Christopher Irrgang

List of Publications by Year
in descending order

18	272	1039880 9	940416 16
papers	citations	h-index	g-index

30	30	30	213
all docs	docs citations	times ranked	citing authors

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