

# Dmitri Kondrashov

## List of Publications by Citations

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54  
papers

3,043  
citations

23  
h-index

55  
g-index

61  
ext. papers

3,371  
ext. citations

4.1  
avg, IF

4.95  
L-index

#	Paper	IF	Citations
54	ADVANCED SPECTRAL METHODS FOR CLIMATIC TIME SERIES. <i>Reviews of Geophysics</i> , <b>2002</b> , 40, 3-1	23.1	1401
53	Spatio-temporal filling of missing points in geophysical data sets. <i>Nonlinear Processes in Geophysics</i> , <b>2006</b> , 13, 151-159	2.9	219
52	Extreme events: dynamics, statistics and prediction. <i>Nonlinear Processes in Geophysics</i> , <b>2011</b> , 18, 295-350	2.9	147
51	Multilevel Regression Modeling of Nonlinear Processes: Derivation and Applications to Climatic Variability. <i>Journal of Climate</i> , <b>2005</b> , 18, 4404-4424	4.4	104
50	Oscillatory modes of extended Nile River records (A.D. 622-922). <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	87
49	A Hierarchy of Data-Based ENSO Models. <i>Journal of Climate</i> , <b>2005</b> , 18, 4425-4444	4.4	82
48	Data-driven non-Markovian closure models. <i>Physica D: Nonlinear Phenomena</i> , <b>2015</b> , 297, 33-55	3.3	67
47	Reanalysis of relativistic radiation belt electron fluxes using CRRES satellite data, a radial diffusion model, and a Kalman filter. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		62
46	Weather Regimes and Preferred Transition Paths in a Three-Level Quasigeostrophic Model. <i>Journals of the Atmospheric Sciences</i> , <b>2004</b> , 61, 568-587	2.1	60
45	Rough parameter dependence in climate models and the role of Ruelle-Pollicott resonances. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1684-90	11.5	54
44	Predicting stochastic systems by noise sampling, and application to the El Niño-Southern Oscillation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 11766-71	11.5	45
43	Data Assimilation for a Coupled Ocean-Atmosphere Model. Part II: Parameter Estimation. <i>Monthly Weather Review</i> , <b>2008</b> , 136, 5062-5076	2.4	45
42	A Kalman filter technique to estimate relativistic electron lifetimes in the outer radiation belt. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		43
41	Reanalyses of the radiation belt electron phase space density using nearly equatorial CRRES and polar-orbiting Akebono satellite observations. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		40
40	Gap filling of solar wind data by singular spectrum analysis. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a		38
39	Empirical Mode Reduction in a Model of Extratropical Low-Frequency Variability. <i>Journals of the Atmospheric Sciences</i> , <b>2006</b> , 63, 1859-1877	2.1	37
38	Three-dimensional deformable-grid electromagnetic particle-in-cell for parallel computers. <i>Journal of Plasma Physics</i> , <b>1999</b> , 61, 367-389	2.7	34

37	Low-order stochastic model and fast-noise forecasting of the Madden-Julian Oscillation. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 5305-5310	4.9	33
36	Stochastic modeling of decadal variability in ocean gyres. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 1543-1553	4.5	32
35	Data-adaptive harmonic spectra and multilayer Stuart-Landau models. <i>Chaos</i> , <b>2017</b> , 27, 093110	3.3	26
34	Three-dimensional data assimilation and reanalysis of radiation belt electrons: Observations of a four-zone structure using five spacecraft and the VERB code. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8764-8783	2.6	26
33	Diversity, Nonlinearity, Seasonality, and Memory Effect in ENSO Simulation and Prediction Using Empirical Model Reduction. <i>Journal of Climate</i> , <b>2016</b> , 29, 1809-1830	4.4	26
32	Predicting Critical Transitions in ENSO models. Part II: Spatially Dependent Models. <i>Journal of Climate</i> , <b>2015</b> , 28, 1962-1976	4.4	24
31	Application of a new data operator-splitting data assimilation technique to the 3-D VERB diffusion code and CRRES measurements. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 4998-5002	4.9	23
30	Reanalysis of radiation belt electron phase space density using various boundary conditions and loss models. <i>Advances in Space Research</i> , <b>2011</b> , 48, 1327-1334	2.4	22
29	Reduced models of atmospheric low-frequency variability: Parameter estimation and comparative performance. <i>Physica D: Nonlinear Phenomena</i> , <b>2010</b> , 239, 145-166	3.3	22
28	Lognormal Kalman filter for assimilating phase space density data in the radiation belts. <i>Space Weather</i> , <b>2011</b> , 9, n/a-n/a	3.7	21
27	Three-dimensional Magnetohydrodynamic Simulations of the Interaction of Magnetic Flux Tubes. <i>Astrophysical Journal</i> , <b>1999</b> , 519, 884-898	4.7	20
26	Multiscale Stuart-Landau Emulators: Application to Wind-Driven Ocean Gyres. <i>Fluids</i> , <b>2018</b> , 3, 21	1.6	19
25	Data assimilation of low-altitude magnetic perturbations into a global magnetosphere model. <i>Space Weather</i> , <b>2016</b> , 14, 165-184	3.7	17
24	Inverse stochastic dynamic models for high-resolution Greenland ice core records. <i>Earth System Dynamics</i> , <b>2017</b> , 8, 1171-1190	4.8	15
23	Reconstruction of gaps in the past history of solar wind parameters. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 2702-2707	4.9	15
22	Interannual Variability in the North Atlantic Ocean Temperature Field and Its Association with the Wind Stress Forcing. <i>Journal of Climate</i> , <b>2017</b> , 30, 2655-2678	4.4	14
21	Signatures of Nonlinear Dynamics in an Idealized Atmospheric Model. <i>Journals of the Atmospheric Sciences</i> , <b>2011</b> , 68, 3-12	2.1	13
20	A Maxwell's equation solver for 3-D MHD calculations. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 254-259	2	11

19	Predicting weather regime transitions in Northern Hemisphere datasets. <i>Climate Dynamics</i> , <b>2007</b> , 29, 535-551	4.2	11
18	On data-driven augmentation of low-resolution ocean model dynamics. <i>Ocean Modelling</i> , <b>2019</b> , 142, 101464	4.6	10
17	. <i>IEEE Transactions on Magnetics</i> , <b>1995</b> , 31, 634-639	2	9
16	On data-driven induction of the low-frequency variability in a coarse-resolution ocean model. <i>Ocean Modelling</i> , <b>2020</b> , 153, 101664	3	9
15	Data-Adaptive Harmonic Decomposition and Stochastic Modeling of Arctic Sea Ice <b>2018</b> , 179-205		8
14	Data-adaptive harmonic analysis of oceanic waves and turbulent flows. <i>Chaos</i> , <b>2020</b> , 30, 061105	3.3	7
13	An empirical stochastic model of sea-surface temperatures and surface winds over the Southern Ocean. <i>Ocean Science</i> , <b>2011</b> , 7, 755-770	4	7
12	Data-adaptive harmonic analysis and modeling of solar wind-magnetosphere coupling. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2018</b> , 177, 179-189	2	6
11	Noise statistics identification for Kalman filtering of the electron radiation belt observations I: Model errors. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5700-5724	2.6	5
10	Reply to T. Schneider's comment on "Spatio-temporal filling of missing points in geophysical data sets". <i>Nonlinear Processes in Geophysics</i> , <b>2007</b> , 14, 3-4	2.9	5
9	Data-adaptive harmonic decomposition and prediction of Arctic sea ice extent. <i>Dynamics and Statistics of the Climate System</i> , <b>2018</b> , 3,		5
8	Correlation-based flow decomposition and statistical analysis of the eddy forcing. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 924,	3.7	5
7	Extratropical Sub-seasonal to Seasonal Oscillations and Multiple Regimes: The Dynamical Systems View <b>2019</b> , 119-142		3
6	A Comparison of Data-Driven Approaches to Build Low-Dimensional Ocean Models. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2021MS002537	7.1	3
5	Inverse stochastic-dynamic models for high-resolution Greenland ice-core records <b>2017</b> ,		2
4	Noise statistics identification for Kalman filtering of the electron radiation belt observations: 2. Filtration and smoothing. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5725-5743	2.6	2
3	Comment on "Nonparametric forecasting of low-dimensional dynamical systems ". <i>Physical Review E</i> , <b>2016</b> , 93, 036201	2.4	1
2	3-D MHD simulation of a railgun hybrid armature. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 249-253	2	1

- 1 Singular Spectrum Analysis for Astronomical Time Series: Constructing a Parsimonious Hypothesis Test. *Thirty Years of Astronomical Discovery With UKIRT*, **2016**, 105-107 0.3