

# Simon P Neill

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

3,824  
citations

126858

33  
h-index

133188

59  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Second-generation environmental sequencing unmasks marine metazoan biodiversity. <i>Nature Communications</i> , 2010, 1, 98.	5.8	321
2	The impact of tidal stream turbines on large-scale sediment dynamics. <i>Renewable Energy</i> , 2009, 34, 2803-2812.	4.3	204
3	Resource assessment for future generations of tidal-stream energy arrays. <i>Energy</i> , 2015, 83, 403-415.	4.5	189
4	Impact of tidal energy converter (TEC) arrays on the dynamics of headland sand banks. <i>Renewable Energy</i> , 2012, 37, 387-397.	4.3	176
5	Impact of climate change on UK estuaries: A review of past trends and potential projections. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 169, 119-135.	0.9	176
6	Tidal range energy resource and optimization – Past perspectives and future challenges. <i>Renewable Energy</i> , 2018, 127, 763-778.	4.3	148
7	Wave power variability over the northwest European shelf seas. <i>Applied Energy</i> , 2013, 106, 31-46.	5.1	121
8	Environmental metabarcoding reveals heterogeneous drivers of microbial eukaryote diversity in contrasting estuarine ecosystems. <i>ISME Journal</i> , 2015, 9, 1208-1221.	4.4	120
9	The role of tidal asymmetry in characterizing the tidal energy resource of Orkney. <i>Renewable Energy</i> , 2014, 68, 337-350.	4.3	113
10	Characterising the spatial and temporal variability of the tidal-stream energy resource over the northwest European shelf seas. <i>Applied Energy</i> , 2015, 147, 510-522.	5.1	102
11	Metagenetic analysis of patterns of distribution and diversity of marine meiobenthic eukaryotes. <i>Global Ecology and Biogeography</i> , 2014, 23, 1293-1302.	2.7	96
12	Characteristics of the velocity profile at tidal-stream energy sites. <i>Renewable Energy</i> , 2017, 114, 258-272.	4.3	91
13	Physical and biological controls on larval dispersal and connectivity in a highly energetic shelf sea. <i>Limnology and Oceanography</i> , 2013, 58, 505-524.	1.6	88
14	Realistic wave conditions and their influence on quantifying the tidal stream energy resource. <i>Applied Energy</i> , 2014, 136, 495-508.	5.1	88
15	Impact of tidal-stream arrays in relation to the natural variability of sedimentary processes. <i>Renewable Energy</i> , 2014, 72, 311-321.	4.3	79
16	The wave and tidal resource of Scotland. <i>Renewable Energy</i> , 2017, 114, 3-17.	4.3	71
17	Power variability of tidal-stream energy and implications for electricity supply. <i>Energy</i> , 2019, 183, 1061-1074.	4.5	71
18	Effect of waves on the tidal energy resource at a planned tidal stream array. <i>Renewable Energy</i> , 2015, 75, 626-639.	4.3	66

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19	Tidal energy leasing and tidal phasing. <i>Renewable Energy</i> , 2016, 85, 580-587.	4.3	64
20	Inter-annual and inter-seasonal variability of the Orkney wave power resource. <i>Applied Energy</i> , 2014, 132, 339-348.	5.1	63
21	Using an artificial neural network to model seasonal changes in beach profiles. <i>Ocean Engineering</i> , 2010, 37, 1345-1356.	1.9	55
22	Identification of genetically and oceanographically distinct blooms of jellyfish. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120920.	1.5	54
23	The influence of waves on the tidal kinetic energy resource at a tidal stream energy site. <i>Applied Energy</i> , 2016, 180, 402-415.	5.1	54
24	Wave-tide interaction modulates nearshore wave height. <i>Ocean Dynamics</i> , 2019, 69, 367-384.	0.9	52
25	Evolution of bed shear stress distribution over the northwest European shelf seas during the last 12,000 years. <i>Ocean Dynamics</i> , 2010, 60, 1139-1156.	0.9	51
26	Sensitivity of palaeotidal models of the northwest European shelf seas to glacial isostatic adjustment since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2016, 151, 198-211.	1.4	51
27	Tidal energy extraction in three-dimensional ocean models. <i>Renewable Energy</i> , 2017, 114, 244-257.	4.3	48
28	Context dependency of relationships between biodiversity and ecosystem functioning is different for multiple ecosystem functions. <i>Oikos</i> , 2009, 118, 1892-1900.	1.2	44
29	Characterising the tidal stream power resource around France using a high-resolution harmonic database. <i>Renewable Energy</i> , 2018, 123, 706-718.	4.3	43
30	Optimal phasing of the European tidal stream resource using the greedy algorithm with penalty function. <i>Energy</i> , 2014, 73, 997-1006.	4.5	42
31	Comparison of ADCP observations and 3D model simulations of turbulence at a tidal energy site. <i>Renewable Energy</i> , 2017, 114, 273-282.	4.3	41
32	Research priorities for assessing potential impacts of emerging marine renewable energy technologies: Insights from developments in Wales (UK). <i>Renewable Energy</i> , 2016, 99, 1327-1341.	4.3	39
33	Classifying seabed sediment type using simulated tidal-induced bed shear stress. <i>Marine Geology</i> , 2015, 367, 94-104.	0.9	36
34	Ocean Modelling for Resource Characterization. , 2018, , 193-235.		36
35	The role of tides in shelf-scale simulations of the wave energy resource. <i>Renewable Energy</i> , 2014, 69, 300-310.	4.3	34
36	Influence of storm surge on tidal range energy. <i>Energy</i> , 2017, 122, 25-36.	4.5	32

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37	The formation of headland/island sandbanks. <i>Continental Shelf Research</i> , 2009, 29, 2167-2177.	0.9	31
38	A new Holocene relative sea-level curve for western Brittany (France): Insights on isostatic dynamics along the Atlantic coasts of north-western Europe. <i>Quaternary Science Reviews</i> , 2015, 129, 341-365.	1.4	31
39	Tidal stream resource assessment uncertainty due to flow asymmetry and turbine yaw misalignment. <i>Renewable Energy</i> , 2017, 114, 1363-1375.	4.3	31
40	A coupled tide-wave model for the NW European shelf seas. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2015, 109, 234-253.	0.4	27
41	Tidal-stream energy resource characterization for the Gulf of California, MÃ©xico. <i>Energy</i> , 2018, 156, 481-491.	4.5	24
42	Tidal stream resource characterisation in progressive versus standing wave systems. <i>Applied Energy</i> , 2018, 220, 274-285.	5.1	24
43	A review of the UK and British Channel Islands practical tidal stream energy resource. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20210469.	1.0	24
44	Tidal range resource of Australia. <i>Renewable Energy</i> , 2021, 170, 683-692.	4.3	23
45	Numerical modelling of the mild slope equation using localised differential quadrature method. <i>Ocean Engineering</i> , 2012, 47, 88-103.	1.9	22
46	A standardised tidal-stream power curve, optimised for the global resource. <i>Renewable Energy</i> , 2021, 170, 1308-1323.	4.3	22
47	An enhanced depth-averaged tidal model for morphological studies in the presence of rotary currents. <i>Continental Shelf Research</i> , 2007, 27, 82-102.	0.9	21
48	Tidal and surge modelling using differential quadrature: A case study in the Bristol Channel. <i>Coastal Engineering</i> , 2008, 55, 811-819.	1.7	21
49	A numerical study of marine larval dispersal in the presence of an axial convergent front. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 100, 172-185.	0.9	21
50	A model of inter-annual variability in beach levels. <i>Continental Shelf Research</i> , 2008, 28, 1769-1781.	0.9	20
51	The impacts of tidal energy development and sea-level rise in the Gulf of Maine. <i>Energy</i> , 2019, 187, 115942.	4.5	20
52	A review of tidal energyâ€™Resource, feedbacks, and environmental interactions. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	0.8	20
53	The role of Coriolis in sandbank formation due to a headland/island system. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 79, 419-428.	0.9	18
54	A simplified method to estimate tidal current effects on the ocean wave power resource. <i>Renewable Energy</i> , 2016, 96, 257-269.	4.3	18

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55	Observations and numerical modelling of a non-buoyant front in the Tay Estuary, Scotland. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 59, 173-184.	0.9	14
56	Other Aspects of Ocean Renewable Energy. , 2018, , 271-309.		13
57	Numerical modelling of hydrodynamics and tidal energy extraction in the Alderney Race: a review. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190498.	1.6	13
58	Global riverine theoretical hydrokinetic resource assessment. <i>Renewable Energy</i> , 2021, 174, 654-665.	4.3	13
59	Measuring and Observing the Ocean Renewable Energy Resource. , 2022, , 149-175.		13
60	Three-dimensional modelling of turbine wake interactions at a tidal stream energy site. <i>Applied Ocean Research</i> , 2020, 95, 102009.	1.8	12
61	The challenges of constraining shelf sea tidal models using seabed sediment grain size as a proxy for tidal currents. <i>Continental Shelf Research</i> , 2020, 205, 104165.	0.9	12
62	The role of wind in controlling the connectivity of blue mussels ( <i>Mytilus edulis</i> L.) populations. <i>Movement Ecology</i> , 2022, 10, 3.	1.3	12
63	In situ measurements of spring-neap variations to unsteady island wake development in the Firth of Forth, Scotland. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 60, 229-239.	0.9	11
64	Some numerical aspects of modelling flow around hydraulic structures using incompressible SPH. <i>Computers and Mathematics With Applications</i> , 2015, 69, 1470-1483.	1.4	11
65	Characterizing the Great Lakes hydrokinetic renewable energy resource: Lake Erie wave, surge and seiche characteristics. <i>Energy</i> , 2017, 128, 661-675.	4.5	11
66	Comparison of 4- and 5-beam acoustic Doppler current profiler configurations for measurement of turbulent kinetic energy. <i>Energy Procedia</i> , 2017, 125, 260-267.	1.8	11
67	Tidal range energy resource assessment of the Gulf of California, Mexico. <i>Renewable Energy</i> , 2020, 155, 469-483.	4.3	11
68	Drone-based large-scale particle image velocimetry applied to tidal stream energy resource assessment. <i>Renewable Energy</i> , 2022, 196, 839-855.	4.3	10
69	A numerical study of lateral grain size sorting by an estuarine front. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 81, 345-352.	0.9	9
70	Environmental drivers of small scale spatial variation in the reproductive schedule of a commercially important bivalve mollusc. <i>Marine Environmental Research</i> , 2013, 92, 144-153.	1.1	9
71	Spatio-temporal variability of tidal-stream energy in north-western Europe. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190493.	1.6	8
72	The influence of wind gustiness on estimating the wave power resource. <i>International Journal of Marine Energy</i> , 2013, 3-4, e1-e10.	1.8	6

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73	The Influence of Intra-Array Wake Dynamics on Depth-Averaged Kinetic Tidal Turbine Energy Extraction Simulations. <i>Energies</i> , 2018, 11, 2852.	1.6	6
74	Wave Energy. , 2018, , 107-140.		6
75	The Impact of Marine Renewable Energy Extraction on Sediment Dynamics. , 2017, , 279-304.		5
76	In Situ and Remote Methods for Resource Characterization. , 2018, , 157-191.		5
77	Tidal Energy. , 2018, , 47-81.		5
78	Environmental Issues for Offshore Renewable Energy. , 2021, , .		4
79	Salinity Gradient Power. , 2022, , 50-79.		3
80	Sensitivity assessment of bathymetry and choice of tidal constituents on tidal-stream energy resource characterisation in the Gulf of California, Mexico. <i>Applied Ocean Research</i> , 2020, 102, 102281.	1.8	1
81	Ocean Renewable Energy Test Centers. , 2022, , 123-148.		1
82	Introduction to Ocean Renewable Energy. , 2021, , .		1
83	Impact of Tidal Stream Turbines on Sand Bank Dynamics. , 2011, , .		1
84	Hydrokinetic energy conversion: A global riverine perspective. <i>Journal of Renewable and Sustainable Energy</i> , 2022, 14, .	0.8	1