1.5	16
7	Unusual intraclast conglomerates in a stormy, hot-house lake: The Early Triassic North China Basin. <i>Sedimentology</i> , 2021, 68, 3385-3404.	1.6	9
8	Evolution from syn-rift carbonates to early post-rift deep-marine intraslope lobes: The role of rift basin physiography on sedimentation patterns. <i>Sedimentology</i> , 2021, 68, 2563-2605.	1.6	13
9	Width variation around submarine channel bends: Implications for sedimentation and channel evolution. <i>Marine Geology</i> , 2021, 437, 106504.	0.9	6
10	Sole marks reveal deep-marine depositional process and environment: Implications for flow transformation and hybrid-event-bed models. <i>Journal of Sedimentary Research</i> , 2021, 91, 986-1009.	0.8	19
11	The effect of Schmidt number on gravity current flows: The formation of large-scale three-dimensional structures. <i>Physics of Fluids</i> , 2021, 33, .	1.6	11
12	Simultaneous velocity and concentration profiling of nuclear waste suspensions in pipe-flow, using ultrasonic Doppler and backscatter analysis. <i>Proceedings of Meetings on Acoustics</i> , 2021, , .	0.3	0
13	Interactions between sediment microbial ecology and physical dynamics drive heterogeneity in contextually similar depositional systems. <i>Limnology and Oceanography</i> , 2020, 65, 2403-2419.	1.6	15
14	TB or not TB: banding in turbidite sandstones. <i>Journal of Sedimentary Research</i> , 2020, 90, 821-842.	0.8	24
15	The Geomorphology of Submarine Channel Systems of the Northern Line Islands Ridge, Central Equatorial Pacific Ocean. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	4
16	An integrated process-based model of flutes and tool marks in deep-water environments: Implications for palaeohydraulics, the Bouma sequence and hybrid event beds. <i>Sedimentology</i> , 2020, 67, 1601-1666.	1.6	48
17	Concentration profiling of a horizontal sedimentation tank utilising a bespoke acoustic backscatter array and CFD simulations. <i>Chemical Engineering Science</i> , 2020, 218, 115560.	1.9	16
18	Influence of Coriolis Force Upon Bottom Boundary Layers in a Large-scale Gravity Current Experiment: Implications for Evolution of Sinuous Deep-water Channel Systems. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015284.	1.0	17

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19	Utilisation of underwater acoustic backscatter systems to characterise nuclear waste suspensions remotely. Proceedings of Meetings on Acoustics, 2020, , .	0.3	1
20	Early burial mud diapirism and its impact on stratigraphic architecture in the Carboniferous of the Shannon Basin, County Clare, Ireland. Sedimentology, 2019, 66, 329-361.	1.6	7
21	Self-sharpening induces jet-like structure in seafloor gravity currents. Nature Communications, 2019, 10, 1381.	5.8	22
22	Integrating field and laboratory approaches for ripple development in mixed sand-clay EPS. Sedimentology, 2019, 66, 2749-2768.	1.6	20
23	Measurement and density normalisation of acoustic attenuation and backscattering constants of arbitrary suspensions within the Rayleigh scattering regime. Applied Acoustics, 2019, 146, 9-22.	1.7	10
24	Architecture and morphodynamics of subcritical sediment waves in an ancient channel-lobe transition zone. Sedimentology, 2018, 65, 2339-2367.	1.6	21
25	Particle Size Distribution Controls the Threshold Between Net Sediment Erosion and Deposition in Suspended Load Dominated Flows. Geophysical Research Letters, 2018, 45, 1443-1452.	1.5	30
26	A new macrofaunal limit in the deep biosphere revealed by extreme burrow depths in ancient sediments. Scientific Reports, 2018, 8, 261.	1.6	6
27	Bedform migration in a mixed sand and cohesive clay intertidal environment and implications for bed material transport predictions. Geomorphology, 2018, 315, 17-32.	1.1	25
28	A novel mixing mechanism in sinuous seafloor channels: Implications for submarine channel evolution. Geomorphology, 2018, 303, 1-12.	1.1	13
29	Deep-water channel-lobe transition zone dynamics: Processes and depositional architecture, an example from the Karoo Basin, South Africa. Bulletin of the Geological Society of America, 2018, 130, 1723-1746.	1.6	64
30	Disconnected submarine lobes as a record of stepped slope evolution over multiple sea-level cycles. , 2018, 14, 1753-1779.		27
31	On the Causes of Pulsing in Continuous Turbidity Currents. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2827-2843.	1.0	23
32	Exhumed lateral margins and increasing flow confinement of a submarine landslide complex. Sedimentology, 2018, 65, 1067-1096.	1.6	18
33	Rainfall-runoff properties of tephra: Simulated effects of grain-size and antecedent rainfall. Geomorphology, 2017, 282, 39-51.	1.1	19
34	Reply to Discussion on "Tectonic and environmental controls on Palaeozoic fluvial environments: reassessing the impacts of early land plants on sedimentation" Journal of the Geological Society, London , https://doi.org/10.1144/jgs2016-063 . Journal of the Geological Society, 2017, 174, 950-952.	0.9	9
35	In situ characterization of mixing and sedimentation dynamics in an impinging jet ballast tank via acoustic backscatter. AIChE Journal, 2017, 63, 2618-2629.	1.8	11
36	The influence of relative fluid depth on initial bedform dynamics in closed, horizontal pipe flow. International Journal of Multiphase Flow, 2017, 93, 1-16.	1.6	7

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37	An integrated model of clastic injectites and basin floor lobe complexes: implications for stratigraphic trap plays. <i>Basin Research</i> , 2017, 29, 816-835.	1.3	24
38	Tectonic and environmental controls on Palaeozoic fluvial environments: reassessing the impacts of early land plants on sedimentation. <i>Journal of the Geological Society</i> , 2017, 174, 393-404.	0.9	43
39	Flow processes and sedimentation in contourite channels on the northwestern South China Sea margin: A joint 3D seismic and oceanographic perspective. <i>Marine Geology</i> , 2017, 393, 176-193.	0.9	21
40	Yield stress dependency on the evolution of bubble populations generated in consolidated soft sediments. <i>AICHE Journal</i> , 2017, 63, 3728-3742.	1.8	22
41	The impact of fine-scale reservoir geometries on streamline flow patterns in submarine lobe deposits using outcrop analogues from the Karoo Basin. <i>Petroleum Geoscience</i> , 2017, 23, 159-176.	0.9	19
42	Concentration profiling using a novel acoustic backscatter system with single transducers pulsed at multiple frequencies. , 2017, , .		0
43	Concentration profiling using a novel acoustic backscatter system with single transducers pulsed at multiple frequencies. , 2017, , .		1
44	Real-time prediction of rain-triggered lahars: incorporating seasonality and catchment recovery. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 2301-2312.	1.5	8
45	Large-scale trials of a real-time acoustic backscatter system for solids concentration measurement during nuclear waste cleanup. , 2016, , .		0
46	Flow dynamics and mixing processes in hydraulic jump arrays: Implications for channel-lobe transition zones. <i>Marine Geology</i> , 2016, 381, 181-193.	0.9	51
47	Characterization of Multiple Hindered Settling Regimes in Aggregated Mineral Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9983-9993.	1.8	33
48	Comparing the transitional behaviour of kaolinite and bentonite suspension flows. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 1911-1921.	1.2	12
49	Flow processes and sedimentation in unidirectionally migrating deep-water channels: From a three-dimensional seismic perspective. <i>Sedimentology</i> , 2016, 63, 645-661.	1.6	35
50	The role of biophysical cohesion on subaqueous bed form size. <i>Geophysical Research Letters</i> , 2016, 43, 1566-1573.	1.5	110
51	Predicting bedforms and primary current stratification in cohesive mixtures of mud and sand. <i>Journal of the Geological Society</i> , 2016, 173, 12-45.	0.9	127
52	Bedform genesis in bedrock substrates: Insights into formative processes from a new experimental approach and the importance of suspension-dominated abrasion. <i>Geomorphology</i> , 2016, 255, 26-38.	1.1	7
53	Sedimentology and architecture of early post-rift submarine lobe deposits; the Los Molles formation, Neuqu�n basin, Argentina. , 2016, , .		0
54	Keynote Speech - Physical Modelling of Submarine Channel Deposits - Towards First Order Prediction. , 2016, , .		0

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55	Capturing flow transformation processes across an uneven seabed in coarse-grained sediment gravity flow deposits. , 2016, , .		0
56	Indicators of propagation direction and relative depth in clastic injectites: Implications for laminar versus turbulent flow processes. Bulletin of the Geological Society of America, 2015, 127, 1816-1830.	1.6	31
57	Development of a real-time acoustic backscatter system for solids concentration measurement during nuclear waste cleanup. , 2015, , .		2
58	Constraints on the functional form of the critical deposition velocity in solid-liquid pipe flow at low solid volume fractions. Chemical Engineering Science, 2015, 126, 759-770.	1.9	11
59	Measurement of particle concentration in horizontal, multiphase pipe flow using acoustic methods: Limiting concentration and the effect of attenuation. Chemical Engineering Science, 2015, 126, 745-758.	1.9	20
60	Numerical Modelling of Turbulent Particle-laden Sonic CO2 Jets with Experimental Validation. Procedia Engineering, 2015, 102, 1621-1629.	1.2	6
61	In situ characterisation of a concentrated colloidal titanium dioxide settling suspension and associated bed development: Application of an acoustic backscatter system. Powder Technology, 2015, 284, 530-540.	2.1	14
62	Particle Concentration Measurement and Flow Regime Identification in Multiphase Pipe Flow Using a Generalised Dual-frequency Inversion Method. Procedia Engineering, 2015, 102, 986-995.	1.2	9
63	Latitudinal variations in submarine channel sedimentation patterns: the role of Coriolis forces. Journal of the Geological Society, 2015, 172, 161-174.	0.9	30
64	Submarine channel flow processes and deposits: A process-product perspective. Geomorphology, 2015, 244, 95-120.	1.1	111
65	Sticky stuff: Redefining bedform prediction in modern and ancient environments. Geology, 2015, 43, 399-402.	2.0	80
66	Giant scour-fills in ancient channel-lobe transition zones: Formative processes and depositional architecture. Sedimentary Geology, 2015, 329, 98-114.	1.0	59
67	The pervasive role of biological cohesion in bedform development. Nature Communications, 2015, 6, 6257.	5.8	165
68	Palynological evidence for a warmer boreal climate in the Late Pliocene of the Yukon Territory, Canada. Palynology, 2015, 39, 91-102.	0.7	13
69	Undersea river patterns. Nature Geoscience, 2015, 8, 663-664.	5.4	4
70	Facies and flow regimes of sandstone-hosted columnar intrusions: Insights from the pipes of Kodachrome Basin State Park. Sedimentology, 2014, 61, 1764-1792.	1.6	24
71	Autonomous Underwater Vehicles (AUVs): Their past, present and future contributions to the advancement of marine geoscience. Marine Geology, 2014, 352, 451-468.	0.9	669
72	Measuring particle concentration in multiphase pipe flow using acoustic backscatter: Generalization of the dual-frequency inversion method. Journal of the Acoustical Society of America, 2014, 136, 156-169.	0.5	22

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73	Hydrodynamics of fossil fishes. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140703.	1.2	43
74	Comment on "A simple model for vertical profiles of velocity and suspended sediment concentration in straight and curved submarine channels" by M. Bolla Pittaluga and J. Imran. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2070-2073.	1.0	4
75	Driven around the bend: Spatial evolution and controls on the orientation of helical bend flow in a natural submarine gravity current. Journal of Geophysical Research: Oceans, 2014, 119, 898-913.	1.0	35
76	The critical role of stratification in submarine channels: Implications for channelization and long runout of flows. Journal of Geophysical Research: Oceans, 2014, 119, 2620-2641.	1.0	30
77	The influence of system scale on impinging jet sediment erosion: Observed using novel and standard measurement techniques. Chemical Engineering Research and Design, 2013, 91, 722-734.	2.7	15
78	MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. IEEE Sensors Journal, 2013, 13, 492-500.	2.4	2
79	Three-dimensional gravity-current flow within a subaqueous bend: Spatial evolution and force balance variations. Sedimentology, 2013, 60, 1668-1680.	1.6	15
80	First direct measurements of hydraulic jumps in an active submarine density current. Geophysical Research Letters, 2013, 40, 5904-5908.	1.5	48
81	Sub-aqueous sand extrusion dynamics. Journal of the Geological Society, 2013, 170, 593-602.	0.9	9
82	Global (latitudinal) variation in submarine channel sinuosity: REPLY. Geology, 2013, 41, e288-e288.	2.0	15
83	Superelevation and overspill control secondary flow dynamics in submarine channels. Journal of Geophysical Research: Oceans, 2013, 118, 3895-3915.	1.0	33
84	Numerical modelling of particle-laden sonic CO ₂ jets with experimental validation. AIP Conference Proceedings, 2013, , .	0.3	5
85	Characterising Nuclear Simulant Suspensions In Situ With an Acoustic Backscatter System. , 2013, , .		0
86	Global (latitudinal) variation in submarine channel sinuosity. Geology, 2012, 40, 11-14.	2.0	68
87	Using a multi-frequency acoustic backscatter system as an in situ high concentration dispersion monitor. Chemical Engineering Science, 2012, 80, 409-418.	1.9	28
88	Modelling the equilibrium bed topography of submarine meanders that exhibit reversed secondary flows. Geomorphology, 2012, 163-164, 99-109.	1.1	20
89	A numerical study of the triggering mechanism of a lock-release density current. European Journal of Mechanics, B/Fluids, 2012, 33, 25-39.	1.2	7
90	An acoustic backscatter system for in situ concentration profiling of settling flocculated dispersions. Minerals Engineering, 2012, 27-28, 20-27.	1.8	23

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91	Behaviour of time-dependent bedforms in closed pipe flow. , 2012, , .		1
92	Sandstone Hosted Intrusions - A New Class of Short and Long-term Fluid Pathway. , 2012, , .		0
93	New insights into the morphology, fill, and remarkable longevity (>0.2 m.y.) of modern deep-water erosional scours along the northeast Atlantic margin. , 2011, 7, 845-867.		80
94	A unifying computational fluid dynamics investigation on the river-like to river-reversed secondary circulation in submarine channel bends. Journal of Geophysical Research, 2011, 116, .	3.3	25
95	Ultrasonic Techniques for the In Situ Characterisation of [~] Legacy [™] Waste Sludges and Dispersions. , 2011, , .		1
96	An integrated model of extrusive sand injectites in cohesionless sediments. Sedimentology, 2011, 58, 1693-1715.	1.6	69
97	Depositional processes, bedform development and hybrid bed formation in rapidly decelerated cohesive (mud [~] sand) sediment flows. Sedimentology, 2011, 58, 1953-1987.	1.6	198
98	Ultrasonic velocimetry for the in situ characterisation of particulate settling and sedimentation. Minerals Engineering, 2011, 24, 416-423.	1.8	29
99	Sedimentation in deep-sea lobe-elements: implications for the origin of thickening-upward sequences. Journal of the Geological Society, 2011, 168, 319-332.	0.9	72
100	Submarine channel levee shape and sediment waves from physical experiments. Sedimentary Geology, 2010, 223, 75-85.	1.0	68
101	On the Origin of Paleocurrent Complexity Within Deep Marine Channel Levees. Journal of Sedimentary Research, 2010, 80, 54-66.	0.8	25
102	Gravity-driven flow in a submarine channel bend: Direct field evidence of helical flow reversal. Geology, 2010, 38, 1063-1066.	2.0	58
103	Effects of topography on lofting gravity flows: Implications for the deposition of deep-water massive sands. Marine and Petroleum Geology, 2010, 27, 1366-1378.	1.5	25
104	The influence of bend amplitude and planform morphology on flow and sedimentation in submarine channels. Marine and Petroleum Geology, 2010, 27, 1431-1447.	1.5	53
105	A pilot study of the efficacy of residuum lodges for managing sediment delivery to impoundment reservoirs. Water and Environment Journal, 2009, 23, 52-62.	1.0	4
106	Field expressions of the transformation of debris flows into turbidity currents, with examples from the Polish Carpathians and the French Maritime Alps. Marine and Petroleum Geology, 2009, 26, 2011-2020.	1.5	36
107	A Phase Diagram for Turbulent, Transitional, and Laminar Clay Suspension Flows. Journal of Sedimentary Research, 2009, 79, 162-183.	0.8	193
108	Outer-Bank Bars: A New Intra-Channel Architectural Element within Sinuous Submarine Slope Channels. Journal of Sedimentary Research, 2009, 79, 872-886.	0.8	46

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109	Engineering Properties of Nuclear Waste Slurries. , 2009, , .		0
110	Hydraulic Behaviour of Nuclear Waste Flows. , 2009, , .		0
111	Reply to Discussion of Imran <i>et al.</i> on "The orientation of helical flow in curved channels" by Corney <i>et al.</i>, Sedimentology, 53, 249-257. Sedimentology, 2008, 55, 241-247.	1.6	28
112	Controls on sinuosity evolution within submarine channels. Geology, 2008, 36, 287.	2.0	74
113	Validation of Simplified Mathematical Model for Turbidity Currents. , 2008, , .		0
114	Flow processes and sedimentation in submarine channel bends. Marine and Petroleum Geology, 2007, 24, 470-486.	1.5	109
115	The influence of scale, slope and channel geometry on the flow dynamics of submarine channels. Marine and Petroleum Geology, 2007, 24, 487-503.	1.5	56
116	Sinuuous deep-water channels: Genesis, geometry and architecture. Marine and Petroleum Geology, 2007, 24, 341-387.	1.5	254
117	Meander-Bend Evolution, Alluvial Architecture, and the Role of Cohesion in Sinuous River Channels: A Flume Study. Journal of Sedimentary Research, 2007, 77, 197-212.	0.8	165
118	Relative Importance of Processes That Govern the Generation of Particulate Hyperpycnal Flows. Journal of Sedimentary Research, 2006, 76, 382-387.	0.8	24
119	Electrical Resistance Tomography for Suspended Sediment Measurements in Open Channel Flows Using a Novel Sensor Design. Particle and Particle Systems Characterization, 2006, 23, 313-320.	1.2	17
120	Transformation of debris flows into turbidity currents: mechanisms inferred from laboratory experiments. Sedimentology, 2006, 53, 107-123.	1.6	99
121	The orientation of helical flow in curved channels. Sedimentology, 2006, 53, 249-257.	1.6	92
122	Flow structure in sinuous submarine channels: Velocity and turbulence structure of an experimental submarine channel. Marine Geology, 2006, 229, 241-257.	0.9	103
123	Bed geometry used to test recognition criteria of turbidites and (sandy) debrites. Sedimentary Geology, 2005, 179, 163-174.	1.0	74
124	Density- and viscosity-stratified gravity currents: Insight from laboratory experiments and implications for submarine flow deposits. Sedimentary Geology, 2005, 179, 5-29.	1.0	37
125	Combined measurements of velocity and concentration in experimental turbidity currents. Sedimentary Geology, 2005, 179, 31-47.	1.0	39
126	Whole flow field dynamics and velocity pulsing within natural sediment-laden underflows. Geology, 2005, 33, 765.	2.0	103

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127	Measuring flow velocity and sediment transport with an acoustic Doppler current profiler. <i>Geomorphology</i> , 2005, 68, 25-37.	1.1	133
128	Abrupt transitions in gravity currents. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	24
129	Beds comprising debrite sandwiched within co-genetic turbidite: origin and widespread occurrence in distal depositional environments. <i>Sedimentology</i> , 2004, 51, 163-194.	1.6	204
130	Experimental constraints on shear mixing rates and processes: implications for the dilution of submarine debris flows. <i>Geological Society Special Publication</i> , 2002, 203, 89-103.	0.8	24
131	A Process Model for the Evolution, Morphology, and Architecture of Sinuous Submarine Channels. <i>Journal of Sedimentary Research</i> , 2000, 70, 434-448.	0.8	345
132	River response to lateral ground tilting: a synthesis and some implications for the modelling of alluvial architecture in extensional basins. <i>Basin Research</i> , 2000, 12, 413-424.	1.3	37
133	Axial River Evolution in Response to Half-Graben Faulting: Carson River, Nevada, U.S.A.. <i>Journal of Sedimentary Research</i> , 1998, Vol. 68 (1998),, .	0.8	0
134	First quantitative test of alluvial stratigraphic models: Southern Rio Grande rift, New Mexico. <i>Geology</i> , 1996, 24, 87.	2.0	48
135	The Influence of Aggradation Rate on Braided Alluvial Architecture: Field Study and Physical Scale-Modelling of the Ashburton River Gravels, Canterbury Plains, New Zealand. , 0, , 331-346.		15
136	Particulate Gravity Currents: Perspectives. , 0, , 1-8.		14