Jan Saynisch

List of Publications by Year
in descending order

29 papers	474 citations	840585 11 h-index	713332 21 g-index
47 all docs	47 docs citations	47 times ranked	474 citing authors

#	Article	IF	Citations
1	An approach for constraining mantle viscosities through assimilation of palaeo sea level data into a glacial isostatic adjustment model. Nonlinear Processes in Geophysics, 2022, 29, 53-75.	0.6	0
2	On the characterization of tidal ocean-dynamo signals in coastal magnetic observatories. Earth, Planets and Space, 2022, 74, .	0.9	3
3	Towards neural Earth system modelling by integrating artificial intelligence in Earth system science. Nature Machine Intelligence, 2021, 3, 667-674.	8.3	98
4	Tide-induced magnetic signals and their errors derived from CHAMP and Swarm satellite magnetometer observations. Earth, Planets and Space, 2021, 73, .	0.9	4
5	Improving Atmospheric Angular Momentum Forecasts by Machine Learning. Earth and Space Science, 2021, 8, .	1.1	6
6	Selfâ€Validating Deep Learning for Recovering Terrestrial Water Storage From Gravity and Altimetry Measurements. Geophysical Research Letters, 2020, 47, e2020GL089258.	1.5	9
7	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
8	Phase Changes of Electromagnetic Oceanic Tidal Signals. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015960.	1.0	3
9	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
10	Modelling of electromagnetic signatures of global ocean circulation: physical approximations and numerical issues. Earth, Planets and Space, 2019, 71, .	0.9	10
11	Estimating global ocean heat content from tidal magnetic satellite observations. Scientific Reports, 2019, 9, 7893.	1.6	13
12	Estimating ocean tide model uncertainties for electromagnetic inversion studies. Annales Geophysicae, 2018, 36, 1009-1014.	0.6	7
13	Electromagnetic characteristics of ENSO. Ocean Science, 2018, 14, 515-524.	1.3	5
14	Depth of origin of ocean-circulation-induced magnetic signals. Annales Geophysicae, 2018, 36, 167-180.	0.6	7
15	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
16	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
17	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
18	Challenges in grazing altimetry using reflected GNSS signals. , 2017, , .		0

#	Article	IF	Citations
19	Impact of variable seawater conductivity on motional induction simulated with an ocean general circulation model. Ocean Science, 2016, 12, 129-136.	1.3	21
20	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
21	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
22	A Phase-Altimetric Simulator: Studying the Sensitivity of Earth-Reflected GNSS Signals to Ocean Topography. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6791-6802.	2.7	44
23	GEROS-ISS: GNSS REflectometry, Radio Occultation, and Scatterometry Onboard the International Space Station. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4552-4581.	2.3	99
24	Assimilation of GRACE-derived oceanic mass distributions with a global ocean circulation model. Journal of Geodesy, 2015, 89, 121-139.	1.6	11
25	Potential of space-borne GNSS reflectometry to constrain simulations of the ocean circulation. Ocean Dynamics, 2015, 65, 1441-1460.	0.9	15
26	Ensemble Kalman-Filtering of Earth rotation observations with a global ocean model. Journal of Geodynamics, 2012, 62, 24-29.	0.7	7
27	Assimilation of Earth rotation parameters into a global ocean model: excitation of polar motion. Nonlinear Processes in Geophysics, 2011, 18, 581-585.	0.6	8
28	Assimilation of Earth rotation parameters into a global ocean model: length of day excitation. Journal of Geodesy, 2011, 85, 67-73.	1.6	7
29	A conceptual ENSO model under realistic noise forcing. Nonlinear Processes in Geophysics, 2006, 13, 275-285.	0.6	8