James L Best

List of Publications by Year in Descending Order

231 papers	10,642 citations	57 h-index	94 g-index
247 ext. papers	12,118 ext. citations	5 avg, IF	6.86 L-index

#	Paper	IF	Citations
231	Sedimentary pyrite in carbonaceous shales of the Mamfe Cretaceous basin, SW Cameroon: Morphologies, composition, pyrite framboid size frequency distribution, and formation pathways. *Journal of African Earth Sciences*, **2022**, 188, 104465	2.2	0
230	Late Triassic tectono-volcanic activity and resulting soft-sediment deformation structures in the Yanchang Formation (Ordos Basin, China) **2022**, 371-393		
229	The J amuna□B rahmaputra River, B angladesh **2022**, 579-640		
228	Amplification of downstream flood stage due to damming of fine-grained rivers. *Nature Communications*, **2022**, 13,	17.4	4
227	The Influence of Three-Dimensional Topography on Turbulent Flow Structures Over Dunes in Unidirectional Flows. *Journal of Geophysical Research F: Earth Surface*, **2021**, 126, e2021JF006121	3.8	2
226	The mysterious grooves of Volc□ B□cena: a review of the role of streamwise counter-rotating vortices during erosion by dilute pyroclastic density currents. *Bulletin of Volcanology*, **2021**, 83, 1	2.4	0
225	Unsteady dynamics of turbulent flow in the wakes of barchan dunes modulated by overlying boundary-layer structure. *Journal of Fluid Mechanics*, **2021**, 920,	3.7	2
224	Subaqueous and Subaerial Depositional Bedforms **2021**, 771-786		1
223	The sedimentary architecture of hyperpycnites produced by transient turbulent flows in a shallow lacustrine environment. *Sedimentary Geology*, **2021**, 411, 105804	2.8	2
222	Rapid gravity flow transformation revealed in a single climbing ripple. *Geology*, **2021**, 49, 493-497	5	1
221	The Effect of Biofilms on Turbulent Flow Over Permeable Beds. *Water Resources Research*, **2021**, 57, e2019WR026032	5.4	1
220	Using multibeam backscatter strength to analyze the distribution of manganese nodules: A case study of seamounts in the Western Pacific Ocean. *Applied Acoustics*, **2021**, 173, 107729	3.1	1
219	Sand, gravel, and UN Sustainable Development Goals: Conflicts, synergies, and pathways forward. *One Earth*, **2021**, 4, 1095-1111	8.1	16
218	Alluvial architecture of mid-channel fluvial□tidal barforms: The mesotidal Lower Columbia River, Oregon/Washington, USA. *Sedimentology*, **2020**, 67, 3533-3566	3.3	2
217	Novel Environment Enables PIV Measurements of Turbulent Flow around and within Complex Topographies. *Journal of Hydraulic Engineering*, **2020**, 146, 04020033	1.8	3
216	An integrated process-based model of flutes and tool marks in deep-water environments: Implications for palaeohydraulics, the Bouma sequence and hybrid event beds. *Sedimentology*, **2020**, 67, 1601-1666	3.3	25
215	River bank instability from unsustainable sand mining in the lower Mekong River. *Nature Sustainability*, **2020**, 3, 217-225	22.1	69

214	Secondary Flows and Vortex Structure Associated With Isolated and Interacting Barchan Dunes. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2019JF005257	3.8	6
213	Experimental evidence of amplitude modulation in permeable-wall turbulence. *Journal of Fluid Mechanics*, **2020**, 887,	3.7	15
212	Dunes in the world's big rivers are characterized by low-angle lee-side slopes and a complex shape. *Nature Geoscience*, **2020**, 13, 156-162	18.3	41
211	Soft-sediment deformation structures as indicators of tectono-volcanic activity during evolution of a lacustrine basin: A case study from the Upper Triassic Ordos Basin, China. *Marine and Petroleum Geology*, **2020**, 115, 104250	4.7	11
210	Drainage and erosion of Cambodia's great lake in the middle-late Holocene: The combined role of climatic drying, base-level fall and river capture. *Quaternary Science Reviews*, **2020**, 236, 106265	3.9	2
209	Interpreting pre-vegetation landscape dynamics: The Cambrian Lower Mount Simon Sandstone, Illinois, U.S.A.. *Journal of Sedimentary Research*, **2020**, 90, 1614-1641	2.1	1
208	Source apportionment of soil heavy metals in fluvial islands, Anhui section of the lower Yangtze River: comparison of APCS-MLR and PMF. *Journal of Soils and Sediments*, **2020**, 20, 3380-3393	3.4	16
207	Influence of Dunes on Channel-Scale Flow and Sediment Transport in a Sand Bed Braided River. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2020JF005571	3.8	4
206	Dune-scale cross-strata across the fluvial-deltaic backwater regime: Preservation potential of an autogenic stratigraphic signature. *Geology*, **2020**, 48, 1144-1148	5	5
205	Why do large, deep rivers have low-angle dune beds?: COMMENT. *Geology*, **2020**, 48, e505-e505	5	3
204	PIV measurements of turbulent flow overlying large, cubic- and hexagonally-packed hemisphere arrays. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2020**, 58, 363-383	1.9	7
203	River temperature and the thermal-dynamic transport of sediment. *Global and Planetary Change*, **2019**, 178, 168-183	4.2	14
202	Observations and scaling of tidal mass transport across the lower Ganges-Brahmaputra delta plain: implications for delta management and sustainability. *Earth Surface Dynamics*, **2019**, 7, 231-245	3.8	23
201	Spatial Scales of Turbulent Flow Structures Associated With Interacting Barchan Dunes. *Journal of Geophysical Research F: Earth Surface*, **2019**, 124, 1175-1200	3.8	15
200	The sedimentology of river confluences. *Sedimentology*, **2019**, 66, 391-407	3.3	11
199	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	3.3	7
198	Sedimentologic and palaeoenvironmental evolution of the Mamfe Cretaceous Basin (SW Cameroon): Evidence from lithofacies analysis, tectonics and evaporite minerals suite. *Journal of African Earth Sciences*, **2019**, 149, 19-41	2.2	8
197	Boundary-mapping and visualizing climatically changed landscapes at Kaskawulsh Glacier and Kluane Lake, Yukon. *Journal of Maps*, **2019**, 15, 19-30	2.2	2

196	Small- and large- scale soft-sediment deformations in a Triassic lacustrine delta caused by overloading and seismicity in the Ordos Basin, central China. *Marine and Petroleum Geology*, **2019**, 103, 126-149	4.7	9
195	Anthropogenic stresses on the world big rivers. *Nature Geoscience*, **2019**, 12, 7-21	18.3	378
194	Describing fluvial systems: linking processes to deposits and stratigraphy. *Geological Society Special Publication*, **2019**, 488, 152-166	1.7	16
193	Quantification of bedform dynamics and bedload sediment flux in sandy braided rivers from airborne and satellite imagery. *Earth Surface Processes and Landforms*, **2019**, 44, 953-972	3.7	17
192	Turbulence Links Momentum and Solute Exchange in Coarse-Grained Streambeds. *Water Resources Research*, **2018**, 54, 3225-3242	5.4	27
191	The influence of tributary flow density differences on the hydrodynamic behavior of a confluent meander bend and implications for flow mixing. *Geomorphology*, **2018**, 304, 99-112	4.3	35
190	The influence of flow discharge variations on the morphodynamics of a diffluence confluence unit on a large river. *Earth Surface Processes and Landforms*, **2018**, 43, 349-362	3.7	34
189	The planform mobility of river channel confluences: Insights from analysis of remotely sensed imagery. *Earth-Science Reviews*, **2018**, 176, 1-18	10.2	60
188	Hydrodynamic modelling of tidal-fluvial flows in a large river estuary. *Estuarine, Coastal and Shelf Science*, **2018**, 212, 176-188	2.9	24
187	Turbulent Flow Structure Associated With Collision Between Laterally Offset, Fixed-Bed Barchan Dunes. *Journal of Geophysical Research F: Earth Surface*, **2018**, 123, 2157-2188	3.8	19
186	Experimental study of turbulent flow over and within cubically packed walls of spheres: Effects of topography, permeability and wall thickness. *International Journal of Heat and Fluid Flow*, **2018**, 73, 16-29	2.4	18
185	Linking the local vertical variability of permeability and porosity to newly-interpreted lithofacies in the lower Mt. Simon CO2 reservoir. *International Journal of Greenhouse Gas Control*, **2018**, 68, 26-41	4.2	2
184	Observations and scaling of tidal mass transport across the lower Ganges-Brahmaputra delta plain: implications for delta management and sustainability **2018**,		1
183	On the Causes of Pulsing in Continuous Turbidity Currents. *Journal of Geophysical Research F: Earth Surface*, **2018**, 123, 2827-2843	3.8	13
182	The Impact of Nonequilibrium Flow on the Structure of Turbulence Over River Dunes. *Water Resources Research*, **2018**, 54, 6566-6584	5.4	6
181	The bubble bursts for cavitation in natural rivers: laboratory experiments reveal minor role in bedrock erosion. *Earth Surface Processes and Landforms*, **2017**, 42, 1308-1316	3.7	26
180	River piracy and drainage basin reorganization led by climate-driven glacier retreat. *Nature Geoscience*, **2017**, 10, 370-375	18.3	71
179	An evaluation of the use of a multibeam echo-sounder for observations of suspended sediment. *Applied Acoustics*, **2017**, 126, 81-90	3.1	7

178	A numerical investigation into the importance of bed permeability on determining flow structures over river dunes. *Water Resources Research*, **2017**, 53, 3067-3086	5.4	22
177	Length scales and statistical characteristics of outer bank roughness for large elongate meander bends: The influence of bank material properties, floodplain vegetation and flow inundation. *Earth Surface Processes and Landforms*, **2017**, 42, 2024-2037	3.7	32
176	Extreme flood-driven fluvial bank erosion and sediment loads: direct process measurements using integrated Mobile Laser Scanning (MLS) and hydro-acoustic techniques. *Earth Surface Processes and Landforms*, **2017**, 42, 334-346	3.7	26
175	On the evolution and form of coherent flow structures over a gravel bed: Insights from whole flow field visualization and measurement. *Journal of Geophysical Research F: Earth Surface*, **2016**, 121, 1472-1493	2.8	34
174	Three-dimensional flow structure and bed morphology in large elongate meander loops with different outer bank roughness characteristics. *Water Resources Research*, **2016**, 52, 9621-9641	5.4	48
173	Fluvial sediment supply to a mega-delta reduced by shifting tropical-cyclone activity. *Nature*, **2016**, 539, 276-279	50.4	146
172	Basin Models **2016**, 35-47		4
171	The Tullig and Kilkee Cyclothems in Southern County Clare **2016**, 240-328		3
170	The Tullig and Kilkee Cyclothems of Northern County Clare **2016**, 329-349		2
169	Predicting bedforms and primary current stratification in cohesive mixtures of mud and sand. *Journal of the Geological Society*, **2016**, 173, 12-45	2.7	94
168	The role of discharge variability in determining alluvial stratigraphy. *Geology*, **2016**, 44, 3-6	5	29
167	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	4.3	6
166	Spatial variability in bank resistance to erosion on a large meandering, mixed bedrock-alluvial river. *Geomorphology*, **2016**, 252, 80-97	4.3	84
165	Introduction to the Field Guide **2016**, 1-15		4
164	Architecture of a Distributive Submarine Fan **2016**, 112-173		4
163	Evolving Depocentre and Slope **2016**, 174-239		2
162	Comparing the transitional behaviour of kaolinite and bentonite suspension flows. *Earth Surface Processes and Landforms*, **2016**, 41, 1911-1921	3.7	7
161	The alluvial architecture of a suspended sediment dominated meandering river: the Rio Bermejo, Argentina. *Sedimentology*, **2016**, 63, 1187-1208	3.3	42

160	Grain-Size Controls On the Morphology and Internal Geometry of River-Dominated Deltas. *Journal of Sedimentary Research*, **2015**, 85, 699-714	2.1	25
159	Fluvio-deltaic avulsions during relative sea-level fall. *Geology*, **2015**, 43, 719-722	5	21
158	Extremes in dune preservation: Controls on the completeness of fluvial deposits. *Earth-Science Reviews*, **2015**, 150, 652-665	10.2	44
157	The impact of significant input of fine sediment on benthic fauna at tributary junctions: a case study of the Bermejo Paraguay River confluence, Argentina. *Ecohydrology*, **2015**, 8, 340-352	2.5	40
156	Modulation of outer bank erosion by slump blocks: Disentangling the protective and destructive role of failed material on the three-dimensional flow structure. *Geophysical Research Letters*, **2015**, 42, 10,663-10,670	4.9	55
155	Scales and causes of heterogeneity in bars in a large multi-channel river: R Paran Argentina. *Sedimentology*, **2014**, 61, 1055-1085	3.3	39
154	Effect of bed permeability and hyporheic flow on turbulent flow over bed forms. *Geophysical Research Letters*, **2014**, 41, 6435-6442	4.9	40
153	Bed form genesis from bed defects under unidirectional, oscillatory, and combined flows. *Journal of Geophysical Research F: Earth Surface*, **2014**, 119, 2635-2652	3.8	8
152	A New Phase Diagram for Combined-Flow Bedforms. *Journal of Sedimentary Research*, **2014**, 84, 301-313	2.1	39
151	A unified model for bedform development and equilibrium under unidirectional, oscillatory and combined-flows. *Sedimentology*, **2014**, 61, 2063-2085	3.3	33
150	Velocity Mapping Toolbox (VMT): a processing and visualization suite for moving-vessel ADCP measurements. *Earth Surface Processes and Landforms*, **2013**, 38, 1244-1260	3.7	112
149	Discrimination of bed form scales using robust spline filters and wavelet transforms: Methods and application to synthetic signals and bed forms of the R Paran Argentina. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 1400-1418	3.8	34
148	What is a Coherent Flow Structure in Geophysical Flow? **2013**, 1-16		8
147	Structure of Turbulent Boundary Layers **2013**, 17-24		9
146	Structural Attributes of Turbulent Flow Over a Complex Topography **2013**, 25-41		9
145	Instabilities in Stratified Shear Flow **2013**, 63-71		2
144	Interfacial Waves as Coherent Flow Structures Associated with Continuous Turbidity Currents: Lillooet Lake, Canada **2013**, 371-383		4
143	Coherent Flow Structures in the Pore Spaces of Permeable Beds Underlying a Unidirectional Turbulent Boundary Layer: A Review and Some New Experimental Results **2013**, 43-62		5

142	Coherent Structures and Mixing at a River Plume Front **2013**, 359-369		10
141	Coherent Flow Structures, Initiation of Motion, Sediment Transport and Morphological Feedbacks in Rivers **2013**, 289-307		13
140	Critical Reflections on the Coherent Flow Structures Paradigm in Aeolian Geomorphology **2013**, 111-134		17
139	From Macroturbulent Flow Structures to Large-Scale Flow Pulsations in Gravel-Bed Rivers **2013**, 261-274		4
138	Coherent Secondary Flows Over a Water-Worked Rough Bed in a Straight Channel **2013**, 275-288		3
137	Turbulence Modulation by Suspended Sediment in a Zero Mean-Shear Geophysical Flow **2013**, 309-321		7
136	Effect of Migrating Bed Topography on Flow Turbulence: Implications for Modelling Sediment Transport **2013**, 323-339		3
135	Turbulence Structure and Sand Transport Over a Gravel Bed in a Laboratory Flume **2013**, 341-357		1
134	Large-Scale Coherent Flow Structures in Alluvial Pools **2013**, 243-259		8
133	Calculation and Eduction of Coherent Flow Structures in Open-Channel Flow Using Large-Eddy Simulations **2013**, 175-197		1
132	Intermittent Suspension and Transport of Fine Sediment Over Natural Tidal Bedforms **2013**, 231-242		6
131	Detection and Analysis of Coherent Flow Structures in a Depth-Limited Flow Over a Gravel Surface **2013**, 199-214		
130	Cohstrex: Coherent Structures in Rivers and Estuaries Experiment **2013**, 215-230		1
129	Paragenetic sequences of carbonate and sulphide minerals of the Mamfe Basin (Cameroon): Indicators of palaeo-fluids, palaeo-oxygen levels and diagenetic zones. *Journal of African Earth Sciences*, **2013**, 86, 25-44	2.2	23
128	Deposits of the sandy braided South Saskatchewan River: Implications for the use of modern analogs in reconstructing channel dimensions in reservoir characterization. *AAPG Bulletin*, **2013**, 97, 553-576	2.5	26
127	Three-dimensional gravity-current flow within a subaqueous bend: Spatial evolution and force balance variations. *Sedimentology*, **2013**, 60, 1668-1680	3.3	13
126	Decimeter-scale in situ mapping of modern cross-bedded dune deposits using parametric echo sounding: A new method for linking river processes and their deposits. *Geophysical Research Letters* , **2013**, 40, 3883-3887	4.9	12
125	Monitoring the generation and evolution of the sediment plume behind towed fishing gears using a multibeam echosounder. *ICES Journal of Marine Science*, **2013**, 70, 892-903	2.7	14

124	Quantification of the relation between surface morphodynamics and subsurface sedimentological product in sandy braided rivers. *Sedimentology*, **2013**, 60, 820-839	3.3	20
123	A flume experiment on the effect of channel width on the perturbation and recovery of flow in straight pools and riffles with smooth boundaries. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 1850-1863	3.8	36
122	Bedforms: views and new perspectives from the third international workshop on Marine and River Dune Dynamics (MARID3). *Earth Surface Processes and Landforms*, **2013**, 38, 319-329	3.7	14
121	Large eddy simulation of interacting barchan dunes in a steady, unidirectional flow. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 2089-2104	3.8	22
120	Flow structure and channel morphodynamics of meander bend chute cutoffs: A case study of the Wabash River, USA. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 2468-2487	3.8	71
119	Tributary, distributary and other fluvial patterns: What really represents the norm in the continental rock record?. *Sedimentary Geology*, **2012**, 261-262, 15-32	2.8	53
118	Particle-image velocimetry measurements of flow over interacting barchan dunes. *Experiments in Fluids*, **2012**, 52, 809-829	2.5	42
117	Application of a roughness-length representation to parameterize energy loss in 3-D numerical simulations of large rivers. *Water Resources Research*, **2012**, 48,	5.4	11
116	Modelling hydrodynamics in the Rio Paran□Argentina: An evaluation and inter-comparison of reduced-complexity and physics based models applied to a large sand-bed river. *Geomorphology*, **2012**, 169-170, 192-211	4.3	27
115	Flow fields, bed shear stresses, and suspended bed sediment dynamics in bifurcations of a large river. *Water Resources Research*, **2012**, 48,	5.4	61
114	Sediment mobility and bed armoring in the St Clair River: insights from hydrodynamic modeling. *Earth Surface Processes and Landforms*, **2012**, 37, 957-970	3.7	8
113	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. *Nature Geoscience*, **2012**, 5, 534-537	18.3	85
112	Quantifying the dynamics of flow within a permeable bed using time-resolved endoscopic particle imaging velocimetry (EPIV). *Experiments in Fluids*, **2012**, 53, 51-76	2.5	24
111	Bed morphology, flow structure, and sediment transport at the outlet of Lake Huron and in the upper St. Clair River. *Journal of Great Lakes Research*, **2011**, 37, 480-493	3	15
110	Preface to Decadal Issue. *Sedimentology*, **2011**, 58, 1-1	3.3	
109	Evolution and sedimentology of a channel fill in the sandy braided South Saskatchewan River and its comparison to the deposits of an adjacent compound bar. *Sedimentology*, **2011**, 58, 1860-1883	3.3	75
108	Depositional processes, bedform development and hybrid bed formation in rapidly decelerated cohesive (mud□sand) sediment flows. *Sedimentology*, **2011**, 58, 1953-1987	3.3	140
107	On determining the geometric and kinematic characteristics of coherent flow structures over a gravel bed: a new approach using combined PLIF-PIV. *Earth Surface Processes and Landforms*, **2011**, 36, 279-284	3.7	11

106	An experimental study of discharge partitioning and flow structure at symmetrical bifurcations. *Earth Surface Processes and Landforms*, **2011**, 36, 2069-2082	3.7	46
105	Extreme sediment pulses generated by bend cutoffs along a large meandering river. *Nature Geoscience*, **2011**, 4, 675-678	18.3	94
104	Sedimentation in deep-sea lobe-elements: implications for the origin of thickening-upward sequences. *Journal of the Geological Society*, **2011**, 168, 319-332	2.7	53
103	On the relationship between flow and suspended sediment transport over the crest of a sand dune, Rí Paran□Argentina. *Sedimentology*, **2010**, 57, 252-272	3.3	68
102	Monitoring Suspended Sediment Dynamics Using MBES. *Journal of Hydraulic Engineering*, **2010**, 136, 45-49	1.8	21
101	Can we distinguish flood frequency and magnitude in the sedimentological record of rivers?. *Geology*, **2010**, 38, 579-582	5	52
100	Fluvial form in modern continental sedimentary basins: Distributive fluvial systems: COMMENT. *Geology*, **2010**, 38, e230-e230	5	18
99	A new methodology for the quantitative visualization of coherent flow structures in alluvial channels using multibeam echo-sounding (MBES). *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	18
98	Coherent flow structures in a depth-limited flow over a gravel surface: The influence of surface roughness. *Journal of Geophysical Research*, **2010**, 115,		38
97	Response of river-dominated delta channel networks to permanent changes in river discharge. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	31
96	The influence of dunes on mixing in a migrating salt-wedge: Fraser River estuary, Canada. *Earth Surface Processes and Landforms*, **2010**, 35, n/a-n/a	3.7	2
95	Quantification of braided river channel change using archival digital image analysis. *Earth Surface Processes and Landforms*, **2010**, 35, 971-985	3.7	84
94	Suspended sediment transport and deposition over a dune: Rí Paran□Argentina. *Earth Surface Processes and Landforms*, **2009**, 34, 1605-1611	3.7	47
93	A pilot study of the efficacy of residuum lodges for managing sediment delivery to impoundment reservoirs. *Water and Environment Journal*, **2009**, 23, 52-62	1.7	2
92	Coherent flow structures in a depth-limited flow over a gravel surface: The role of near-bed turbulence and influence of Reynolds number. *Journal of Geophysical Research*, **2009**, 114,		96
91	A Phase Diagram for Turbulent, Transitional, and Laminar Clay Suspension Flows. *Journal of Sedimentary Research*, **2009**, 79, 162-183	2.1	133
90	Morphology, flow structure, and suspended bed sediment transport at two large braid-bar confluences. *Water Resources Research*, **2009**, 45,	5.4	110
89	The Sedimentology and Alluvial Architecture of a Large Braid Bar, Rio Parana, Argentina. *Journal of Sedimentary Research*, **2009**, 79, 629-642	2.1	51

88	The dynamics of turbulent, transitional and laminar clay-laden flow over a fixed current ripple. *Sedimentology*, **2008**, 55, 635-666	3.3	45
87	Causes of rapid mixing at a junction of two large rivers: Río Paraná and Río Paraguay, Argentina. *Journal of Geophysical Research*, **2008**, 113,		95
86	Discussion of "Transition from Ripples to Dunes" by Arved J. Raudkivi. *Journal of Hydraulic Engineering*, **2008**, 134, 1778-1780	1.8	
85	Sediment Transport, Bed Morphology and the Sedimentology of River Channel Confluences **2008**, 45-72		54
84	Large River Channel Confluences **2008**, 73-91		29
83	Form roughness and the absence of secondary flow in a large confluence–diffluence, Rio Paraná, Argentina. *Earth Surface Processes and Landforms*, **2007**, 32, 155-162	3.7	127
82	The relationship between channel avulsion, flow occupancy and aggradation in braided rivers: insights from an experimental model. *Sedimentology*, **2007**, 54, 497-513	3.3	40
81	Reply to Discussion of Imran et al. on "The orientation of helical flow in curved channels" by Corney et al., Sedimentology, 53, 249–257. *Sedimentology*, **2007**, 55, 241-247	3.3	26
80	The influence of scale, slope and channel geometry on the flow dynamics of submarine channels. *Marine and Petroleum Geology*, **2007**, 24, 487-503	4.7	46
79	Comparison of Fixed- and Moving-Vessel Flow Measurements with an aDp in a Large River. *Journal of Hydraulic Engineering*, **2007**, 133, 1299-1309	1.8	84
78	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	2.1	138
77	Dynamics of a river channel confluence with discordant beds: Flow turbulence, bed load sediment transport, and bed morphology. *Journal of Geophysical Research*, **2006**, 111,		109
76	Mean flow, turbulence structure, and bed form superimposition across the ripple-dune transition. *Water Resources Research*, **2006**, 42,	5.4	47
75	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	3.1	12
74	The sedimentology and alluvial architecture of the sandy braided South Saskatchewan River, Canada. *Sedimentology*, **2006**, 53, 413-434	3.3	132
73	The orientation of helical flow in curved channels. *Sedimentology*, **2006**, 53, 249-257	3.3	80
72	Bed forms in bimodal sand–gravel sediments: laboratory and field analysis. *Sedimentology*, **2006**, 53, 631-654	3.3	27
71	Flow structure in sinuous submarine channels: Velocity and turbulence structure of an experimental submarine channel. *Marine Geology*, **2006**, 229, 241-257	3.3	83

70	Bar-top hollows: A new element in the architecture of sandy braided rivers. *Sedimentary Geology*, **2006**, 190, 241-255	2.8	33
69	Measuring flow velocity and sediment transport with an acoustic Doppler current profiler. *Geomorphology*, **2005**, 68, 25-37	4.3	110
68	Response of sand dunes to variations in tidal flow: Fraser Estuary, Canada. *Journal of Geophysical Research*, **2005**, 110, n/a-n/a		40
67	The fluid dynamics of river dunes: A review and some future research directions. *Journal of Geophysical Research*, **2005**, 110, n/a-n/a		326
66	Morphology and flow fields of three-dimensional dunes, Rio Paran□Argentina: Results from simultaneous multibeam echo sounding and acoustic Doppler current profiling. *Journal of Geophysical Research*, **2005**, 110, n/a-n/a		162
65	Development and testing of a numerical code for treatment of complex river channel topography in three-dimensional CFD models with structured grids. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2005**, 43, 468-480	1.9	48
64	Whole flow field dynamics and velocity pulsing within natural sediment-laden underflows. *Geology*, **2005**, 33, 765	5	88
63	Relationship between sediment supply and avulsion frequency in braided rivers. *Geology*, **2004**, 32, 21	5	84
62	Measuring Velocity and Shear Stress over Dunes with Acoustic Doppler Profiler. *Journal of Hydraulic Engineering*, **2004**, 130, 932-936	1.8	57
61	Sedimentology and kinematics of a large, retrogressive growth-fault system in Upper Carboniferous deltaic sediments, western Ireland. *Sedimentology*, **2004**, 51, 1343-1358	3.3	20
60	Sedimentology of the Bengal shelf, Bangladesh: comparison of late Miocene sediments, Sitakund anticline, with the modern, tidally dominated shelf. *Sedimentary Geology*, **2003**, 155, 271-300	2.8	19
59	Three-Dimensional Sedimentary Architecture of a Large, Mid-Channel Sand Braid Bar, Jamuna River, Bangladesh. *Journal of Sedimentary Research*, **2003**, 73, 516-530	2.1	164
58	The use and application of GPR in sandy fluvial environments: methodological considerations. *Geological Society Special Publication*, **2003**, 211, 127-142	1.7	13
57	The physical scale modelling of braided alluvial architecture and estimation of subsurface permeability. *Basin Research*, **2002**, 14, 265-285	3.2	43
56	Turbulence Modulation in Clay-Rich Sediment-Laden Flows and Some Implications for Sediment Deposition. *Journal of Sedimentary Research*, **2002**, 72, 336-340	2.1	102
55	An experimental study of turbulent flow over a low-angle dune. *Journal of Geophysical Research*, **2002**, 107, 18-1		127
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15	Braided Rivers: Where have we Come in 10 Years? Progress and Future Needs1-10		2
14	Morphological Analysis and Prediction of River Bifurcations233-256		52
13	Depositional Models of Braided Rivers11-50		80
12	A Sedimentological Model to Characterize Braided River Deposits for Hydrogeological Applications51-74		20
11	Scaling and Hierarchy in Braided Rivers and their Deposits: Examples and Implications for Reservoir Modelling75-106		46
10	Approaching the System-Scale Understanding of Braided River Behaviour107-135		29
9	Numerical Modelling of Alternate Bars in Shallow Channels153-175		7
8	The Brahmaputra-Jamuna River, Bangladesh395-433		48
7	The Morphology and Facies of Sandy Braided Rivers: Some Considerations of Scale Invariance145-158		38
6	Kinematics, Topology and Significance of Dune-Related Macroturbulence: Some Observations from the Laboratory and Field41-60		35
5	Mean Flow and Turbulence Structure of Sediment-Laden Gravity Currents: New Insights using Ultrasonic Doppler Velocity Profiling157-172		15
4	The Influence of Aggradation Rate on Braided Alluvial Architecture: Field Study and Physical Scale-Modelling of the Ashburton River Gravels, Canterbury Plains, New Zealand331-346		6
3	Flow Structure and Transport of Sand-Grade Suspended Sediment around an Evolving Braid Bar, Jamuna River, Bangladesh43-57		17
2	Morphology and Facies Models of Channel Confluences89-100		13
1	Sand mining impact on Poyang Lake: a case study based on high-resolution bathymetry and sub-bottom data. *Journal of Oceanology and Limnology*,1	1.5	0