

# 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  | On nodal modulations of tidal-stream energy resource in north-western Europe. <i>Applied Ocean Research</i> , 2022, 121, 103091.  | 1.8 | 4         |
| 2  | Blockage Corrections for Tidal Turbines – Application to an Array of Turbines in the Alderney Race. <i>Energies</i> , 2022, 15, 3475.   | 1.6 | 8         |
| 3  | 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         |
| 4  | 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         |
| 5  | 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        |
| 6  | Three-dimensional modelling of turbine wake interactions at a tidal stream energy site. <i>Applied Ocean Research</i> , 2020, 95, 102009.   | 1.8 | 12        |
| 7  | Wake field study of tidal turbines under realistic flow conditions. <i>Renewable Energy</i> , 2020, 151, 1196-1208.   | 4.3 | 37        |
| 8  | Wave Energy Resource Assessment for Exploitation – A Review. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 705.   | 1.2 | 52        |
| 9  | 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         |
| 10 | 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        |
| 11 | 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        |
| 12 | Assessment of wave power variability and exploitation with a long-term hindcast database. <i>Renewable Energy</i> , 2020, 154, 1272-1282.   | 4.3 | 19        |
| 13 | Estimating wave energy flux from significant wave height and peak period. <i>Renewable Energy</i> , 2020, 155, 1383-1393.   | 4.3 | 34        |
| 14 | A comparative study for tidal current velocity prediction using simplified and fast algorithms. <i>Applied Ocean Research</i> , 2020, 104, 102346.  | 1.8 | 1         |
| 15 | 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         |
| 16 | Turbines – effects on water renewal within a marine tidal stream energy site. <i>Energy</i> , 2019, 189, 116113.  | 4.5 | 10        |
| 17 | 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         |
| 18 | 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        |

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|----|---|-----|-----------|
| 19 | Annual and seasonal variabilities in the performances of wave energy converters. <i>Energy</i> , 2018, 165, 812-823.  | 4.5 | 61        |
| 20 | 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        |
| 21 | Modelling effects of tidal currents on waves at a tidal stream energy site. <i>Renewable Energy</i> , 2017, 114, 180-190.   | 4.3 | 19        |
| 22 | Assessing the impact of tidal stream energy extraction on the Lagrangian circulation. <i>Applied Energy</i> , 2017, 203, 321-332.   | 5.1 | 19        |
| 23 | 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        |
| 24 | 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        |
| 25 | Tidal Turbines™ Layout in a Stream with Asymmetry and Misalignment. <i>Energies</i> , 2017, 10, 1892.   | 1.6 | 11        |
| 26 | The impact of seabed rock roughness on tidal stream power extraction. <i>Energy</i> , 2016, 112, 762-773.   | 4.5 | 23        |
| 27 | 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        |
| 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 | 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        |
| 30 | Numerical modelling of nearshore wave energy resource in the Sea of Iroise. <i>Renewable Energy</i> , 2015, 83, 942-953.  | 4.3 | 56        |
| 31 | Modelling dynamics and exchanges of fine sediments in the bay of Brest. <i>Houille Blanche</i> , 2014, , 47-53.   | 0.3 | 5         |
| 32 | Wave-energy dissipation by bottom friction in the English Channel. <i>Ocean Engineering</i> , 2014, 82, 42-51.  | 1.9 | 13        |
| 33 | 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        |
| 34 | Sea surface temperature modelling in the Sea of Iroise: assessment of boundary conditions. <i>Ocean Dynamics</i> , 2013, 63, 849-863.   | 0.9 | 8         |
| 35 | 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         |
| 36 | Modeling Penetration of Tide-Influenced Waves in Le Havre Harbor. <i>Journal of Coastal Research</i> , 2012, 28, 945.   | 0.1 | 8         |

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|----|---|-----|-----------|
| 37 | 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        |
| 38 | 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         |
| 39 | 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         |
| 40 | Effects of waves on the initiation of headland-associated sandbanks. <i>Continental Shelf Research</i> , 2011, 31, 1202-1213.   | 0.9 | 14        |
| 41 | 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        |
| 42 | 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         |
| 43 | 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        |
| 44 | 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         |
| 45 | 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        |
| 46 | Modeling of Seabed Sediments Resuspension in the Dover Strait. , 0, , 323-330.  |     | 0         |