Jan Saynisch

List of Publications by Year
in descending order

29	474	840585 11	713332 21
papers	citations	h-index	g-index

47	47	47	474
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Towards neural Earth system modelling by integrating artificial intelligence in Earth system science. Nature Machine Intelligence, 2021, 3, 667-674.	8.3	98
3	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
4	Impact of variable seawater conductivity on motional induction simulated with an ocean general circulation model. Ocean Science, 2016, 12, 129-136.	1.3	21
5	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
6	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
7	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
8	Potential of space-borne GNSS reflectometry to constrain simulations of the ocean circulation. Ocean Dynamics, 2015, 65, 1441-1460.	0.9	15
9	Estimating global ocean heat content from tidal magnetic satellite observations. Scientific Reports, 2019, 9, 7893.	1.6	13
10	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
11	Assimilation of GRACE-derived oceanic mass distributions with a global ocean circulation model. Journal of Geodesy, 2015, 89, 121-139.	1.6	11
12	Modelling of electromagnetic signatures of global ocean circulation: physical approximations and numerical issues. Earth, Planets and Space, 2019, 71, .	0.9	10
13	Selfâ€Validating Deep Learning for Recovering Terrestrial Water Storage From Gravity and Altimetry Measurements. Geophysical Research Letters, 2020, 47, e2020GL089258.	1.5	9
14	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
15	A conceptual ENSO model under realistic noise forcing. Nonlinear Processes in Geophysics, 2006, 13, 275-285.	0.6	8
16	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
17	Assimilation of Earth rotation parameters into a global ocean model: length of day excitation. Journal of Geodesy, 2011, 85, 67-73.	1.6	7
18	Ensemble Kalman-Filtering of Earth rotation observations with a global ocean model. Journal of Geodynamics, 2012, 62, 24-29.	0.7	7

#	Article	IF	Citations
19	Estimating ocean tide model uncertainties for electromagnetic inversion studies. Annales Geophysicae, 2018, 36, 1009-1014.	0.6	7
20	Depth of origin of ocean-circulation-induced magnetic signals. Annales Geophysicae, 2018, 36, 167-180.	0.6	7
21	Improving Atmospheric Angular Momentum Forecasts by Machine Learning. Earth and Space Science, 2021, 8, .	1.1	6
22	Electromagnetic characteristics of ENSO. Ocean Science, 2018, 14, 515-524.	1.3	5
23	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
24	Tide-induced magnetic signals and their errors derived from CHAMP and Swarm satellite magnetometer observations. Earth, Planets and Space, 2021, 73, .	0.9	4
25	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
26	Phase Changes of Electromagnetic Oceanic Tidal Signals. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015960.	1.0	3
27	On the characterization of tidal ocean-dynamo signals in coastal magnetic observatories. Earth, Planets and Space, 2022, 74, .	0.9	3
28	Challenges in grazing altimetry using reflected GNSS signals. , 2017, , .		0
29	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