

Fabien Durand

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

2,874
citations

136950

32
h-index

175258

52
g-index

69
all docs

69
docs citations

69
times ranked

2761
citing authors

#	ARTICLE	IF	CITATIONS
1	Basin-wide seasonal evolution of the Indian Ocean's phytoplankton blooms. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	182
2	Satellite altimeter-derived monthly discharge of the Ganga-Brahmaputra River and its seasonal to interannual variations from 1993 to 2008. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	174
3	Ganga-Brahmaputra river discharge from Jason-2 radar altimetry: An update to the long-term satellite-derived estimates of continental freshwater forcing flux into the Bay of Bengal. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	138
4	Influence of upper-ocean stratification on tropical cyclone-induced surface cooling in the Bay of Bengal. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	126
5	A modeling study of the processes of surface salinity seasonal cycle in the Bay of Bengal. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3926-3947.	2.6	125
6	Spatiotemporal structure of the East India Coastal Current from satellite altimetry. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	112
7	Simulated Seasonal and Interannual Variability of the Mixed Layer Heat Budget in the Northern Indian Ocean*. <i>Journal of Climate</i> , 2007, 20, 3249-3268.	3.2	111
8	Impact of barrier layer on winter-spring variability of the southeastern Arabian Sea. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	97
9	The upper Bay of Bengal salinity structure in a high-resolution model. <i>Ocean Modelling</i> , 2014, 74, 36-52.	2.4	88
10	Water level changes, subsidence, and sea level rise in the Ganges-Brahmaputra-Meghna delta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1867-1876.	7.1	86
11	Impact of temperature inversions on SST evolution in the South-Eastern Arabian Sea during the pre-summer monsoon season. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	75
12	Salinity Measurements Collected by Fishermen Reveal a "River in the Sea" Flowing Along the Eastern Coast of India. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1897-1908.	3.3	71
13	From the western boundary currents to the Pacific Equatorial Undercurrent: Modeled pathways and water mass evolutions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	70
14	Modeling the Barrier-Layer Formation in the Southeastern Arabian Sea*. <i>Journal of Climate</i> , 2007, 20, 2109-2120.	3.2	66
15	Intraseasonal response of the northern Indian Ocean coastal waveguide to the Madden-Julian Oscillation. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	65
16	Impact of Ganges-Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992-1999 period. <i>Journal of Earth System Science</i> , 2011, 120, 859-872.	1.3	61
17	Preliminary Assessment of SARAL/AltiKa Observations over the Ganges-Brahmaputra and Irrawaddy Rivers. <i>Marine Geodesy</i> , 2015, 38, 568-580.	2.0	58
18	Observational evidence for westward propagation of temperature inversions in the southeastern Arabian Sea. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	57

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19	Amazon Hydrology From Space: Scientific Advances and Future Challenges. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000728.	23.0	53
20	Seasonal mixed-layer salinity balance in the tropical Atlantic Ocean: Mean state and seasonal cycle. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 332-345.	2.6	52
21	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	51
22	Origins of wind-driven intraseasonal sea level variations in the North Indian Ocean coastal waveguide. <i>Geophysical Research Letters</i> , 2013, 40, 5740-5744.	4.0	46
23	Towards improved storm surge models in the northern Bay of Bengal. <i>Continental Shelf Research</i> , 2017, 135, 58-73.	1.8	46
24	Wetland dynamics using a suite of satellite observations: A case study of application and evaluation for the Indian Subcontinent. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	44
25	Impact of Continental Freshwater Runoff on Coastal Sea Level. <i>Surveys in Geophysics</i> , 2019, 40, 1437-1466.	4.6	43
26	SMOS reveals the signature of Indian Ocean Dipole events. <i>Ocean Dynamics</i> , 2013, 63, 1203-1212.	2.2	42
27	Westward movement of eddies into the Gulf of Aden from the Arabian Sea. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	41
28	Observed year-to-year sea surface salinity variability in the Bay of Bengal during the 2009–2014 period. <i>Ocean Dynamics</i> , 2015, 65, 173-186.	2.2	41
29	Can we improve the representation of modeled ocean mixed layer by assimilating surface-only satellite-derived data? A case study for the tropical Pacific during the 1997–1998 El Niño. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	40
30	Annual Reversal of the Equatorial Intermediate Current in the Pacific: Observations and Model Diagnostics. <i>Journal of Physical Oceanography</i> , 2010, 40, 915-933.	1.7	40
31	Estimating boundary currents from satellite altimetry: A case study for the east coast of India. <i>Journal of Oceanography</i> , 2008, 64, 831-845.	1.7	38
32	A modeling study of processes controlling the Bay of Bengal sea surface salinity interannual variability. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8471-8495.	2.6	37
33	Minima of interannual sea-level variability in the Indian Ocean. <i>Progress in Oceanography</i> , 2010, 84, 225-241.	3.2	33
34	Do the Amazon and Orinoco freshwater plumes really matter for hurricane-induced ocean surface cooling?. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2119-2141.	2.6	33
35	Improved Bathymetric Dataset and Tidal Model for the Northern Bay of Bengal. <i>Marine Geodesy</i> , 2016, 39, 422-438.	2.0	31
36	Seasonal modulation of M2 tide in the Northern Bay of Bengal. <i>Continental Shelf Research</i> , 2017, 137, 154-162.	1.8	28

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37	Recent changes in the surface salinity of the North Atlantic subpolar gyre. <i>Journal of Geophysical Research</i> , 2002, 107, SFR 11-1-SFR 11-13.	3.3	27
38	Can We Improve Parametric Cyclonic Wind Fields Using Recent Satellite Remote Sensing Data?. <i>Remote Sensing</i> , 2018, 10, 1963.	4.0	23
39	Roles of land surface albedo and horizontal resolution on the Indian summer monsoon biases in a coupled ocean-atmosphere tropical-channel model. <i>Climate Dynamics</i> , 2017, 48, 1571-1594.	3.8	22
40	Recent salinity intrusion in the Bengal delta: Observations and possible causes. <i>Continental Shelf Research</i> , 2020, 202, 104142.	1.8	22
41	Assessment of seasonal and year-to-year surface salinity signals retrieved from SMOS and Aquarius missions in the Bay of Bengal. <i>International Journal of Remote Sensing</i> , 2016, 37, 1089-1114.	2.9	21
42	Basin-wide sea level coherency in the tropical Indian Ocean driven by Madden-Julian Oscillation. <i>Nature Communications</i> , 2019, 10, 1257.	12.8	21
43	Assimilation of sea surface salinity in a tropical Oceanic General Circulation Model (OGCM): A twin experiment approach. <i>Journal of Geophysical Research</i> , 2002, 107, SRF 5-1-SRF 5-14.	3.3	19
44	Signature of Indian Ocean Dipole on the western boundary current of the Bay of Bengal. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 136, 91-106.	1.4	19
45	Projected changes of inundation of cyclonic storms in the Ganges-Brahmaputra-Meghna delta of Bangladesh due to SLR by 2100. <i>Journal of Earth System Science</i> , 2019, 128, 1.	1.3	18
46	High-Resolution Intertidal Topography from Sentinel-2 Multi-Spectral Imagery: Synergy between Remote Sensing and Numerical Modeling. <i>Remote Sensing</i> , 2019, 11, 2888.	4.0	18
47	Is there an effect of Bay of Bengal salinity on the northern Indian Ocean climatological rainfall?. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 19-33.	1.4	15
48	Sea level rise inducing tidal modulation along the coasts of Bengal delta. <i>Continental Shelf Research</i> , 2020, 211, 104289.	1.8	14
49	Towards an efficient storm surge and inundation forecasting system over the Bengal delta: chasing the Supercyclone Amphan. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2523-2541.	3.6	14
50	Role of the Tide on the Structure of the Amazon Plume: A Numerical Modeling Approach. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015495.	2.6	13
51	Comprehensive bathymetry and intertidal topography of the Amazon estuary. <i>Earth System Science Data</i> , 2021, 13, 2275-2291.	9.9	12
52	On the Variability of the Tropical Pacific Thermal Structure during the 1979-96 Period, as Deduced from XBT Sections. <i>Journal of Physical Oceanography</i> , 2000, 30, 3261-3269.	1.7	11
53	Observed intra-seasonal to interannual variability of the upper ocean thermal structure in the southeastern Arabian Sea during 2002-2008. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 739-754.	1.4	10
54	Role of fronts in the formation of Arabian Sea barrier layers during summer monsoon. <i>Ocean Dynamics</i> , 2014, 64, 809-822.	2.2	10

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55	Madden-Julian oscillation winds excite an intraseasonal see-saw of ocean mass that affects Earth's polar motion. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	10
56	Influence of ocean salinity stratification on the tropical Atlantic Ocean surface. <i>Climate Dynamics</i> , 2021, 57, 321-340.	3.8	9
57	A quantitative method for describing the seasonal cycles of surface chlorophyll in the Indian Ocean. , 2006, , .		8
58	Processes of India's offshore summer intraseasonal sea surface temperature variability. <i>Ocean Dynamics</i> , 2013, 63, 329-346.	2.2	8
59	Topography of the intertidal zone along the shoreline of Chittagong (Bangladesh) using PROBA-V imagery. <i>International Journal of Remote Sensing</i> , 2018, 39, 9004-9024.	2.9	8
60	The East Caledonian Current: A Case Example for the Intercomparison between AltiKa and In Situ Measurements in a Boundary Current. <i>Marine Geodesy</i> , 2017, 40, 1-22.	2.0	6
61	A Statistical Method for Correcting Salinity Observations from Autonomous Profiling Floats: An ARGO Perspective. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 292-301.	1.3	5
62	Increased population exposure to Amphan-scale cyclones under future climates. <i>Climate Resilience and Sustainability</i> , 2022, 1, .	2.3	3
63	The Global Patterns of Interannual and Intraseasonal Mass Variations in the Oceans from GRACE and GRACE Follow-On Records. <i>Remote Sensing</i> , 2022, 14, 1861.	4.0	2
64	Investigating the robustness of the intraseasonal see-saw in the Indo-Pacific barotropic sea level across models. <i>Ocean Dynamics</i> , 2022, 72, 523-538.	2.2	2
65	Role of the amazon outflow on the barotropic tide on the amazonian shelf. <i>Continental Shelf Research</i> , 2022, 238, 104695.	1.8	1
66	Improved satellite altimetry for the observation of coastal ocean dynamics: a case study for the northern Indian Ocean. , 2006, 6406, 160.		0