

Dominic E Reeve

List of Publications by Year in descending order

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142
papers

2,639
citations

172207

29
h-index

243296

44
g-index

148
all docs

148
docs citations

148
times ranked

2152
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of wave overtopping by an incompressible SPH model. Coastal Engineering, 2006, 53, 723-735.	1.7	138
2	Modelling analysis of the sensitivity of shoreline change to a wave farm. Ocean Engineering, 2007, 34, 884-901.	1.9	131
3	Automated threshold selection methods for extreme wave analysis. Coastal Engineering, 2009, 56, 1013-1021.	1.7	125
4	The effects of storm clustering on beach profile variability. Marine Geology, 2014, 348, 103-112.	0.9	125
5	Experimental study on vegetation flexibility as control parameter for wave damping and velocity structure. Coastal Engineering, 2020, 157, 103648.	1.7	75
6	Numerical study of combined overflow and wave overtopping over a smooth impermeable seawall. Coastal Engineering, 2008, 55, 155-166.	1.7	72
7	Wave climate projections along the Indian coast. International Journal of Climatology, 2019, 39, 4531-4542.	1.5	63
8	A Level Set Immersed Boundary Method for Water Entry and Exit. Communications in Computational Physics, 2010, 8, 265-288.	0.7	63
9	A classification system for global wave energy resources based on multivariate clustering. Applied Energy, 2020, 262, 114515.	5.1	62
10	An investigation of the impacts of climate change on wave energy generation: The Wave Hub, Cornwall, UK. Renewable Energy, 2011, 36, 2404-2413.	4.3	58
11	A novel coupled level set and volume of fluid method for sharp interface capturing on 3D tetrahedral grids. Journal of Computational Physics, 2010, 229, 2573-2604.	1.9	56
12	Long-term morphodynamic evolution of estuaries: An inverse problem. Estuarine, Coastal and Shelf Science, 2008, 77, 385-395.	0.9	51
13	Simulation of spilling breaking waves using a two phase flow CFD model. Computers and Fluids, 2009, 38, 1995-2005.	1.3	51
14	Numerical simulation of overflow at vertical weirs using a hybrid level set/VOF method. Advances in Water Resources, 2011, 34, 1320-1334.	1.7	46
15	Parameterisation and transformation of wave asymmetries over a low-crested breakwater. Coastal Engineering, 2009, 56, 1123-1132.	1.7	41
16	Modeling Floating Object Entry and Exit Using Smoothed Particle Hydrodynamics. Journal of Waterway, Port, Coastal and Ocean Engineering, 2011, 137, 213-224.	0.5	40
17	Shoreline evolution under climate change wave scenarios. Climatic Change, 2011, 108, 73-105.	1.7	39
18	The SPR systems model as a conceptual foundation for rapid integrated risk appraisals: Lessons from Europe. Coastal Engineering, 2014, 87, 15-31.	1.7	39

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19	Morphodynamic behaviour of a nearshore sandbank system: The Great Yarmouth Sandbanks, U.K.. <i>Marine Geology</i> , 2008, 254, 91-106.	0.9	38
20	Bayesian nonparametric quantile regression using splines. <i>Computational Statistics and Data Analysis</i> , 2010, 54, 1138-1150.	0.7	38
21	A statistical-dynamical method for predicting long term coastal evolution. <i>Coastal Engineering</i> , 1997, 30, 259-280.	1.7	36
22	Wave-impact characteristics of plunging breakers acting on gravel beaches. <i>Marine Geology</i> , 2008, 253, 26-35.	0.9	36
23	An analysis of the cross-shore beach morphodynamics of a sandy and a composite gravel beach. <i>Marine Geology</i> , 2012, 299-302, 33-42.	0.9	35
24	Ensemble prediction of coastal flood risk arising from overtopping by linking meteorological, ocean, coastal and surf zone models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 298-313.	1.0	35
25	Data-driven and hybrid coastal morphological prediction methods for mesoscale forecasting. <i>Geomorphology</i> , 2016, 256, 49-67.	1.1	35
26	Modelling wave attenuation by quasi-flexible coastal vegetation. <i>Coastal Engineering</i> , 2021, 164, 103820.	1.7	34
27	Consistent Particle Method simulation of solitary wave impinging on and overtopping a seawall. <i>Engineering Analysis With Boundary Elements</i> , 2019, 103, 160-171.	2.0	33
28	Statistical analysis and forecasts of long-term sandbank evolution at Great Yarmouth, UK. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 79, 387-399.	0.9	31
29	Investigation of pressure variations over stepped spillways using smooth particle hydrodynamics. <i>Advances in Water Resources</i> , 2014, 66, 52-69.	1.7	31
30	Multi-scale variability of beach profiles at Duck: A wavelet analysis. <i>Coastal Engineering</i> , 2005, 52, 1133-1153.	1.7	30
31	On the prediction of long-term morphodynamic response of estuarine systems to sea level rise and human interference. <i>Continental Shelf Research</i> , 2009, 29, 938-950.	0.9	26
32	Explicit Expression for Beach Response to Non-Stationary Forcing near a Groyne. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2006, 132, 125-132.	0.5	24
33	An investigation of the link between beach morphology and wave climate at Duck, NC, USA. <i>Journal of Flood Risk Management</i> , 2008, 1, 110-122.	1.6	24
34	An investigation of the performance of a data-driven model on sand and shingle beaches. <i>Marine Geology</i> , 2010, 274, 120-134.	0.9	24
35	Diagnostic investigation of impulsive pressures induced by plunging breakers impinging on gravel beaches. <i>Coastal Engineering</i> , 2010, 57, 252-266.	1.7	23
36	Coastal Flood Risk Assessment. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1998, 124, 219-228.	0.5	22

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37	Determination of wave-shoreline dynamics on a macrotidal gravel beach using Canonical Correlation Analysis. <i>Coastal Engineering</i> , 2010, 57, 290-303.	1.7	22
38	<i>Coastal Engineering</i> , 0, , .		22
39	An investigation of the multi-scale temporal variability of beach profiles at Duck using wavelet packet transforms. <i>Coastal Engineering</i> , 2007, 54, 401-415.	1.7	21
40	Quantifying uncertainty in extreme values of design parameters with resampling techniques. <i>Ocean Engineering</i> , 2008, 35, 1029-1038.	1.9	21
41	Linkages between sediment composition, wave climate and beach profile variability at multiple timescales. <i>Marine Geology</i> , 2016, 381, 194-208.	0.9	21
42	Probabilistic modelling of long-term beach evolution near segmented shore-parallel breakwaters. <i>Coastal Engineering</i> , 2010, 57, 732-744.	1.7	20
43	Future wave climate over the west-European shelf seas. <i>Ocean Dynamics</i> , 2011, 61, 807-827.	0.9	20
44	The effect of ocean inhomogeneities on array output. <i>Journal of the Acoustical Society of America</i> , 1990, 87, 2527-2534.	0.5	19
45	A Boolean Approach to Prediction of Long-Term Evolution of Estuary Morphology. <i>Journal of Coastal Research</i> , 2008, 2, 51-61.	0.1	19
46	Numerical modelling of hydrodynamic and morphodynamic response of a meso-tidal estuary inlet to the impacts of global climate variabilities. <i>Marine Geology</i> , 2019, 407, 229-247.	0.9	19
47	Evolution of shoreline position moments. <i>Coastal Engineering</i> , 2004, 51, 661-673.	1.7	18
48	Beach profile evolution as an inverse problem. <i>Continental Shelf Research</i> , 2009, 29, 2234-2239.	0.9	18
49	3D modelling of the impacts of in-stream horizontal-axis Tidal Energy Converters (TECs) on offshore sandbank dynamics. <i>Applied Ocean Research</i> , 2019, 91, 101882.	1.8	18
50	Numerical solution of the elliptic mild-slope equation for irregular wave propagation. <i>Coastal Engineering</i> , 1993, 20, 85-100.	1.7	17
51	Source Reconstruction in a Coastal Evolution Equation. <i>Journal of Computational Physics</i> , 2000, 161, 169-181.	1.9	17
52	Semianalytical Solutions of Shoreline Response to Time-Varying Wave Conditions. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2008, 134, 265-274.	0.5	17
53	Causal Loop Analysis of coastal geomorphological systems. <i>Geomorphology</i> , 2016, 256, 36-48.	1.1	17
54	Climate Change Impacts on Future Wave Climate around the UK. <i>Journal of Marine Science and Engineering</i> , 2016, 4, 78.	1.2	16

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55	Modelling Extreme Wave Overtopping at Aberystwyth Promenade. <i>Water (Switzerland)</i> , 2017, 9, 663.	1.2	16
56	Computational investigation of hydraulic performance variation with geometry in gabion stepped spillways. <i>Water Science and Engineering</i> , 2019, 12, 62-72.	1.4	16
57	Monitoring near-shore shingle transport under waves using a passive acoustic technique. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 737-746.	0.5	15
58	A hybrid approach to model shoreline change at multiple timescales. <i>Continental Shelf Research</i> , 2013, 66, 29-35.	0.9	15
59	Extreme value prediction via a quantile function model. <i>Coastal Engineering</i> , 2013, 77, 91-98.	1.7	15
60	Analysis of Climate Change Effects on Seawall Reliability. <i>Coastal Engineering Journal</i> , 2015, 57, 1550010-1-1550010-18.	0.7	15
61	Experimental study of freak wave impacts on a tension-leg platform. <i>Marine Structures</i> , 2020, 74, 102821.	1.6	15
62	Modelling shoreline evolution in the vicinity of a groyne and a river. <i>Continental Shelf Research</i> , 2017, 132, 49-57.	0.9	14
63	Modelling 3D hydrodynamics governing island-associated sandbanks in a proposed tidal stream energy site. <i>Applied Ocean Research</i> , 2017, 66, 79-94.	1.8	14
64	The Use of Unmanned Aerial Systems to Map Intertidal Sediment. <i>Remote Sensing</i> , 2018, 10, 1918.	1.8	14
65	An integrated model system for coastal flood prediction with a case history for Walcott, UK , on 9 November 2007 . <i>Journal of Flood Risk Management</i> , 2013, 6, 229-252.	1.6	13
66	Recovery of a Variable Coefficient in a Coastal Evolution Equation. <i>Journal of Computational Physics</i> , 1999, 151, 585-596.	1.9	12
67	Beach memory and ensemble prediction of shoreline evolution near a groyne. <i>Coastal Engineering</i> , 2014, 86, 77-87.	1.7	12
68	Multi-resolution analysis of nearshore hydrodynamics using discrete wavelet transforms. <i>Coastal Engineering</i> , 2005, 52, 771-792.	1.7	11
69	Computational modelling of coastal flooding caused by combined surge overflow and wave overtopping on embankments. <i>Journal of Flood Risk Management</i> , 2013, 6, 70-84.	1.6	11
70	Modelling beach-structure interaction using a Heaviside technique: application and validation. <i>Journal of Coastal Research</i> , 2013, 65, 410-415.	0.1	11
71	Application of a source-pathway-receptor-consequence (S-P-R-C) methodology to the Teign Estuary, UK. <i>Journal of Coastal Research</i> , 2013, 165, 1939-1944.	0.1	11
72	Free-surface long wave propagation over linear and parabolic transition shelves. <i>Water Science and Engineering</i> , 2018, 11, 318-327.	1.4	11

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73	A new approach to analytical modelling of groyne fields. <i>Continental Shelf Research</i> , 2020, 211, 104288.	0.9	11
74	Prediction of cross-shore beach profile evolution using a diffusion type model. <i>Continental Shelf Research</i> , 2012, 48, 157-166.	0.9	10
75	Effects of Swell on Wave Height Distribution of Energy-Conserved Bimodal Seas. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 79.	1.2	10
76	A note on the numerical solution of the one-line model. <i>Environmental Modelling and Software</i> , 2010, 25, 802-807.	1.9	9
77	A statistical“dynamical method for predicting estuary morphology. <i>Ocean Dynamics</i> , 2011, 61, 1033-1044.	0.9	9
78	Future wave-climate driven longshore sediment transport along the Indian coast. <i>Climatic Change</i> , 2020, 162, 405-424.	1.7	9
79	Extreme water levels of the Vistula River and Gdansk Harbour. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2008, 46, 235-245.	0.7	8
80	Analysis of key parameters in a diffusion type beach profile evolution model. <i>Continental Shelf Research</i> , 2011, 31, 98-107.	0.9	8
81	Computational modelling of morphodynamic response of a macro-tidal beach to future climate variabilities. <i>Marine Geology</i> , 2019, 415, 105960.	0.9	8
82	Spatial Variation in Coastal Dune Evolution in a High Tidal Range Environment. <i>Remote Sensing</i> , 2020, 12, 3689.	1.8	8
83	Gravel Barrier Beach Morphodynamic Response to Extreme Conditions. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 135.	1.2	8
84	The Impacts of a Subglacial Discharge Plume on Calving, Submarine Melting, and MÅlange Mass Loss at Helheim Glacier, South East Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005910.	1.0	8
85	A Preconditioned Implicit Free-Surface Capture Scheme for Large Density Ratio on Tetrahedral Grids. <i>Communications in Computational Physics</i> , 2012, 11, 215-248.	0.7	7
86	On the stability of a class of shoreline planform models. <i>Coastal Engineering</i> , 2014, 91, 76-83.	1.7	7
87	Numerical Solution of the Fourth-moment Equation for a Point Source. <i>Journal of Modern Optics</i> , 1990, 37, 965-975.	0.6	6
88	Stochastic Model for Embayed Beaches. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2009, 135, 144-153.	0.5	6
89	Solution of the Fourth-moment Equation by an Adaptive Grid Method. <i>Journal of Modern Optics</i> , 1990, 37, 5-12.	0.6	5
90	Numerical Study for Small Negative Freeboard Wave Overtopping and Overflow of Sloping Sea Wall. , 2004, , 643.		5

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91	Fast Ensemble Forecast of Storm Surge along the Coast of China. <i>Journal of Coastal Research</i> , 2016, 75, 1077-1081.	0.1	5
92	Two-dimensional reduced-physics model to describe historic morphodynamic behaviour of an estuary inlet. <i>Marine Geology</i> , 2016, 382, 200-209.	0.9	5
93	Comparison between wave generation methods for numerical simulation of bimodal seas. <i>Water Science and Engineering</i> , 2016, 9, 3-13.	1.4	5
94	Bathymetric generation of an angular wave spectrum. <i>Wave Motion</i> , 1992, 16, 217-228.	1.0	4
95	ENSEMBLE PREDICTION OF INUNDATION RISK AND UNCERTAINTY ARISING FROM SCOUR (EPIRUS). , 2009, , .		4
96	Spectral Quantification of Nonlinear Behaviour of the Nearshore Seabed and Correlations with Potential Forcings at Duck, N.C., U.S.A. <i>PLoS ONE</i> , 2012, 7, e39196.	1.1	4
97	Investigation of deep sea shelf sandbank dynamics driven by highly energetic tidal flows. <i>Marine Geology</i> , 2016, 380, 245-263.	0.9	4
98	Wave overtopping of smooth impermeable seawalls under unidirectional bimodal sea conditions. <i>Coastal Engineering</i> , 2021, 165, 103792.	1.7	4
99	Data-driven analysis of medium-term wave-seabed interactions at a non-tidal beach with multiple bars. <i>Marine Geology</i> , 2013, 344, 144-154.	0.9	3
100	Linking regional wave conditions to local beach profile change. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2014, 167, 29-41.	1.4	3
101	A hybrid beach morphology model applied to a high energy sandy beach. <i>Ocean Dynamics</i> , 2015, 65, 1411-1422.	0.9	3
102	Performance of a data-driven technique applied to changes in wave height and its effect on beach response. <i>Water Science and Engineering</i> , 2016, 9, 42-51.	1.4	3
103	A Computational Investigation of Storm Impacts on Estuary Morphodynamics. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 421.	1.2	3
104	Reflection Analysis of Impermeable Slopes under Bimodal Sea Conditions. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 133.	1.2	3
105	Modelling the morphodynamic evolution of Galveston beach, Gulf of Mexico, following Hurricane Ike in 2008. <i>Continental Shelf Research</i> , 2021, 218, 104373.	0.9	3
106	An integrated study of wave attenuation by vegetation. <i>Wave Motion</i> , 2022, 110, 102878.	1.0	3
107	One-Line Modeling of Mega-Nourishment Evolution. <i>Journal of Coastal Research</i> , 2021, 37, .	0.1	2
108	Imaging Subsurface Structures at Fast Eroding Coastal Areas in Northern Bengkulu Using 2D Seismic MASW Method. <i>Earth Systems and Environment</i> , 2022, 6, 531-540.	3.0	2

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109	Numerical Solution of the Second Moment Equation for Waves in an Inhomogeneous Waveguide. Journal of Modern Optics, 1992, 39, 1343-1352.	0.6	1
110	A RISK BASED FRAMEWORK FOR PREDICTING LONG-TERM BEACH EVOLUTION. , 2007, , .		1
111	Transverse and Longitudinal Eigenfunction Analysis of a Navigation Channel Subject to Regular Dredgings: The Adour River Mouth, France. Journal of Coastal Research, 2008, 1, 206-215.	0.1	1
112	TRANSFORMATION OF WAVE SKEWNESS AND ASYMMETRY OVER LOW-CRESTED BREAKWATERS. , 2009, , .		1
113	Applying the Artificial Submerged Reefs techniques to reduce the Flooding Problems along the Alexandria Coastline. , 2010, , 188-199.		1
114	Discussion of "Time-Dependent Risk Assessment of Combined Overtopping and Structural Failure for Reinforced Concrete Coastal Structures" by C. Q. Li and J. M. Zhao. Journal of Waterway, Port, Coastal and Ocean Engineering, 2011, 137, 210-211.	0.5	1
115	Comment on "Application of the parabolic bay shape equation to sand and gravel beaches on Mediterranean coasts"™, by Schiaffino et al. (2011). Coastal Engineering, 2012, 60, 336-337.	1.7	1
116	A HYBRID-REDUCED PHYSICS MODELLING APPROACH APPLIED TO THE DEBEN ESTUARY, UK. Coastal Engineering Proceedings, 2015, 1, 76.	0.1	1
117	Discussion of "Wave energy distribution and morphological development in and around the shadow zone of an embayed beach"™ by C. J. Daly, K. R. Bryan & C. Winter, Coastal Engineering, Vol. 93, p. 40"54. Coastal Engineering, 2015, 98, 31-32.	1.7	1
118	Forecasts of seasonal to inter-annual beach change using a reduced physics beach profile model. Marine Geology, 2015, 365, 14-20.	0.9	1
119	Investigation of wind and tidal forcing on stratified flows in Greenland fjords with TELEMAC-3D. European Journal of Computational Mechanics, 2016, 25, 249-272.	0.6	1
120	Coastal Engineering and Geosciences. , 2021, , .		1
121	DETAILED SEDIMENT CLASS MAPPING USING UNMANNED AERIAL VEHICLES. , 2019, , .		1
122	PROBABILISTIC METHODS FOR FLOOD RISK ASSESSMENT. , 2003, , .		1
123	Simulation of bioecological and water quality processes in enclosed coastal seas. Marine Pollution Bulletin, 1991, 23, 259-263.	2.3	0
124	Reply to: Pye, K., 2008. Discussion of: Karunaratna, H. and Reeve, D., 2008. A Boolean Approach to Prediction of Long-Term Evolution of Estuary Morphology. <i>Journal of Coastal Research</i>, 24(2B), 51"61; <i>Journal of Coastal Research</i>, 24(5), 1351"1352. Journal of Coastal Research, 2009, 252, 523-525.	0.1	0
125	SPH MODELLING OF LARGE WAVE IMPACTS. , 2009, , .		0
126	APPLICATION OF A NOVEL DECISION SUPPORT SYSTEM TO ASSESS AND MANAGE COASTAL FLOOD RISK IN THE TEIGN ESTUARY, UK. Coastal Engineering Proceedings, 2015, 1, 43.	0.1	0

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127	MODELLING INTER-ANNUAL SCALE BEACH CHANGE. , 2015, , .		0
128	On the Application of Mega-Nourishment in the UK. , 2018, , .		0
129	A STOCHASTIC MODEL FOR SHORELINE EVOLUTION. , 2003, , .		0
130	ACOUSTIC CHARACTERISATION OF SHINGLE MOVEMENT IN THE SURF ZONE. , 2005, , .		0
131	BEACH VARIABILITY NEAR GROYNES. , 2007, , .		0
132	BOOTSTRAP RESAMPLING FOR EXTREME WAVE HEIGHTS: IMPLICATIONS FOR COASTAL RISKS. , 2007, , .		0
133	Ensemble Prediction of Inundation Risk and Uncertainty arising from Scour (EPIRUS). , 2008, , 137-142.		0
134	APPRAISING SPIT DYNAMICS AND ESTUARY RESPONSES: A COASTAL MANAGEMENT STUDY FROM THE EXE ESTUARY, UK. , 2009, , .		0
135	86. FORECASTING AND UNCERTAINTY ESTIMATION OF NEARSHORE BATHYMETRIC EVOLUTION OVER ANNUAL TIMESCALES. , 2009, , .		0
136	77. ON THE ROLE OF IMPULSIVE PRESSURES INDUCED BY PLUNGING BREAKERS ACTING ON GRAVEL BEACHES. , 2009, , .		0
137	7. USING A PARTICLE HYBRID METHOD TO MODEL COASTAL BLUFF COLLAPSE DURING EXTREME EVENTS. , 2009, , .		0
138	65. A MODEL FOR PREDICTING MEDIUM TO LONG TERM MORPHODYNAMIC RESPONSE OF ESTUARIES. , 2009, , .		0
139	Wave Overtopping in the UK During the Winter of 2013/14. Lecture Notes in Civil Engineering, 2019, , 13-23.	0.3	0
140	A SEMI-ANALYTICAL SHORELINE MODEL, WITH AN APPLICATION AT GALVESTON BEACH IN TEXAS, USA. , 2019, , .		0
141	EFFECTS OF A TIDAL LAGOON ON THE HYDRODYNAMICS OF SWANSEA BAY, WALES, UK. , 2019, , .		0
142	Simulation of Wave Time Series with a Vector Autoregressive Method. Water (Switzerland), 2022, 14, 363.	1.2	0