

Franck Dumas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10714580/publications.pdf>

Version: 2024-02-01

45
papers

1,652
citations

331670

21
h-index

289244

40
g-index

46
all docs

46
docs citations

46
times ranked

2212
citing authors

#	ARTICLE	IF	CITATIONS
1	An external-internal mode coupling for a 3D hydrodynamical model for applications at regional scale (MARS). <i>Advances in Water Resources</i> , 2008, 31, 233-250.	3.8	362
2	Numerical Wave Modeling in Conditions with Strong Currents: Dissipation, Refraction, and Relative Wind. <i>Journal of Physical Oceanography</i> , 2012, 42, 2101-2120.	1.7	114
3	Sea-level rise impacts on the tides of the European Shelf. <i>Continental Shelf Research</i> , 2017, 137, 56-71.	1.8	105
4	On the coupling of wave and three-dimensional circulation models: Choice of theoretical framework, practical implementation and adiabatic tests. <i>Ocean Modelling</i> , 2011, 40, 260-272.	2.4	91
5	Development of a hydrodynamic model of the Bay of Biscay. Validation of hydrology. <i>Continental Shelf Research</i> , 2009, 29, 985-997.	1.8	89
6	Surface layer circulation derived from Lagrangian drifters in the Bay of Biscay. <i>Journal of Marine Systems</i> , 2013, 109-110, S60-S76.	2.1	74
7	Modelling green macroalgal blooms on the coasts of Brittany, France to enhance water quality management. <i>Journal of Marine Systems</i> , 2014, 132, 38-53.	2.1	74
8	Modelling larval dispersal and settlement of the reef-building polychaete <i>Sabellaria alveolata</i> : Role of hydroclimatic processes on the sustainability of biogenic reefs. <i>Continental Shelf Research</i> , 2009, 29, 1605-1623.	1.8	54
9	A modelling study of the respective role of hydrodynamic processes and larval mortality on larval dispersal and recruitment of benthic invertebrates: example of <i>Pectinaria koreni</i> (Annelida: Tj ETQq1 1 0.784314 rgBT /Overløsk 10 T	1.8	49
10	Impact of winter storms on sediment erosion in the Rhone River prodelta and fate of sediment in the Gulf of Lions (North Western Mediterranean Sea). <i>Continental Shelf Research</i> , 2014, 72, 57-72.	1.8	49
11	Estimating the Lagrangian residual circulation in the Iroise Sea. <i>Journal of Marine Systems</i> , 2009, 78, S17-S36.	2.1	47
12	Larval connectivity of pearl oyster through biophysical modelling; evidence of food limitation and broodstock effect. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 182, 283-293.	2.1	36
13	Larval Dispersal Modeling of Pearl Oyster <i>Pinctada margaritifera</i> following Realistic Environmental and Biological Forcing in Ahe Atoll Lagoon. <i>PLoS ONE</i> , 2014, 9, e95050.	2.5	35
14	Modelling larval dispersal of the king scallop (<i>Pecten maximus</i>) in the English Channel: examples from the bay of Saint-Brieuc and the bay of Seine. <i>Ocean Dynamics</i> , 2013, 63, 661-678.	2.2	29
15	Ecological model of the Bay of Biscay and English Channel shelf for environmental status assessment part 1: Nutrients, phytoplankton and oxygen. <i>Ocean Modelling</i> , 2019, 133, 56-78.	2.4	27
16	Spatial patterns in coastal lagoons related to the hydrodynamics of seawater intrusion. <i>Marine Pollution Bulletin</i> , 2017, 119, 132-144.	5.0	26
17	Potential environmental drivers of a regional blue mussel mass mortality event (winter of 2014,) Tj ETQq1 1 0.784314 rgBT /Overløsk 10 T	1.6	26
18	Development of emergency response tools for accidental radiological contamination of French coastal areas. <i>Journal of Environmental Radioactivity</i> , 2016, 151, 487-494.	1.7	25

#	ARTICLE	IF	CITATIONS
19	Modelling larval dispersal of <i>Pecten maximus</i> in the English Channel: a tool for the spatial management of the stocks. <i>ICES Journal of Marine Science</i> , 2017, 74, 1812-1825.	2.5	24
20	Revisiting wild stocks of black lip oyster <i>Pinctada margaritifera</i> in the Tuamotu Archipelago: The case of Ahe and Takaroa atolls and implications for the cultured pearl industry. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 182, 243-253.	2.1	22
21	Inventory and distribution of tritium in the oceans in 2016. <i>Science of the Total Environment</i> , 2019, 656, 1289-1303.	8.0	22
22	Numerical modelling of three-dimensional wave-current interactions in complex environment: Application to Alderney Race. <i>Applied Ocean Research</i> , 2020, 95, 102021.	4.1	21
23	Circulation on the Armorican shelf (Bay of Biscay) in autumn. <i>Journal of Marine Systems</i> , 2008, 72, 218-237.	2.1	20
24	Cyclostrophic Corrections of AVISO/DUACS Surface Velocities and Its Application to Mesoscale Eddies in the Mediterranean Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8913-8932.	2.6	20
25	Circulation around La Réunion and Mauritius islands in the south-western Indian Ocean: A modeling perspective. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1957-1976.	2.6	19
26	Numerical modelling of hydraulic control, solitary waves and primary instabilities in the Strait of Gibraltar. <i>Ocean Modelling</i> , 2020, 151, 101642.	2.4	18
27	Identification of typical scenarios for the surface Lagrangian residual circulation in the Iroise Sea. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
28	High-resolution atmospheric forcing for regional oceanic model: the Iroise Sea. <i>Ocean Dynamics</i> , 2007, 57, 375-400.	2.2	15
29	Mixing parameterization: Impacts on rip currents and wave set-up. <i>Ocean Engineering</i> , 2014, 84, 213-227.	4.3	14
30	Numerical modelling of circulation and dispersion processes in Boulogne-sur-Mer harbour (Eastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1321-1340.	2.2	13
31	Objective assessment of the contribution of the RECOPECA network to the monitoring of 3D coastal ocean variables in the Bay of Biscay and the English Channel. <i>Ocean Dynamics</i> , 2016, 66, 567-588.	2.2	13
32	Designing optimal scenarios of nutrient loading reduction in a WFD/MSFD perspective by using passive tracers in a biogeochemical-3D model of the English Channel/Bay of Biscay area. <i>Ocean and Coastal Management</i> , 2018, 163, 37-53.	4.4	12
33	Tridimensional nonhydrostatic transient rip currents in a wave-resolving model. <i>Ocean Modelling</i> , 2021, 163, 101816.	2.4	11
34	Intensive use of Lagrangian trajectories to quantify coastal area dispersion. <i>Ocean Dynamics</i> , 2020, 70, 541-559.	2.2	10
35	Dissolved Radiotracers and Numerical Modeling in North European Continental Shelf Dispersion Studies (1982-2016): Databases, Methods and Applications. <i>Water (Switzerland)</i> , 2020, 12, 1667.	2.7	9
36	Seasonal and Interannual Variability of the CO ₂ System in the Eastern Mediterranean Sea: A Case Study in the North Western Levantine Basin. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	9

#	ARTICLE	IF	CITATIONS
37	Fine-Scale Ocean Currents Derived From in situ Observations in Anticipation of the Upcoming SWOT Altimetric Mission. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	8
38	Three-Dimensional Evolution of Mesoscale Anticyclones in the Lee of Crete. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	7
39	The Alderney Race: general hydrodynamic and particular features. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190492.	3.4	7
40	Impact of moderately energetic fine-scale dynamics on the phytoplankton community structure in the western Mediterranean Sea. <i>Biogeosciences</i> , 2021, 18, 6455-6477.	3.3	7
41	System for high-frequency simultaneous water sampling at several depths during sailing. <i>Ocean Engineering</i> , 2014, 91, 281-289.	4.3	5
42	PROTEVS-MED field experiments: very high resolution hydrographic surveys in the Western Mediterranean Sea. <i>Earth System Science Data</i> , 2020, 12, 441-456.	9.9	5
43	Spectral analysis of mean flow and turbulence forced by waves in a horizontally homogeneous zone of the Iroise sea. <i>Ocean Dynamics</i> , 2011, 61, 1887-1903.	2.2	4
44	Towards a Realistic Numerical Modelling of Wave-Current-Turbulence Interactions in Alderney Race. , 2018, , .		2
45	Un nouveau modÃ©le couplÃ© vagues-courant 3D : dÃ©veloppement et validation. <i>Revue Paralia</i> , 0, 6, 8.1-8.12.	0.0	1