Igor Shevchenko

List of Publications by Year
in descending order

16	256	1040056 9	1058476 14
papers	citations	h-index	g-index

16	16	16	138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerically Modeling Stochastic Lie Transport in Fluid Dynamics. Multiscale Modeling and Simulation, 2019, 17, 192-232.	1.6	65
2	Multi-layer quasi-geostrophic ocean dynamics in Eddy-resolving regimes. Ocean Modelling, 2015, 94, 1-14.	2.4	35
3	Modelling uncertainty using stochastic transport noise in a 2-layer quasi-geostrophic model. , 2020, 2, 173-205.		26
4	Absorbing boundary conditions for nonlinear acoustics: The Westervelt equation. Journal of Computational Physics, 2015, 302, 200-221.	3.8	22
5	Data Assimilation for a Quasi-Geostrophic Model with Circulation-Preserving Stochastic Transport Noise. Journal of Statistical Physics, 2020, 179, 1186-1221.	1.2	22
6	A Particle Filter for Stochastic Advection by Lie Transport: A Case Study for the Damped and Forced Incompressible Two-Dimensional Euler Equation. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 1446-1492.	2.0	20
7	On dynamically unresolved oceanic mesoscale motions. Journal of Fluid Mechanics, 2021, 920, .	3.4	11
8	On non-uniqueness of the mesoscale eddy diffusivity. Journal of Fluid Mechanics, 2021, 920, .	3.4	11
9	Eddy Backscatter and Counter-Rotating Gyre Anomalies of Midlatitude Ocean Dynamics. Fluids, 2016, 1, 28.	1.7	10
10	On the roles of baroclinic modes in eddy-resolving midlatitude ocean dynamics. Ocean Modelling, 2017, 111, 55-65.	2.4	10
11	Self-adapting absorbing boundary conditions for the wave equation. Wave Motion, 2012, 49, 461-473.	2.0	7
12	A method for preserving large-scale flow patterns in low-resolution ocean simulations. Ocean Modelling, 2021, 161, 101795.	2.4	7
13	On a minimum set of equations for parameterisations in comprehensive ocean circulation models. Ocean Modelling, 2021, 168, 101913.	2.4	5
14	Well-posedness of the Westervelt equation with higher order absorbing boundary conditions. Journal of Mathematical Analysis and Applications, 2019, 479, 1595-1617.	1.0	3
15	A method for preserving nominally-resolved flow patterns in low-resolution ocean simulations: Dynamical system reconstruction. Ocean Modelling, 2022, 170, 101939.	2.4	2
16	Western boundary layer nonlinear control of the oceanic gyres. Journal of Fluid Mechanics, 2021, 918, .	3.4	0