List of Publications by Year in descending order

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Ιέρε Φελκλιι

#	Article	IF	CITATIONS
1	Autonomous Underwater Vehicles (AUVs): Their past, present and future contributions to the advancement of marine geoscience. Marine Geology, 2014, 352, 451-468.	2.1	669
2	A Process Model for the Evolution, Morphology, and Architecture of Sinuous Submarine Channels. Journal of Sedimentary Research, 2000, 70, 434-448.	1.6	345
3	Sinuous deep-water channels: Genesis, geometry and architecture. Marine and Petroleum Geology, 2007, 24, 341-387.	3.3	254
4	Beds comprising debrite sandwiched within co-genetic turbidite: origin and widespread occurrence in distal depositional environments. Sedimentology, 2004, 51, 163-194.	3.1	204
5	Depositional processes, bedform development and hybrid bed formation in rapidly decelerated cohesive (mud–sand) sediment flows. Sedimentology, 2011, 58, 1953-1987.	3.1	198
6	A Phase Diagram for Turbulent, Transitional, and Laminar Clay Suspension Flows. Journal of Sedimentary Research, 2009, 79, 162-183.	1.6	193
7	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.	1.6	165
8	The pervasive role of biological cohesion in bedform development. Nature Communications, 2015, 6, 6257.	12.8	165
9	Measuring flow velocity and sediment transport with an acoustic Doppler current profiler. Geomorphology, 2005, 68, 25-37.	2.6	133
10	Predicting bedforms and primary current stratification in cohesive mixtures of mud and sand. Journal of the Geological Society, 2016, 173, 12-45.	2.1	127
11	Submarine channel flow processes and deposits: A process-product perspective. Geomorphology, 2015, 244, 95-120.	2.6	111
12	The role of biophysical cohesion on subaqueous bed form size. Geophysical Research Letters, 2016, 43, 1566-1573.	4.0	110
13	Flow processes and sedimentation in submarine channel bends. Marine and Petroleum Geology, 2007, 24, 470-486.	3.3	109
14	Whole flow field dynamics and velocity pulsing within natural sediment-laden underflows. Geology, 2005, 33, 765.	4.4	103
15	Flow structure in sinuous submarine channels: Velocity and turbulence structure of an experimental submarine channel. Marine Geology, 2006, 229, 241-257.	2.1	103
16	Transformation of debris flows into turbidity currents: mechanisms inferred from laboratory experiments. Sedimentology, 2006, 53, 107-123.	3.1	99
17	The orientation of helical flow in curved channels. Sedimentology, 2006, 53, 249-257.	3.1	92
18	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

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19	Sticky stuff: Redefining bedform prediction in modern and ancient environments. Geology, 2015, 43, 399-402.	4.4	80
20	Bed geometry used to test recognition criteria of turbidites and (sandy) debrites. Sedimentary Geology, 2005, 179, 163-174.	2.1	74
21	Controls on sinuosity evolution within submarine channels. Geology, 2008, 36, 287.	4.4	74
22	Sedimentation in deep-sea lobe-elements: implications for the origin of thickening-upward sequences. Journal of the Geological Society, 2011, 168, 319-332.	2.1	72
23	An integrated model of extrusive sand injectites in cohesionless sediments. Sedimentology, 2011, 58, 1693-1715.	3.1	69
24	Submarine channel levee shape and sediment waves from physical experiments. Sedimentary Geology, 2010, 223, 75-85.	2.1	68
25	Global (latitudinal) variation in submarine channel sinuosity. Geology, 2012, 40, 11-14.	4.4	68
26	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.	3.3	64
27	Giant scour-fills in ancient channel-lobe transition zones: Formative processes and depositional architecture. Sedimentary Geology, 2015, 329, 98-114.	2.1	59
28	Gravity-driven flow in a submarine channel bend: Direct field evidence of helical flow reversal. Geology, 2010, 38, 1063-1066.	4.4	58
29	The influence of scale, slope and channel geometry on the flow dynamics of submarine channels. Marine and Petroleum Geology, 2007, 24, 487-503.	3.3	56
30	The influence of bend amplitude and planform morphology on flow and sedimentation in submarine channels. Marine and Petroleum Geology, 2010, 27, 1431-1447.	3.3	53
31	Flow dynamics and mixing processes in hydraulic jump arrays: Implications for channel-lobe transition zones. Marine Geology, 2016, 381, 181-193.	2.1	51
32	First quantitative test of alluvial stratigraphic models: Southern Rio Grande rift, New Mexico. Geology, 1996, 24, 87.	4.4	48
33	First direct measurements of hydraulic jumps in an active submarine density current. Geophysical Research Letters, 2013, 40, 5904-5908.	4.0	48
34	An integrated processâ€based model of flutes and tool marks in deepâ€water environments: Implications for palaeohydraulics, the Bouma sequence and hybrid event beds. Sedimentology, 2020, 67, 1601-1666.	3.1	48
35	Outer-Bank Bars: A New Intra-Channel Architectural Element within Sinuous Submarine Slope Channels. Journal of Sedimentary Research, 2009, 79, 872-886.	1.6	46
36	Hydrodynamics of fossil fishes. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140703.	2.6	43

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37	Tectonic and environmental controls on Palaeozoic fluvial environments: reassessing the impacts of early land plants on sedimentation. Journal of the Geological Society, 2017, 174, 393-404.	2.1	43
38	Combined measurements of velocity and concentration in experimental turbidity currents. Sedimentary Geology, 2005, 179, 31-47.	2.1	39
39	Density- and viscosity-stratified gravity currents: Insight from laboratory experiments and implications for submarine flow deposits. Sedimentary Geology, 2005, 179, 5-29.	2.1	37
40	River response to lateral ground tilting: a synthesis and some implications for the modelling of alluvial architecture in extensional basins. Basin Research, 2000, 12, 413-424.	2.7	37
41	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.	3.3	36
42	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.	2.6	35
43	Flow processes and sedimentation in unidirectionally migrating deepâ€water channels: From a threeâ€dimensional seismic perspective. Sedimentology, 2016, 63, 645-661.	3.1	35
44	Superelevation and overspill control secondary flow dynamics in submarine channels. Journal of Geophysical Research: Oceans, 2013, 118, 3895-3915.	2.6	33
45	Characterization of Multiple Hindered Settling Regimes in Aggregated Mineral Suspensions. Industrial & Engineering Chemistry Research, 2016, 55, 9983-9993.	3.7	33
46	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.	3.3	31
47	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.	2.6	30
48	Latitudinal variations in submarine channel sedimentation patterns: the role of Coriolis forces. Journal of the Geological Society, 2015, 172, 161-174.	2.1	30
49	Particle Size Distribution Controls the Threshold Between Net Sediment Erosion and Deposition in Suspended Load Dominated Flows. Geophysical Research Letters, 2018, 45, 1443-1452.	4.0	30
50	Ultrasonic velocimetry for the in situ characterisation of particulate settling and sedimentation. Minerals Engineering, 2011, 24, 416-423.	4.3	29
51	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.	3.1	28
52	Using a multi-frequency acoustic backscatter system as an in situ high concentration dispersion monitor. Chemical Engineering Science, 2012, 80, 409-418.	3.8	28
53	Disconnected submarine lobes as a record of stepped slope evolution over multiple sea-level cycles. , 2018, 14, 1753-1779.		27
54	On the Origin of Paleocurrent Complexity Within Deep Marine Channel Levees. Journal of Sedimentary Research, 2010, 80, 54-66.	1.6	25

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55	Effects of topography on lofting gravity flows: Implications for the deposition of deep-water massive sands. Marine and Petroleum Geology, 2010, 27, 1366-1378.	3.3	25
56	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
57	Bedform migration in a mixed sand and cohesive clay intertidal environment and implications for bed material transport predictions. Geomorphology, 2018, 315, 17-32.	2.6	25
58	Experimental constraints on shear mixing rates and processes: implications for the dilution of submarine debris flows. Geological Society Special Publication, 2002, 203, 89-103.	1.3	24
59	Abrupt transitions in gravity currents. Journal of Geophysical Research, 2005, 110, .	3.3	24
60	Relative Importance of Processes That Govern the Generation of Particulate Hyperpycnal Flows. Journal of Sedimentary Research, 2006, 76, 382-387.	1.6	24
61	Facies and flow regimes of sandstoneâ€hosted columnar intrusions: Insights from the pipes of Kodachrome Basin State Park. Sedimentology, 2014, 61, 1764-1792.	3.1	24
62	An integrated model of clastic injectites and basin floor lobe complexes: implications for stratigraphic trap plays. Basin Research, 2017, 29, 816-835.	2.7	24
63	TB or not TB: banding in turbidite sandstones. Journal of Sedimentary Research, 2020, 90, 821-842.	1.6	24
64	An acoustic backscatter system for in situ concentration profiling of settling flocculated dispersions. Minerals Engineering, 2012, 27-28, 20-27.	4.3	23
65	On the Causes of Pulsing in Continuous Turbidity Currents. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2827-2843.	2.8	23
66	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.	1.1	22
67	Yield stress dependency on the evolution of bubble populations generated in consolidated soft sediments. AICHE Journal, 2017, 63, 3728-3742.	3.6	22
68	Self-sharpening induces jet-like structure in seafloor gravity currents. Nature Communications, 2019, 10, 1381.	12.8	22
69	Flow processes and sedimentation in contourite channels on the northwestern South China Sea margin: A joint 3D seismic and oceanographic perspective. Marine Geology, 2017, 393, 176-193.	2.1	21
70	Architecture and morphodynamics of subcritical sediment waves in an ancient channel–lobe transition zone. Sedimentology, 2018, 65, 2339-2367.	3.1	21
71	Modelling the equilibrium bed topography of submarine meanders that exhibit reversed secondary flows. Geomorphology, 2012, 163-164, 99-109.	2.6	20
72	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.	3.8	20

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73	Integrating field and laboratory approaches for ripple development in mixed sand–clay–EPS. Sedimentology, 2019, 66, 2749-2768.	3.1	20
74	Rainfall-runoff properties of tephra: Simulated effects of grain-size and antecedent rainfall. Geomorphology, 2017, 282, 39-51.	2.6	19
75	The impact of fine-scale reservoir geometries on streamline flow patterns in submarine lobe deposits using outcrop analogues from the Karoo Basin. Petroleum Geoscience, 2017, 23, 159-176.	1.5	19
76	Sole marks reveal deep-marine depositional process and environment: Implications for flow transformation and hybrid-event-bed models. Journal of Sedimentary Research, 2021, 91, 986-1009.	1.6	19
77	Exhumed lateral margins and increasing flow confinement of a submarine landslide complex. Sedimentology, 2018, 65, 1067-1096.	3.1	18
78	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.	2.3	17
79	Influence of Coriolis Force Upon Bottom Boundary Layers in a Largeâ€Scale Gravity Current Experiment: Implications for Evolution of Sinuous Deepâ€Water Channel Systems. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015284.	2.6	17
80	Concentration profiling of a horizontal sedimentation tank utilising a bespoke acoustic backscatter array and CFD simulations. Chemical Engineering Science, 2020, 218, 115560.	3.8	16
81	Hydrodynamic efficiency in sharks: the combined role of riblets and denticles. Bioinspiration and Biomimetics, 2021, 16, 046008.	2.9	16
82	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
83	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.	5.6	15
84	Threeâ€dimensional gravityâ€current flow within a subaqueous bend: Spatial evolution and force balance variations. Sedimentology, 2013, 60, 1668-1680.	3.1	15
85	Global (latitudinal) variation in submarine channel sinuosity: REPLY. Geology, 2013, 41, e288-e288.	4.4	15
86	Interactions between sediment microbial ecology and physical dynamics drive heterogeneity in contextually similar depositional systems. Limnology and Oceanography, 2020, 65, 2403-2419.	3.1	15
87	Particulate Gravity Currents: Perspectives. , 0, , 1-8.		14
88	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.	4.2	14
89	Palynological evidence for a warmer boreal climate in the Late Pliocene of the Yukon Territory, Canada. Palynology, 2015, 39, 91-102.	1.5	13
90	A novel mixing mechanism in sinuous seafloor channels: Implications for submarine channel evolution. Geomorphology, 2018, 303, 1-12.	2.6	13

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91	Evolution from synâ€rift carbonates to early postâ€rift deepâ€marine intraslope lobes: The role of rift basin physiography on sedimentation patterns. Sedimentology, 2021, 68, 2563-2605.	3.1	13
92	Comparing the transitional behaviour of kaolinite and bentonite suspension flows. Earth Surface Processes and Landforms, 2016, 41, 1911-1921.	2.5	12
93	Channelâ€lobe transition zone development in tectonically active settings: Implications for hybrid bed development. Depositional Record, 2022, 8, 829-868.	1.7	12
94	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.	3.8	11
95	<i>In situ</i> characterization of mixing and sedimentation dynamics in an impinging jet ballast tank via acoustic backscatter. AICHE Journal, 2017, 63, 2618-2629.	3.6	11
96	The effect of Schmidt number on gravity current flows: The formation of large-scale three-dimensional structures. Physics of Fluids, 2021, 33, .	4.0	11
97	Measurement and density normalisation of acoustic attenuation and backscattering constants of arbitrary suspensions within the Rayleigh scattering regime. Applied Acoustics, 2019, 146, 9-22.	3.3	10
98	Submarine Channel Mouth Settings: Processes, Geomorphology, and Deposits. Frontiers in Earth Science, 2022, 10, .	1.8	10
99	Sub-aqueous sand extrusion dynamics. Journal of the Geological Society, 2013, 170, 593-602.	2.1	9
100	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
101	Reply to Discussion on †Tectonic and environmental controls on Palaeozoic fluvial environments: reassessing the impacts of early land plants on sedimentation' <i>Journal of the Geological Society, London</i> , https://doi.org/10.1144/jgs2016-063. Journal of the Geological Society, 2017, 174, 950-952.	2.1	9
102	Unusual intraclast conglomerates in a stormy, hotâ€house lake: The Early Triassic North China Basin. Sedimentology, 2021, 68, 3385-3404.	3.1	9
103	Real-time prediction of rain-triggered lahars: incorporating seasonality and catchment recovery. Natural Hazards and Earth System Sciences, 2017, 17, 2301-2312.	3.6	8
104	A numerical study of the triggering mechanism of a lock-release density current. European Journal of Mechanics, B/Fluids, 2012, 33, 25-39.	2.5	7
105	Bedform genesis in bedrock substrates: Insights into formative processes from a new experimental approach and the importance of suspension-dominated abrasion. Geomorphology, 2016, 255, 26-38.	2.6	7
106	The influence of relative fluid depth on initial bedform dynamics in closed, horizontal pipe flow. International Journal of Multiphase Flow, 2017, 93, 1-16.	3.4	7
107	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.	3.1	7
108	Numerical Modelling of Turbulent Particle-laden Sonic CO2 Jets with Experimental Validation. Procedia Engineering, 2015, 102, 1621-1629.	1.2	6

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109	A new macrofaunal limit in the deep biosphere revealed by extreme burrow depths in ancient sediments. Scientific Reports, 2018, 8, 261.	3.3	6
110	Width variation around submarine channel bends: Implications for sedimentation and channel evolution. Marine Geology, 2021, 437, 106504.	2.1	6
111	Numerical modelling of particle-laden sonic CO[sub 2] jets with experimental validation. AIP Conference Proceedings, 2013, , .	0.4	5
112	Observations of large-scale coherent structures in gravity currents: implications for flow dynamics. Experiments in Fluids, 2021, 62, 1.	2.4	5
113	Spatial and temporal evolution of an experimental debris flow, exhibiting coupled fluid and particulate phases. Acta Geotechnica, 2022, 17, 965-979.	5.7	5
114	A pilot study of the efficacy of residuum lodges for managing sediment delivery to impoundment reservoirs. Water and Environment Journal, 2009, 23, 52-62.	2.2	4
115	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.	2.8	4
116	Undersea river patterns. Nature Geoscience, 2015, 8, 663-664.	12.9	4
117	The Geomorphology of Submarine Channel Systems of the Northern Line Islands Ridge, Central Equatorial Pacific Ocean. Frontiers in Earth Science, 2020, 8, .	1.8	4
118	Channel incision into a submarine landslide on a Carboniferous basin margin, San Juan, Argentina: Evidence for the role of knickpoints. Depositional Record, 2022, 8, 628-655.	1.7	3
119	MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. IEEE Sensors Journal, 2013, 13, 492-500.	4.7	2
120	Development of a real-time acoustic backscatter system for solids concentration measurement during nuclear waste cleanup. , 2015, , .		2
121	Ultrasonic Techniques for the In Situ Characterisation of â€~Legacy' Waste Sludges and Dispersions. , 2011, , .		1
122	Concentration profiling using a novel acoustic backscatter system with single transducers pulsed at multiple frequencies. , 2017, , .		1
123	Behaviour of time-dependent bedforms in closed pipe flow. , 2012, , .		1
124	Utilisation of underwater acoustic backscatter systems to characterise nuclear waste suspensions remotely. Proceedings of Meetings on Acoustics, 2020, , .	0.3	1
125	Axial River Evolution in Response to Half-Graben Faulting: Carson River, Nevada, U.S.A Journal of Sedimentary Research, 1998, Vol. 68 (1998),, .	1.6	0
126	Validation of Simplified Mathematical Model for Turbidity Currents. , 2008, , .		0

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127	Large-scale trials of a real-time acoustic backscatter system for solids concentration measurement during nuclear waste cleanup. , 2016, , .		0
128	Concentration profiling using a novel acoustic backscatter system with single transducers pulsed at multiple frequencies. , 2017, , .		0
129	Engineering Properties of Nuclear Waste Slurries. , 2009, , .		Ο
130	Hydraulic Behaviour of Nuclear Waste Flows. , 2009, , .		0
131	Sandstone Hosted Intrusions - A New Class of Short and Long-term Fluid Pathway. , 2012, , .		0
132	Characterising Nuclear Simulant Suspensions In Situ With an Acoustic Backscatter System. , 2013, , .		0
133	Sedimentology and architecture of early post-rift submarine lobe deposits; the Los Molles formation, Neuquén basin, Argentina. , 2016, , .		Ο
134	Keynote Speech - Physical Modelling of Submarine Channel Deposits - Towards First Order Prediction. , 2016, , .		0
135	Capturing flow transformation processes across an uneven seabed in coarse-grained sediment gravity flow deposits. , 2016, , .		Ο
136	Simultaneous velocity and concentration profiling of nuclear waste suspensions in pipe-flow, using ultrasonic Doppler and backscatter analysis. Proceedings of Meetings on Acoustics, 2021, , .	0.3	0