

Paolo Blondeaux

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

2,135
citations

23
h-index

43
g-index

102
ext. papers

2,404
ext. citations

3.6
avg, IF

4.96
L-index

#	Paper	IF	Citations
91	A unified barBend theory of river meanders. <i>Journal of Fluid Mechanics</i> , 1985 , 157, 449-470	3.7	287
90	Sand ripples under sea waves Part 1. Ripple formation. <i>Journal of Fluid Mechanics</i> , 1990 , 218, 1	3.7	144
89	Numerical experiments on flapping foils mimicking fish-like locomotion. <i>Physics of Fluids</i> , 2005 , 17, 1136-1144	3.7	86
88	MECHANICS OF COASTAL FORMS. <i>Annual Review of Fluid Mechanics</i> , 2001 , 33, 339-370	2.2	85
87	Sand ripples under sea waves Part 2. Finite-amplitude development. <i>Journal of Fluid Mechanics</i> , 1990 , 218, 19	3.7	84
86	Propulsive efficiency of oscillating foils. <i>European Journal of Mechanics, B/Fluids</i> , 2004 , 23, 255-278	2.4	74
85	Coherent structures in oscillatory boundary layers. <i>Journal of Fluid Mechanics</i> , 2003 , 474, 1-33	3.7	74
84	Three-dimensional oscillatory flow over steep ripples. <i>Journal of Fluid Mechanics</i> , 2000 , 412, 355-378	3.7	74
83	On the modeling of sand wave migration. <i>Journal of Geophysical Research</i> , 2004 , 109,		68
82	Vorticity dynamics in an oscillatory flow over a rippled bed. <i>Journal of Fluid Mechanics</i> , 1991 , 226, 257-289	3.7	67
81	On the formation of sand waves and sand banks. <i>Journal of Fluid Mechanics</i> , 2006 , 557, 1	3.7	64
80	Wall imperfections as a triggering mechanism for Stokes-layer transition. <i>Journal of Fluid Mechanics</i> , 1994 , 264, 107-135	3.7	49
79	Sand ripples under sea waves Part 3. Brick-pattern ripple formation. <i>Journal of Fluid Mechanics</i> , 1992 , 239, 23	3.7	45
78	The morphodynamics of tidal sand waves: A model overview. <i>Coastal Engineering</i> , 2008 , 55, 657-670	4.8	40
77	Sea ripple formation: the heterogeneous sediment case. <i>Coastal Engineering</i> , 1995 , 25, 237-253	4.8	40
76	A note on tidally generated sand waves. <i>Journal of Fluid Mechanics</i> , 2003 , 485, 171-190	3.7	34
75	Turbulent boundary layer under a solitary wave. <i>Journal of Fluid Mechanics</i> , 2008 , 615, 433-443	3.7	32

74	Turbulent boundary layer at the bottom of gravity waves. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1987 , 25, 447-464	1.9	32
73	Steady streaming and sediment transport at the bottom of sea waves. <i>Journal of Fluid Mechanics</i> , 2012 , 697, 115-149	3.7	27
72	Turbulent spots in oscillatory boundary layers. <i>Journal of Fluid Mechanics</i> , 2011 , 685, 365-376	3.7	26
71	Grain sorting effects on the formation of tidal sand waves. <i>Journal of Fluid Mechanics</i> , 2009 , 629, 311-342	3.7	25
70	Migrating sand waves. <i>Ocean Dynamics</i> , 2003 , 53, 232-238	2.3	25
69	Migrating sea ripples. <i>European Journal of Mechanics, B/Fluids</i> , 2000 , 19, 285-301	2.4	24
68	Waves plus currents crossing at a right angle: Experimental investigation. <i>Journal of Geophysical Research</i> , 2006 , 111,		23
67	Coherent structures in an oscillatory separated flow: numerical experiments. <i>Journal of Fluid Mechanics</i> , 2004 , 518, 215-229	3.7	23
66	Chaotic Flow Generated by an Oscillating Foil.. <i>AIAA Journal</i> , 2005 , 43, 918-921	2.1	23
65	Modeling sand wave characteristics on the Belgian Continental Shelf and in the Calais-Dover Strait. <i>Journal of Geophysical Research</i> , 2007 , 112,		21
64	Crescentic bedforms in the nearshore region. <i>Journal of Fluid Mechanics</i> , 1999 , 381, 271-303	3.7	21
63	The nonlinear excitation of synchronous edge waves by a monochromatic wave normally approaching a plane beach. <i>Journal of Fluid Mechanics</i> , 1995 , 301, 251-268	3.7	21
62	BOUNDARY LAYER AND SEDIMENT DYNAMICS UNDER SEA WAVES. <i>Series on Quality, Reliability and Engineering Statistics</i> , 1999 , 133-190		20
61	Quasiperiodicity and phase locking route to chaos in the 2-D oscillatory flow around a circular cylinder. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993 , 5, 1866-1868		20
60	Intermittent turbulence in a pulsating pipe flow. <i>Journal of Fluid Mechanics</i> , 2008 , 599, 51-79	3.7	18
59	Sea ripple formation: the turbulent boundary layer case. <i>Coastal Engineering</i> , 1995 , 25, 227-236	4.8	18
58	Sediment mixtures, coastal bedforms and grain sorting phenomena: An overview of the theoretical analyses. <i>Advances in Water Resources</i> , 2012 , 48, 113-124	4.7	17
57	Tidal sand wave formation: Influence of graded suspended sediment transport. <i>Journal of Geophysical Research</i> , 2009 , 114,		17

56	Mass transport under sea waves propagating over a rippled bed. <i>Journal of Fluid Mechanics</i> , 1996 , 314, 247-265	3.7	17
55	Characteristics of the boundary layer at the bottom of a solitary wave. <i>Coastal Engineering</i> , 2011 , 58, 206-213	4.8	16
54	A simple model of propulsive oscillating foils. <i>Ocean Engineering</i> , 2004 , 31, 883-899	3.9	16
53	A model to predict the migration of sand waves in shallow tidal seas. <i>Continental Shelf Research</i> , 2016 , 112, 31-45	2.4	15
52	A simple model of wave-current interaction. <i>Journal of Fluid Mechanics</i> , 2015 , 775, 328-348	3.7	15
51	Sand ripples under sea waves. Part 4. Tile ripple formation. <i>Journal of Fluid Mechanics</i> , 2001 , 447, 227-246	3.7	15
50	A route to chaos in an oscillatory flow: Feigenbaum scenario. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991 , 3, 2492-2495		15
49	Flow and sediment transport induced by tide propagation: 1. The flat bottom case. <i>Journal of Geophysical Research</i> , 2005 , 110,		14
48	Flow and sediment transport induced by tide propagation: 2. The wavy bottom case. <i>Journal of Geophysical Research</i> , 2005 , 110,		14
47	Formation of rhythmic sorted bed forms on the continental shelf: an idealised model. <i>Journal of Fluid Mechanics</i> , 2011 , 684, 475-508	3.7	13
46	Bottom topography and roughness variations as triggering mechanisms to the formation of sorted bedforms. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	13
45	Sediment sorting along tidal sand waves: A comparison between field observations and theoretical predictions. <i>Continental Shelf Research</i> , 2013 , 63, 23-33	2.4	12
44	Sea waves and mass transport on a sloping beach. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002 , 458, 2053-2082	2.4	12
43	On the formation of vortex pairs near orifices. <i>Journal of Fluid Mechanics</i> , 1983 , 135, 111	3.7	12
42	On the formation of sediment chains in an oscillatory boundary layer. <i>Journal of Fluid Mechanics</i> , 2016 , 789, 461-480	3.7	12
41	The formation of tidal sand waves: Fully three-dimensional versus shallow water approaches. <i>Continental Shelf Research</i> , 2011 , 31, 990-996	2.4	11
40	Interface-resolved direct numerical simulations of sediment transport in a turbulent oscillatory boundary layer. <i>Journal of Fluid Mechanics</i> , 2020 , 885,	3.7	11
39	Linear evolution of sandwave packets. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a		10

38	Direct Numerical Simulation of Oscillatory Flow Over a Wavy, Rough, and Permeable Bottom. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 1595-1611	3.3	9
37	Long bed waves in tidal seas: an idealized model. <i>Journal of Fluid Mechanics</i> , 2009 , 636, 485-495	3.7	9
36	Transition to turbulence at the bottom of a solitary wave. <i>Journal of Fluid Mechanics</i> , 2012 , 709, 396-407	3.7	9
35	Pattern formation in a thin layer of sediment. <i>Marine Geology</i> , 2016 , 376, 39-50	3.3	9
34	Sediment transport under oscillatory flows. <i>International Journal of Multiphase Flow</i> , 2020 , 133, 103454	3.6	8
33	RANS modelling of the turbulent boundary layer under a solitary wave. <i>Coastal Engineering</i> , 2012 , 60, 1-10	4.8	8
32	Formation of tidal sand waves: Effects of the spring-neap cycle. <i>Journal of Geophysical Research</i> , 2010 , 115,		8
31	Numerical experiments on the transient motions of a flapping foil. <i>European Journal of Mechanics, B/Fluids</i> , 2009 , 28, 136-145	2.4	7
30	Three-dimensional tidal sand waves. <i>Journal of Fluid Mechanics</i> , 2009 , 618, 1-11	3.7	7
29	Modeling the turbulent boundary layer at the bottom of sea wave. <i>Coastal Engineering</i> , 2018 , 141, 12-23	4.8	7
28	A parameterization of the wavelength of tidal dunes. <i>Earth Surface Processes and Landforms</i> , 2011 , 36, 1152-1161	3.7	6
27	Vortex Structures Generated by a Finite-span Oscillating Foil 2005 ,		6
26	Sand banks of finite amplitude. <i>Journal of Geophysical Research</i> , 2008 , 113,		5
25	Direct numerical simulation of the oscillatory flow around a sphere resting on a rough bottom. <i>Journal of Fluid Mechanics</i> , 2017 , 822, 235-266	3.7	4
24	The boundary layer at the bottom of a solitary wave and implications for sediment transport. <i>Progress in Oceanography</i> , 2014 , 120, 399-409	3.8	4
23	On the formation of periodic sandy mounds. <i>Continental Shelf Research</i> , 2017 , 145, 68-79	2.4	4
22	Steady streaming induced by sea waves over rippled and rough beds. <i>Continental Shelf Research</i> , 2013 , 65, 64-72	2.4	3
21	A theoretical model of asymmetric wave ripples. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	3

20	Dunes and alternate bars in tidal channels. <i>Journal of Fluid Mechanics</i> , 2011 , 670, 558-580	3.7	3
19	The formation of tidal sand waves: steady versus unsteady approaches. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009 , 47, 213-222	1.9	3
18	Subharmonic edge wave excitation by narrow-band, random incident waves. <i>Journal of Fluid Mechanics</i> , 2019 , 868,	3.7	2
17	Modeling Transverse Coastal Bedforms at Anna Maria Island (Florida). <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015837	3.3	2
16	Steady Streaming Induced by Asymmetric Oscillatory Flows over a Rippled Bed. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 142	2.4	2
15	Turbulent spots in a Stokes boundary layer. <i>Journal of Physics: Conference Series</i> , 2011 , 318, 032032	0.3	2
14	A numerical algorithm to compute the morphodynamics of shallow tidal seas 2007 , 673-679		2
13	Starved versus alluvial river bedforms: an experimental investigation. <i>Earth Surface Processes and Landforms</i> , 2020 , 45, 1229-1239	3.7	2
12	River Dunes and Tidal Sand Waves: Are They Generated by the Same Physical Mechanism?. <i>Water Resources Research</i> , 2020 , 56, e2019WR026800	5.4	1
11	Non-cohesive and cohesive sediment transport due to tidal currents and sea waves: A case study. <i>Continental Shelf Research</i> , 2019 , 183, 87-102	2.4	1
10	ROLE OF VERTICAL PRESSURE GRADIENT IN WAVE BOUNDARY LAYERS. <i>Coastal Engineering Proceedings</i> , 2015 , 1, 47	1.4	1
9	Comments on Modelling the morphodynamic impact of offshore sandpit geometries by Roos et al. (2008). <i>Coastal Engineering</i> , 2008 , 55, 1245-1246	4.8	1
8	A three-dimensional model of sand bank formation. <i>Ocean Dynamics</i> , 2005 , 55, 515-525	2.3	1
7	Morphodynamic evolution of sand banks 2007 , 969-976		1
6	Perspectives in Morphodynamics 2001 , 1-9		1
5	Direct Numerical Simulations of the Pulsating Flow over a Plane Wall. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 893	2.4	0
4	The dynamics of sliding, rolling and saltating sediments in oscillatory flows. <i>European Journal of Mechanics, B/Fluids</i> , 2022 , 94, 246-262	2.4	0
3	The flow over bedload sheets and sorted bedforms. <i>Continental Shelf Research</i> , 2014 , 85, 9-20	2.4	

2 Bifurcations in the Oscillatory Flow Over a Wavy Wall. *Meccanica*, **2002**, 37, 305-311 2.1

1 Stability Analyses to Predict Tidal Sedimentary Patterns **2022**, 335-348