

# Nicolas Guillou

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

748  
citations

516561

16  
h-index

580701

25  
g-index

47  
all docs

47  
docs citations

47  
times ranked

626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Annual and seasonal variabilities in the performances of wave energy converters. <i>Energy</i> , 2018, 165, 812-823.	4.5	61
2	Numerical modelling of nearshore wave energy resource in the Sea of Iroise. <i>Renewable Energy</i> , 2015, 83, 942-953.	4.3	56
3	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
4	Wave Energy Resource Assessment for Exploitation – A Review. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 705.	1.2	52
5	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
6	Wake field study of tidal turbines under realistic flow conditions. <i>Renewable Energy</i> , 2020, 151, 1196-1208.	4.3	37
7	Estimating wave energy flux from significant wave height and peak period. <i>Renewable Energy</i> , 2020, 155, 1383-1393.	4.3	34
8	Evaluation of wave energy potential in the Sea of Iroise with two spectral models. <i>Ocean Engineering</i> , 2015, 106, 141-151.	1.9	26
9	Seasonal monitoring of blue mussel ( <i>Mytilus</i> spp.) populations in a harbor area: A focus on responses to environmental factors and chronic contamination. <i>Marine Environmental Research</i> , 2017, 129, 24-35.	1.1	25
10	The impact of seabed rock roughness on tidal stream power extraction. <i>Energy</i> , 2016, 112, 762-773.	4.5	23
11	Machine learning methods applied to sea level predictions in the upper part of a tidal estuary. <i>Oceanologia</i> , 2021, 63, 531-544.	1.1	22
12	Numerical simulation of tide-induced transport of heterogeneous sediments in the English Channel. <i>Continental Shelf Research</i> , 2010, 30, 806-819.	0.9	19
13	Modelling effects of tidal currents on waves at a tidal stream energy site. <i>Renewable Energy</i> , 2017, 114, 180-190.	4.3	19
14	Assessing the impact of tidal stream energy extraction on the Lagrangian circulation. <i>Applied Energy</i> , 2017, 203, 321-332.	5.1	19
15	Assessment of wave power variability and exploitation with a long-term hindcast database. <i>Renewable Energy</i> , 2020, 154, 1272-1282.	4.3	19
16	Observed vs. predicted variability in non-algal suspended particulate matter concentration in the English Channel in relation to tides and waves. <i>Geo-Marine Letters</i> , 2012, 32, 139-151.	0.5	17
17	The impact of tides and waves on near-surface suspended sediment concentrations in the English Channel. <i>Oceanologia</i> , 2017, 59, 28-36.	1.1	15
18	Three-dimensional modeling of tide-induced suspended transport of seabed multicomponent sediments in the eastern English Channel. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14

#	ARTICLE	IF	CITATIONS
19	Effects of waves on the initiation of headland-associated sandbanks. <i>Continental Shelf Research</i> , 2011, 31, 1202-1213.	0.9	14
20	Wave-energy dissipation by bottom friction in the English Channel. <i>Ocean Engineering</i> , 2014, 82, 42-51.	1.9	13
21	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
22	Three-dimensional modelling of turbine wake interactions at a tidal stream energy site. <i>Applied Ocean Research</i> , 2020, 95, 102009.	1.8	12
23	Construction of Multi-Year Time-Series Profiles of Suspended Particulate Inorganic Matter Concentrations Using Machine Learning Approach. <i>Remote Sensing</i> , 2017, 9, 1320.	1.8	11
24	Tidal Turbines™ Layout in a Stream with Asymmetry and Misalignment. <i>Energies</i> , 2017, 10, 1892.	1.6	11
25	The Tidal Stream Energy Resource of the Fromveur Strait™ A Review. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 1037.	1.2	11
26	Modelling impact of northerly wind-generated waves on sediments resuspensions in the Dover Strait and adjacent waters. <i>Continental Shelf Research</i> , 2011, 31, 1894-1903.	0.9	10
27	Modelling impact of bottom roughness on sea surface temperature in the Sea of Iroise. <i>Continental Shelf Research</i> , 2013, 54, 80-92.	0.9	10
28	Modeling Near-Surface Suspended Sediment Concentration in the English Channel. <i>Journal of Marine Science and Engineering</i> , 2015, 3, 193-215.	1.2	10
29	Turbines™ effects on water renewal within a marine tidal stream energy site. <i>Energy</i> , 2019, 189, 116113.	4.5	10
30	Modeling the Tide-Induced Modulation of Wave Height in the Outer Seine Estuary. <i>Journal of Coastal Research</i> , 2012, 28, 613.	0.1	8
31	Modeling Penetration of Tide-Influenced Waves in Le Havre Harbor. <i>Journal of Coastal Research</i> , 2012, 28, 945.	0.1	8
32	Sea surface temperature modelling in the Sea of Iroise: assessment of boundary conditions. <i>Ocean Dynamics</i> , 2013, 63, 849-863.	0.9	8
33	On Tidal Current Velocity Vector Time Series Prediction: A Comparative Study for a French High Tidal Energy Potential Site. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 46.	1.2	8
34	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
35	Blockage Corrections for Tidal Turbines™ Application to an Array of Turbines in the Alderney Race. <i>Energies</i> , 2022, 15, 3475.	1.6	8
36	Modelling dynamics and exchanges of fine sediments in the bay of Brest. <i>Houille Blanche</i> , 2014, , 47-53.	0.3	5

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37	The Efficiency of a Fence of Tidal Turbines in the Alderney Race: Comparison between Analytical and Numerical Models. <i>Energies</i> , 2021, 14, 892.	1.6	5
38	On nodal modulations of tidal-stream energy resource in north-western Europe. <i>Applied Ocean Research</i> , 2022, 121, 103091.	1.8	4
39	An Observing System Simulation Experiment (OSSE) in Deriving Suspended Sediment Concentrations in the Ocean From MTG/FCI Satellite Sensor. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5423-5433.	2.7	2
40	Observation multiparamètres automatique par navire d'opportunités le long du continuum terre-mer de la rade de Brest et de la mer d'Iroise. , 2012, , .		2
41	Effets d'une houle de tempête sur les mises en suspension des sédiments de fond dans le détroit du Pas-de-Calais. <i>European Journal of Environmental and Civil Engineering</i> , 2010, 14, 163-179.	1.0	1
42	A comparative study for tidal current velocity prediction using simplified and fast algorithms. <i>Applied Ocean Research</i> , 2020, 104, 102346.	1.8	1
43	Influence des niveaux d'eau et des courants de marée sur la hauteur de houle dans l'estuaire de la Seine. <i>Houille Blanche</i> , 2011, 97, 49-55.	0.3	0
44	EFFECTS OF TIDE ON WAVES IN THE OUTER SEINE ESTUARY AND THE HARBOR OF LE HAVRE. <i>Coastal Engineering Proceedings</i> , 2012, 1, 47.	0.1	0
45	Modeling of Seabed Sediments Resuspension in the Dover Strait. , 0, , 323-330.		0
46	Evaluating the Effects of Tidal Turbines on Water-Mass Transport with the Lagrangian Barycentric Method. <i>Springer Water</i> , 2020, , 217-233.	0.2	0