

Vladimir M Gryanik

List of Publications by Year in descending order

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16
papers

452
citations

840776

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940533

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all docs

16
docs citations

16
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
1	A parametrization, based on sea ice morphology, of the neutral atmospheric drag coefficients for weather prediction and climate models. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	99
2	A Turbulence Closure for the Convective Boundary Layer Based on a Two-Scale Mass-Flux Approach. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 2729-2744.	1.7	73
3	A stability-dependent parametrization of transfer coefficients for momentum and heat over polar sea ice to be used in climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 552-581.	3.3	46
4	A Refinement of the Millionshchikov Quasi-Normality Hypothesis for Convective Boundary Layer Turbulence. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 2632-2638.	1.7	37
5	Idealized dry quasi 2D mesoscale simulations of cold-air outbreaks over the marginal sea ice zone with fine and coarse resolution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8787-8813.	3.3	36
6	The theory of three-dimensional hetons and vortex-dominated spreading in localized turbulent convection in a fast rotating stratified fluid. <i>Journal of Fluid Mechanics</i> , 2000, 423, 71-125.	3.4	28
7	Vortex intensification and collapse of the Lissajous-elliptic ring: single- and multi-filament Biot-Savart simulations and visimetrics. <i>Journal of Fluid Mechanics</i> , 1995, 299, 289-331.	3.4	27
8	New Modified and Extended Stability Functions for the Stable Boundary Layer based on SHEBA and Parametrizations of Bulk Transfer Coefficients for Climate Models. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 2687-2716.	1.7	23
9	The theory of quasi-geostrophic von Kármán vortex streets in two-layer fluids on a beta-plane. <i>Journal of Fluid Mechanics</i> , 2004, 505, 23-57.	3.4	22
10	Evaluation of Arctic sea ice drift and its dependency on near-surface wind and sea ice conditions in the coupled regional climate model HIRHAM-NAOSIM. <i>Cryosphere</i> , 2020, 14, 1727-1746.	3.9	18
11	An Efficient Non-iterative Bulk Parametrization of Surface Fluxes for Stable Atmospheric Conditions Over Polar Sea-Ice. <i>Boundary-Layer Meteorology</i> , 2018, 166, 301-325.	2.3	13
12	Meteorology and oceanography of the Atlantic sector of the Southern Ocean—a review of German achievements from the last decade. <i>Ocean Dynamics</i> , 2016, 66, 1379-1413.	2.2	12
13	Near-singular collapse and local intensification of a Lissajous-elliptic vortex ring: Nonmonotonic behavior and zero-approaching local energy densities. <i>Physics of Fluids</i> , 1994, 6, 2242-2244.	4.0	6
14	Sensitivity to changes in the surface-layer turbulence parameterization for stable conditions in winter: A case study with a regional climate model over the Arctic. <i>Atmospheric Science Letters</i> , 2022, 23, e1066.	1.9	6
15	Influence of Lead width on the Turbulent Flow Over Sea Ice Leads: Modeling and Parametrization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031996.	3.3	5
16	On a solution of the closure problem for dry convective boundary layer turbulence and beyond. <i>Journals of the Atmospheric Sciences</i> , 2022, , .	1.7	1