

Julien Brajard

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

676
citations

758635

12
h-index

713013

21
g-index

43
all docs

43
docs citations

43
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining data assimilation and machine learning to emulate a dynamical model from sparse and noisy observations: A case study with the Lorenz 96 model. <i>Journal of Computational Science</i> , 2020, 44, 101171.	1.5	119
2	Classification of Sea Ice Types in Sentinel-1 SAR Data Using Convolutional Neural Networks. <i>Remote Sensing</i> , 2020, 12, 2165.	1.8	74
3	Bayesian inference of chaotic dynamics by merging data assimilation, machine learning and expectation-maximization. , 2020, 2, 55-80.		65
4	Combining data assimilation and machine learning to infer unresolved scale parametrization. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200086.	1.6	63
5	Data assimilation as a learning tool to infer ordinary differential equation representations of dynamical models. <i>Nonlinear Processes in Geophysics</i> , 2019, 26, 143-162.	0.6	58
6	Use of a neuro-variational inversion for retrieving oceanic and atmospheric constituents from satellite ocean colour sensor: Application to absorbing aerosols. <i>Neural Networks</i> , 2006, 19, 178-185.	3.3	47
7	Bridging observations, theory and numerical simulation of the ocean using machine learning. <i>Environmental Research Letters</i> , 2021, 16, 073008.	2.2	40
8	Atmospheric correction of MERIS data for case-2 waters using a neuro-variational inversion. <i>Remote Sensing of Environment</i> , 2012, 126, 51-61.	4.6	39
9	Fusion of Rain Radar Images and Wind Forecasts in a Deep Learning Model Applied to Rain Nowcasting. <i>Remote Sensing</i> , 2021, 13, 246.	1.8	26
10	Silicon cycle in Indian estuaries and its control by biogeochemical and anthropogenic processes. <i>Continental Shelf Research</i> , 2017, 148, 64-88.	0.9	22
11	Atmospheric correction of SeaWiFS ocean color imagery in the presence of absorbing aerosols off the Indian coast using a neuro-variational method. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	17
12	Retrieving aerosol characteristics and sea-surface chlorophyll from satellite ocean color multi-spectral sensors using a neural-variational method. <i>Remote Sensing of Environment</i> , 2013, 130, 74-86.	4.6	17
13	Inferring the seasonal evolution of phytoplankton groups in the Senegalo-Mauritanian upwelling region from satellite ocean color spectral measurements. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6581-6601.	1.0	17
14	First Evidence of Anoxia and Nitrogen Loss in the Southern Canary Upwelling System. <i>Geophysical Research Letters</i> , 2019, 46, 2619-2627.	1.5	13
15	Inversion of satellite ocean colour imagery and geoacoustic characterization of seabed properties: Variational data inversion using a semi-automatic adjoint approach. <i>Journal of Marine Systems</i> , 2008, 69, 126-136.	0.9	12
16	Validation of a neuro-variational inversion of ocean colour images. <i>Advances in Space Research</i> , 2006, 38, 2169-2175.	1.2	8
17	Blending drifters and altimetric data to estimate surface currents: Application in the Levantine Mediterranean and objective validation with different data types. <i>Ocean Modelling</i> , 2021, 166, 101850.	1.0	7
18	Estimating aerosol parameters above the ocean from MERIS observations using topological maps. <i>International Journal of Remote Sensing</i> , 2007, 28, 781-795.	1.3	5

#	ARTICLE	IF	CITATIONS
19	Modelling surface currents in the Eastern Levantine Mediterranean using surface drifters and satellite altimetry. <i>Ocean Modelling</i> , 2016, 104, 1-14.	1.0	3
20	Variational assimilation of land surface temperature within the ORCHIDEE Land Surface Model Version 1.2.6. <i>Geoscientific Model Development</i> , 2017, 10, 85-104.	1.3	3
21	Estimation of phytoplankton pigments from ocean-color satellite observations in the Senegalo-Mauritanian region by using an advanced neural classifier. <i>Ocean Science</i> , 2020, 16, 513-533.	1.3	3
22	Estimation of Round-off Errors in OpenMP Codes. <i>Lecture Notes in Computer Science</i> , 2016, , 3-16.	1.0	2
23	Validation of model simulations with respect to in situ observations by the use of probabilistic estimations. , 2008, , .		1
24	Improving CADNA Performance on GPUs. , 2018, , .		1
25	Spatial Distribution of Aerosol Optical Thickness Retrieved from SeaWiFS Images by a Neural Network Inversion over the West African Coast. , 2016, , .		0