

Fabien Roquet

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,304
citations

159585

30
h-index

168389

53
g-index

69
all docs

69
docs citations

69
times ranked

3374
citing authors

#	ARTICLE	IF	CITATIONS
1	Variations in behavior and condition of a Southern Ocean top predator in relation to <i>in situ</i> oceanographic conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13705-13710.	7.1	291
2	Antarctic Bottom Water production by intense sea-ice formation in the Cape Darnley polynya. <i>Nature Geoscience</i> , 2013, 6, 235-240.	12.9	246
3	Southern Ocean frontal structure and sea-ice formation rates revealed by elephant seals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11634-11639.	7.1	152
4	Technical Note: Animal-borne CTD-Satellite Relay Data Loggers for real-time oceanographic data collection. <i>Ocean Science</i> , 2009, 5, 685-695.	3.4	146
5	Large-scale circulation over and around the Northern Kerguelen Plateau. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 566-581.	1.4	131
6	Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	127
7	Circumpolar habitat use in the southern elephant seal: implications for foraging success and population trajectories. <i>Ecosphere</i> , 2016, 7, e01213.	2.2	126
8	The suppression of Antarctic bottom water formation by melting ice shelves in Prydz Bay. <i>Nature Communications</i> , 2016, 7, 12577.	12.8	124
9	Marine Mammals Exploring the Oceans Pole to Pole: A Review of the MEOP Consortium. <i>Oceanography</i> , 2017, 30, 132-138.	1.0	123
10	Successful foraging zones of southern elephant seals from the Kerguelen Islands in relation to oceanographic conditions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 2169-2181.	4.0	118
11	A Southern Indian Ocean database of hydrographic profiles obtained with instrumented elephant seals. <i>Scientific Data</i> , 2014, 1, 140028.	5.3	110
12	Estimates of the Southern Ocean general circulation improved by animal-borne instruments. <i>Geophysical Research Letters</i> , 2013, 40, 6176-6180.	4.0	108
13	Accurate polynomial expressions for the density and specific volume of seawater using the TEOS-10 standard. <i>Ocean Modelling</i> , 2015, 90, 29-43.	2.4	98
14	Observations of the Fawn Trough Current over the Kerguelen Plateau from instrumented elephant seals. <i>Journal of Marine Systems</i> , 2009, 78, 377-393.	2.1	87
15	Delayed-Mode Calibration of Hydrographic Data Obtained from Animal-Borne Satellite Relay Data Loggers. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 787-801.	1.3	83
16	The ocean mixed layer under Southern Ocean sea-ice: Seasonal cycle and forcing. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 1608-1633.	2.6	82
17	Abyssal ocean overturning shaped by seafloor distribution. <i>Nature</i> , 2017, 551, 181-186.	27.8	81
18	Toward global maps of internal tide energy sinks. <i>Ocean Modelling</i> , 2019, 137, 52-75.	2.4	77

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19	Atlantic-Pacific Asymmetry in Deep Water Formation. <i>Annual Review of Earth and Planetary Sciences</i> , 2018, 46, 327-352.	11.0	68
20	Looking at the unseen: combining animal bio-logging and stable isotopes to reveal a shift in the ecological niche of a deep diving predator. <i>Ecography</i> , 2010, 33, 709-719.	4.5	66
21	A Parameterization of Local and Remote Tidal Mixing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002065.	3.8	57
22	Direct observations of the ACC transport across the Kerguelen Plateau. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	55
23	Global Calculation of Tidal Energy Conversion into Vertical Normal Modes. <i>Journal of Physical Oceanography</i> , 2014, 44, 3225-3244.	1.7	47
24	On the Patterns of Wind-Power Input to the Ocean Circulation. <i>Journal of Physical Oceanography</i> , 2011, 41, 2328-2342.	1.7	42
25	Antarctic Bottom Water production from the Vincennes Bay Polynya, East Antarctica. <i>Geophysical Research Letters</i> , 2014, 41, 3528-3534.	4.0	41
26	Coastal polynyas: Winter oases for subadult southern elephant seals in East Antarctica. <i>Scientific Reports</i> , 2018, 8, 3183.	3.3	41
27	Winter use of sea ice and ocean water mass habitat by southern elephant seals: The length and breadth of the mystery. <i>Progress in Oceanography</i> , 2015, 137, 52-68.	3.2	40
28	Circulation and meltwater distribution in the Bellingshausen Sea: From shelf break to coast. <i>Geophysical Research Letters</i> , 2016, 43, 6402-6409.	4.0	40
29	The nonlinear equation of state of sea water and the global water mass distribution. <i>Geophysical Research Letters</i> , 2015, 42, 7714-7721.	4.0	36
30	Defining a Simplified Yet "Realistic" Equation of State for Seawater. <i>Journal of Physical Oceanography</i> , 2015, 45, 2564-2579.	1.7	33
31	Seasonal Meandering of the Polar Front Upstream of the Kerguelen Plateau. <i>Geophysical Research Letters</i> , 2018, 45, 9774-9781.	4.0	33
32	Variation in the Distribution and Properties of Circumpolar Deep Water in the Eastern Amundsen Sea, on Seasonal Timescales, Using Seal-Borne Tags. <i>Geophysical Research Letters</i> , 2018, 45, 4982-4990.	4.0	33
33	The influence of oceanographic features on the foraging behavior of the olive ridley sea turtle <i>Lepidochelys olivacea</i> along the Guiana coast. <i>Progress in Oceanography</i> , 2016, 142, 58-71.	3.2	32
34	Correction and Accuracy of High- and Low-Resolution CTD Data from Animal-Borne Instruments. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 745-760.	1.3	31
35	Animal Borne Ocean Sensors "AniBOS" An Essential Component of the Global Ocean Observing System. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	30
36	Quasi-stationary ENSO wave signals versus the Antarctic Circumpolar Wave scenario. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	28

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37	A Linear Decomposition of the Southern Ocean Thermohaline Structure. <i>Journal of Physical Oceanography</i> , 2017, 47, 29-47.	1.7	28
38	Ocean Observations Using Tagged Animals. <i>Oceanography</i> , 2017, 30, 139-139.	1.0	27
39	The Gulf Stream frontal system: A key oceanographic feature in the habitat selection of the leatherback turtle?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 123, 35-47.	1.4	23
40	Getting to the bottom of the ocean. <i>Nature Geoscience</i> , 2016, 9, 857-858.	12.9	22
41	Non-Redfieldian Dynamics Explain Seasonal pCO ₂ Drawdown in the Gulf of Bothnia. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 166-188.	2.6	21
42	A Correction for the Thermal Mass-Induced Errors of CTD Tags Mounted on Marine Mammals. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 1237-1252.	1.3	17
43	The Thermohaline Modes of the Global Ocean. <i>Journal of Physical Oceanography</i> , 2019, 49, 2535-2552.	1.7	15
44	Hydrographic observations by instrumented marine mammals in the Sea of Okhotsk. <i>Polar Science</i> , 2017, 13, 56-65.	1.2	14
45	Dynamical Potential Energy: A New Approach to Ocean Energetics. <i>Journal of Physical Oceanography</i> , 2013, 43, 457-476.	1.7	12
46	Hydrographic variability along the inner and mid-shelf region of the western Ross Sea obtained using instrumented seals. <i>Progress in Oceanography</i> , 2019, 174, 131-142.	3.2	12
47	Comparison of calculated energy flux of internal tides with microstructure measurements. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 23240.	1.7	11
48	On Cabbeling and Thermobaricity in the Surface Mixed Layer. <i>Journal of Physical Oceanography</i> , 2017, 47, 1775-1787.	1.7	10
49	The Role of Stokes Drift in the Dispersal of North Atlantic Surface Marine Debris. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	8
50	Seasonal Transformation and Spatial Variability of Water Masses Within MacKenzie Polynya, Prydz Bay. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, .	2.6	5
51	Effects of the Asymmetry between Surface and Interior Flow on the Dynamics of a Thermohaline Loop. <i>Journal of Physical Oceanography</i> , 2015, 45, 2544-2563.	1.7	2
52	Weddell seal behaviour during an exceptional oceanographic event in the Filchner-Ronne Ice Shelf in 2017. <i>Antarctic Science</i> , 2021, 33, 252-264.	0.9	2
53	Animal-Borne Ocean Sensors: A Decadal Vision Through New Eyes. <i>Marine Technology Society Journal</i> , 2022, 56, 36-38.	0.4	2
54	Impact of Thermohaline Variability on Sea Level Changes in the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017381.	2.6	1

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55	Stability of the thermohaline circulation examined with a one-dimensional fluid loop. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2017, 69, 1380490.	1.7	0