

Christopher Irrgang

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

272
citations

1039406

9
h-index

940134

16
g-index

30
all docs

30
docs citations

30
times ranked

213
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards neural Earth system modelling by integrating artificial intelligence in Earth system science. <i>Nature Machine Intelligence</i> , 2021, 3, 667-674.	8.3	98
2	Tide-induced magnetic signals and their errors derived from CHAMP and Swarm satellite magnetometer observations. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	4
3	Improving Atmospheric Angular Momentum Forecasts by Machine Learning. <i>Earth and Space Science</i> , 2021, 8, .	1.1	6
4	Self-Validating Deep Learning for Recovering Terrestrial Water Storage From Gravity and Altimetry Measurements. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089258.	1.5	9
5	Machine Learning-Based Prediction of Spatiotemporal Uncertainties in Global Wind Velocity Reanalyses. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001876.	1.3	9
6	Phase Changes of Electromagnetic Oceanic Tidal Signals. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015960.	1.0	3
7	Analysis of Ocean Tide-Induced Magnetic Fields Derived From Oceanic In Situ Observations: Climate Trends and the Remarkable Sensitivity of Shelf Regions. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8257-8270.	1.0	5
8	Modelling of electromagnetic signatures of global ocean circulation: physical approximations and numerical issues. <i>Earth, Planets and Space</i> , 2019, 71, .	0.9	10
9	Estimating global ocean heat content from tidal magnetic satellite observations. <i>Scientific Reports</i> , 2019, 9, 7893.	1.6	13
10	Estimating ocean tide model uncertainties for electromagnetic inversion studies. <i>Annales Geophysicae</i> , 2018, 36, 1009-1014.	0.6	7
11	Electromagnetic characteristics of ENSO. <i>Ocean Science</i> , 2018, 14, 515-524.	1.3	5
12	Depth of origin of ocean-circulation-induced magnetic signals. <i>Annales Geophysicae</i> , 2018, 36, 167-180.	0.6	7
13	On the Use of Satellite Altimetry to Detect Ocean Circulation's Magnetic Signals. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2305-2314.	1.0	3
14	Utilizing oceanic electromagnetic induction to constrain an ocean general circulation model: A data assimilation twin experiment. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1703-1720.	1.3	18
15	Impact of oceanic warming on electromagnetic oceanic tidal signals: A CMIP5 climate model-based sensitivity study. <i>Geophysical Research Letters</i> , 2017, 44, 4994-5000.	1.5	21
16	Impact of variable seawater conductivity on motional induction simulated with an ocean general circulation model. <i>Ocean Science</i> , 2016, 12, 129-136.	1.3	21
17	Ensemble simulations of the magnetic field induced by global ocean circulation: Estimating the uncertainty. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 1866-1880.	1.0	12
18	Impact of climate variability on the tidal oceanic magnetic signal—A model-based sensitivity study. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5931-5941.	1.0	19