

Abrégé	Auteurs	Titre	Nom du journal	Références (volume, pages)	Année	Hyperlien
Araignous et al., 2023	Araignous E., Safi G., Kervella Y., Michelet N., Luxcey N., Duarte R., Isorna R. & Nava V.	Environmental and social acceptance module: reducing global and local environmental impacts for ocean energy projects	International Marine Energy Journal	Vol. 6, pp. 63-90	2023	https://doi.org/10.36688/imej.6.63-90
Portas et al., 2023	Portas A., Carriot N., Ortalo-Magné A., Damblans G., Thiébaud M., Culloli G., Quillien N. & Briand J.F.	Impact of hydrodynamics on community structure and metabolic production of marine biofouling formed in a highly energetic estuary	Marine Environmental Research	Vol. 192, 106241	2023	https://doi.org/10.1016/j.marenvres.2023.106241
Signor et al., 2023	Signor J., Damblans G., Schoefs F. & Quillien N.	Automatic Classification of Biofouling Images from Offshore Renewable Energy Structures Using Deep Learning	Ocean Engineering	Vol. 288, 115928	2023	https://doi.org/10.1016/j.oceaneng.2023.115928
Andrzajczek et al., 2022	Andrzajczek S., Lucas F.C.D., Gboudram M.C., Hussey N.E., Armstrong A.J., Carlisle A., Coffey D.M., Gleiss A.C., Muesener C., Jacob D.M., Meake M.C., Mewler L., Post	Diving into the vertical dimension of elasmobranch movement ecology	Sciences advances	Vol. 8, eabo1754	2022	https://doi.org/10.1126/sciadv.abo1754
Bain et al., 2022	Bain C., Davies P., Riou L., Marco Y., Bles G. & Damblans G.	Experimental evaluation of the main parameters influencing friction between polyamide fibers and influence of friction on the abrasion resistance	The Journal of The Textile Institute		2022	https://doi.org/10.1080/00405000.2022.2105075
Civier et al., 2022	Civier L., Chevillotte Y., Bles G., Montel F., Davies P. & Marco Y.	Short and long term creep behaviour of polyamide ropes for mooring applications	Ocean Engineering	Vol. 259, 111800	2022	https://doi.org/10.1016/j.oceaneng.2022.111800
Portas et al., 2022	Portas A., Quillien N., Culloli G. & Briand J.F.	Eukaryotic diversity of marine biofouling from coastal to offshore areas	Frontiers in Marine Science	Vol. 9, 971939	2022	https://doi.org/10.3389/fmars.2022.971939
Thiébaud et al., 2022	Thiébaud M., Quillien N., Maison A., Gaborieau H., Ruiz N., Mackenzie S., Connor G., Filpot J.F.	Investigating the flow dynamics and turbulence at a tidal-stream energy site in a highly energetic estuary	Renewable Energy	Vol. 195, pp. 252-262	2022	https://doi.org/10.1016/j.renene.2022.06.020
Apolonia et al., 2021	Apolonia M., Fofack-Garcia R., Noble D.R., Hodges J. & Correia da Fonseca F.X.	Legal and political barriers and enablers to the deployment of marine renewable energy	Energies	Vol. 14, 4896	2021	https://doi.org/10.3390/en14164896
Bourgoin et al., 2021	Bourgoin A., Guillou S.S., Thiébot J. & Ata R.	Use of Large-Eddy Simulation for the bed shear stress estimation over a dune	International Journal of Sediment Research	Vol. 36, pp. 687-695	2021	https://doi.org/10.1016/j.ijsr.2019.10.002
Correia da Fonseca et al., 2021	Correia da Fonseca F.X., Amaral L. & Chainho P.	A Decision Support Tool for Long-Term Planning of Marine Operations in Ocean Energy Projects	Journal of Marine Science and Engineering	Vol. 9, 810	2021	https://doi.org/10.3390/jmse9080810
Kerr et al., 2021	Kerr P., Noble D.R., Hodges J. & Jeffrey H.	Implementing Radical Innovation in Renewable Energy Experience Curves	Energies	Vol. 14, 2364	2021	https://doi.org/10.3390/en14092364
Makassi et al., 2021	Makassi Z., Garnier B., El Moctar A.O. & Schoefs F.	Caractérisation thermique du biofouling autour d'un câble électrique dynamique sous-marin	Actes du Congrès Français de Thermique 2021	8 p.	2021	https://doi.org/10.25855/SFT2021-038
Marty et al., 2021 (a)	Marty A., Berhaut C., Damblans G., Faq J.V., Gaurier B., Germain G., Soulard T. & Schoefs F.	Experimental study of hard marine growth effect on the hydrodynamical behaviour of a submarine cable	Applied Ocean Research	Vol. 114, 102810	2021	https://doi.org/10.1016/j.apor.2021.102810
Marty et al., 2021 (b)	Marty A., Schoefs F., Soulard T., Berhaut C., Faq J.-V., Gaurier B. & Germain G.	Effect of roughness of mussels on cylinder forces from a realistic shape modelling	Journal of Marine Science and Engineering	Vol. 9, 598	2021	https://doi.org/10.3390/jmse9060598
Mercier et al., 2021	Mercier P., Thiébaud M., Guillou S., Maisondieu C., Poizot E., Pieterse A., Thiébot J., Filpot J.F. & Grondeau M.	Turbulence measurements: An assessment of Acoustic Doppler Current Profiler accuracy in rough environment	Ocean Engineering	Vol. 226, 108819	2021	https://doi.org/10.1016/j.oceaneng.2021.108819
Roberts et al., 2021	Roberts O., Henderson J.C., Garcia-Teruel A., Noble D.R., Tunga I., Hodges J., Jeffrey H. & Hurst T.	Bringing Structure to the Wave Energy Innovation Process with the Development of a Techno-Economic Tool	Energies	Vol. 14, 8201	2021	https://doi.org/10.3390/en14248201
Tunga et al., 2021	Tunga I., Garcia-Teruel A., Noble D.R. & Henderson J.	Addressing European Ocean Energy Challenge: The DTOceanPlus Structured Innovation Tool for Concept Creation and Selection.	Energies	Vol. 14, 5988	2021	https://doi.org/10.3390/en14185988
Yang & Sønderkær Nielsen, 2021	Yang Y. & Sønderkær Nielsen J.	Availability-Based Selection of Electricity Delivery Network in Marine Conversion Systems Using Bayesian Network	Energies	Vol. 14, 3574	2021	https://doi.org/10.3390/en14123574
Bailly du Bois et al., 2020	Bailly du Bois P., Dumas F., Morillon M., Furgerot L., Voiseux C., Poizot E., Méar Y. & Bennis A.C.	The Alderney Race: general hydrodynamic and particular features	Philosophical Transactions of the Royal Society A	Vol. 378, 20190492	2020	https://doi.org/10.1098/rsta.2019.0492
Bennis et al., 2020	Bennis A.C., Furgerot L., Du Bois P.B., Dumas F., Odaka T., Lathuilliere C. & Filpot J.F.	Numerical modelling of three-dimensional wave-current interactions in complex environment: Application to Alderney Race	Applied Ocean Research	Vol. 95, 102021	2020	https://doi.org/10.1016/j.apor.2019.102021
Chevillotte et al., 2020	Chevillotte Y., Marco Y., Bles G., Devos K., Keryer M., Arhant M. & Davies P.	Fatigue of improved polyamide mooring ropes for floating wind turbines	Ocean Engineering	Vol. 199, 107011	2020	https://doi.org/10.1016/j.oceaneng.2020.107011
Furgerot et al., 2020	Furgerot L., Sentchev A., Bailly du Bois P., Lopez G., Morillon M., Poizot E., Méar Y. & Bennis A.C.	One year of measurements in Alderney Race: preliminary results from database analysis	Philosophical Transactions of the Royal Society A	Vol. 378, 20190625	2020	https://doi.org/10.1098/rsta.2019.0625
Grangeat et al., 2020	Grangeat R., Girard R., Lupi C., Leduc D. & Jacquemin F.	Measurement of the local water content of an epoxy adhesive by fiber optic sensor based on Fresnel reflection	Mechanical Systems and Signal Processing	Vol. 141, 106439	2020	https://doi.org/10.1016/j.ymssp.2019.106439
Grangeat et al., 2020	Grangeat R., Girard R., Jacquemin F. & Lupi C.	Method of characterizing the interphase's mean water diffusion properties of a bonded assembly in immersion	The Journal of Adhesion	Vol. 21, pp. 1-20	2020	https://doi.org/10.1080/00218464.2020.1828080
Leplat et al., 2020	Leplat J., Stamoulis G., Bidaud P. & Thévenet D.	Investigation of the mode I fracture properties of adhesively bonded joints after water ageing	The Journal of Adhesion	Vol. 21, pp. 1-22	2020	https://doi.org/10.1080/00218464.2020.1818561
Lopez et al., 2020	Lopez G., Bennis A.C., Barbin Y., Sentchev A., Benoît L. & Marié L.	Surface currents in the Alderney Race from high-frequency radar measurements and three-dimensional modelling	Philosophical Transactions of the Royal Society A	Vol. 378, 20190494	2020	https://doi.org/10.1098/rsta.2019.0494
Marty et al., 2020	Marty A., Berhaut C., Damblans G., Faq J.V., Gaurier B., Germain G., Soulard T. & Schoefs F.	Marine growth effect on the hydrodynamical behavior of a submarine cable under current and wave conditions	Actes des 17èmes Journées de l'Hydrodynamique	12 p.	2020	https://archimer.ifremer.fr/doc/00660/77245/78697.pdf
Ruiz-Minguela et al., 2020	Ruiz-Minguela P., Nava V., Hodges J. & Blanco J.M.	Review of Systems Engineering (SE) Methods and Their Application to Wave Energy Technology Development	Journal of Marine Science and Engineering	Vol. 8, 823	2020	https://doi.org/10.3390/jmse8100823
Sentchev et al., 2020	Sentchev A., Thiébot J., Bennis A.C. & Piggott M.	New insights on tidal dynamics and tidal energy harvesting in the Alderney Race	Philosophical Transactions of the Royal Society A	Vol. 378, 20190490	2020	https://doi.org/10.1098/rsta.2019.0490
Sentchev et al., 2020	Sentchev A., Thiébaud M. & Guillou S.	Turbulence characterization at tidal-stream energy site in Alderney Race	Developments in Renewable Energies Offshore	pp. 616-623	2020	https://www.researchgate.net/publication/345373984_Turbulence_characterization_at_tidal-stream_energy_site_in_Alderney_Race
Taormina et al., 2020 (a)	Taormina B., Di Poi C., Agnalt A.L., Carlier A., Desroy N., Escobar-Lux R.H., D'eu J.F., Freydet F. & Duriff C.M.F.	Impact of magnetic fields generated by AC/DC submarine power cables on the behavior of juvenile European lobster (<i>Homarus gammarus</i>)	Aquatic Toxicology	Vol. 220, 105401	2020	https://doi.org/10.1016/j.aquatox.2019.105401
Taormina et al., 2020 (b)	Taormina B., Percheron A., Marzloff M.P., Caisey X., Quillien N., Lejart M., Desroy N., Dugornay O., Tancray A. & Carlier A.	Succession in epibenthic communities on artificial reefs associated with marine renewable energy facilities within a tide-swept environment	ICES Journal of Marine Science	Vol. 77, pp. 2656-2668	2020	https://doi.org/10.1093/icesjms/fsaa129
Taormina et al., 2020 (c)	Taormina B., Laurans M., Marzloff M.P., Dufournaud N., Lejart M., Desroy N., Leroy D., Martin S. & Carlier A.	Renewable energy homes for marine life: Habitat potential of a tidal energy project for benthic megafauna	Marine Environmental Research	Vol. 161, 105131	2020	https://doi.org/10.1016/j.marenvres.2020.105131
Taormina et al., 2020 (d)	Taormina B., Marzloff M.P., Desroy N., Caisey X., Dugornay O., Metral Thiesse E., Tancray A. & Carlier A.	Optimizing image-based protocol to monitor macroepibenthic communities colonizing artificial structures	ICES Journal of Marine Science	Vol. 77, pp.835-845	2020	https://doi.org/10.1093/icesjms/fsz249

Thiébaud et al., 2020	Thiébaud M., Fillpot J.F., Maisondieu C., Damblans G., Duarte R., Droniou E., Chaplain N. & Guillou S.	A comprehensive assessment of turbulence at a tidal-stream energy site influenced by wind-generated ocean waves	Energy	Vol. 191, 116550	2020	https://doi.org/10.1016/j.energy.2019.116550
Thiébaud et al., 2020	Thiébaud M., Fillpot J.F., Maisondieu C., Damblans G., Duarte R., Droniou E. & Guillou S.	Assessing the turbulent kinetic energy budget in an energetic tidal flow from measurements of coupled ADCPs	Philosophical Transactions of the Royal Society A	Vol. 378, 20190496	2020	https://doi.org/10.1098/rsta.2019.0496
Thiébaud et al., 2020	Thiébaud M., Fillpot J.F., Maisondieu C., Damblans G., Jochim C., Klicher L.F. & Guillou S.	Characterization of the vertical evolution of the 3D turbulence for fatigue design of tidal turbines	Philosophical Transactions of the Royal Society A	Vol. 378, 20190495	2020	https://doi.org/10.1098/rsta.2019.0495
Thiébaud et al., 2020	Thiébaud M., Coles D.S., Bennis A.C., Guillou N., Neill S., Guillou S. & Piggett M.	Numerical modelling of hydrodynamics and tidal energy extraction in the Alderney Race: a review	Philosophical Transactions of the Royal Society A	Vol. 378, 20190498	2020	https://doi.org/10.1098/rsta.2019.0498
Villate et al., 2020	Villate J.L., Ruiz-Minguela P., Pérez-Morán G., Nava V. & Robles E.	Design tools for offshore renewable energy	DYNA Ingenieria e Industria	Vol. 95, pp. 601-605	2020	http://hdl.handle.net/11556/1017
Yang & Sørensen, 2020	Yang Y. & Sørensen J.D.	Probabilistic Availability Analysis for Marine Energy Transfer Subsystem Using Bayesian Network	Energies	Vol. 13, 5108	2020	https://doi.org/10.3390/en13195108
Gervaise et al., 2019	Gervaise C., Lossent J., Valentini-Poirier C.A., Boissery P., Noel C. & Di Iorio L.	Three-dimensional mapping of the benthic invertebrates biophony with a compact four-hydrophones array	Applied Acoustics	Vol. 148, pp.175-193	2019	https://doi.org/10.1016/j.apacoust.2018.12.025
Grangeat et al., 2019	Grangeat R., Girard M., Lupi C., Leduc D. & Jacquemin F.	Revealing of interphases in bonded joints with a fiber optic sensor based on Fresnel reflection	International Journal of Adhesion and Adhesives	Vol. 91, pp.12-18	2019	https://doi.org/10.1016/j.ijadhadh.2019.02.009
Maison et al., 2019	Maison A., Damblans G., Berhaut C., Franchet M., Cartraud P., Menard F., Demmouche Y. & Germain G.	An Experimental and Modelling Approach for Assessing Dynamic Cable Capability to Withstand Operational Constraints	JICABLE'19 - 10th International Conference on Power Insulated Cables	Sess. B8-3, 6 p.	2019	http://www.jicable.org/TOUT_JICABLE_FIRST_PAGE/2019/2019-B8-3_page1.pdf
Pham et al., 2019	Pham H.D., Cartraud P., Schoefs F., Soulard T. & Berhaut C.	Dynamic modeling of nylon mooring lines for a floating wind turbine	Applied Ocean Research	Vol. 87,p p.1-8	2019	https://doi.org/10.1016/j.apor.2019.03.013
Pham et al., 2019	Pham H.D., Schoefs F., Cartraud P., Soulard T., Pham H.H. & Berhaut C.	Methodology for modeling and service life monitoring of mooring lines of floating wind turbines	Ocean Engineering	Vol. 193, 106603	2019	https://doi.org/10.1016/j.oceaneng.2019.106603
Thiébaud et al., 2019	Thiébaud M., Sentchev A. & Du Bois P.B.	Merging velocity measurements and modeling to improve understanding of tidal stream resource in Alderney Race	Energy	Vol. 178, pp.460-470	2019	https://doi.org/10.1016/j.energy.2019.04.171
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Chevillotte et al., 2018	Chevillotte Y., Marco Y., Davies P., Bles G. & Arhant M.	Fatigue of polyamide mooring ropes for floating wind turbines	MATEC Web of Conferences	Vol. 165, 10002	2018	https://doi.org/10.1051/mateconf/201816510002
Duarte et al., 2018	Duarte R., Charbonier K., Lejart M., Monbet P. & Fillpot J.P.	Development of an Environmental Impact Assessment Module (EIAM) in the DTOcean project	Proceedings of the International Conference on Ocean Energy 2018	6 p.	2018	https://www.iceo-conference.com/publication/development-of-an-environmental-impact-assessment-module-eiam-in-the-dtocean-project/
Ikhennicheu et al., 2018	Ikhennicheu M., Gaurier B., Druault P. & Germain G.	Experimental analysis of the floor inclination effect on the turbulent wake developing behind a wall mounted cube	European Journal of Mechanics-B/Fluids	Vol. 72, pp.340-352	2018	https://doi.org/10.1016/j.euromechflu.2018.07.003
Kuznetsov et al., 2018	Kuznetsov K., Harris J., Germain N. & Aristodemo F.	Modification of a Wake model for hydrodynamic forces on submarine cables with a rough seabed	Proceedings from 20th EGU General Assembly (EGU2018)	p.19847	2018	https://ui.adsabs.harvard.edu/#abs/2018EGUGA...2019847K/abstract
Lossent et al., 2018	Lossent J., Lejart M., Follegt T., Clorennec D., Di Iorio L. & Gervaise C.	Underwater operational noise level emitted by a tidal current turbine and its potential impact on marine fauna	Marine Pollution Bulletin	Vol. 131, pp.323-334	2018	https://doi.org/10.1016/j.marpolbul.2018.03.024
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Taormina et al., 2018	Taormina B., Bald J., Want A., Thouzeau G., Lejart M., Desroy N. & Carlier A.	A review of potential impacts of submarine power cables on the marine environment: Knowledge gaps, recommendations and future directions	Renewable and Sustainable Energy Reviews	Vol. 96, pp.380-391	2018	https://doi.org/10.1016/j.rser.2018.07.026
Coquereau et al., 2017	Coquereau L., Lossent J., Grall J. & Chauvaud L.	Marine soundscape shaped by fishing activity	Royal Society open science	Vol. 4, 160606	2017	https://doi.org/10.1098/rsos.160606
Lossent et al., 2017	Lossent J., Di Iorio L., Valentini-Poirier C.A., Boissery P. & Gervaise C.	Mapping the diversity of spectral shapes discriminates between adjacent benthic biophonies	Marine Ecology Progress Series	Vol. 585, pp.31-48	2017	https://doi.org/10.3354/meps12370
Pinon et al., 2017	Pinon G., Hurst M.F. & Lukeba E.	Semi-analytical estimate of energy production from a tidal turbine farm with the account of ambient turbulence	International Journal of marine energy	Vol. 19, pp. 70-82	2017	https://doi.org/10.1016/j.ijome.2017.05.003
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Autret et al., 2016	Autret K., Dodel G., Pichard B., Suarez S., David L., Leckler F., Ardhuin F., Ammann J., Grandjean P., Allemand P. & Fillpot J.F.	A comprehensive hydro-geomorphic study of cliff-top storm deposits on Banneg Island during winter 2013–2014	Marine Geology	Vol. 382, pp. 37-55	2016	http://dx.doi.org/10.1016/j.margeo.2016.09.014
Fillpot et al., 2016	Fillpot J.F.	Investigation of the Bottom-Slope Dependence of the Nonlinear Wave Evolution toward Breaking Using SWASH	Journal of Coastal Research	Vol. 32, pp.1504-1507	2016	https://doi.org/10.2112/JCOASTRES-D-15-00118.1
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Fillpot et al., 2014	Fillpot J.F., Delafosse C., Marzin t. & Baston S.	On the modeling errors in the tidal power assessment	Proceedings of the International Conference on Ocean Energy 2014	7 p.	2014	https://archimer.ifremer.fr/doc/00230/34114/32569.pdf
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Karimirad et al., 2014	Karimirad M., Koushan K., Weller S., Hardwick J. & Johanning L.	Applicability of offshore mooring and foundation technologies for marine renewable energy (MRE) device arrays	Proceedings of the International Conference on Renewable Energies Offshore 2014	8 p.	2014	https://www.dtoceanplus.eu/content/download/2538/file/Karimirad_et_al_2014.pdf
Teillant et al., 2014	Teillant B., Chainho P., Raventos A., Nava V. & Jeffrey H.	A methodology for the development of a numerical tool for the lifecycle logistics of ocean energy arrays	Proceedings of the International Conference on Ocean Energy 2014	8 p.	2014	https://www.iceo-conference.com/publication/a-decision-supporting-tool-for-the-lifestyle-logistics-of-ocean-energy-array/