

Dmitri Kondrashov

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,746
citations

236925

25
h-index

189892

50
g-index

61
all docs

61
docs citations

61
times ranked

3753
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced spectral methods for climatic time series. <i>Reviews of Geophysics</i> , 2002, 40, 3-1.	23.0	1,695
2	Spatio-temporal filling of missing points in geophysical data sets. <i>Nonlinear Processes in Geophysics</i> , 2006, 13, 151-159.	1.3	277
3	Extreme events: dynamics, statistics and prediction. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 295-350.	1.3	197
4	Multilevel Regression Modeling of Nonlinear Processes: Derivation and Applications to Climatic Variability. <i>Journal of Climate</i> , 2005, 18, 4404-4424.	3.2	121
5	Oscillatory modes of extended Nile River records (A.D. 622â€“1922). <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	101
6	A Hierarchy of Data-Based ENSO Models. <i>Journal of Climate</i> , 2005, 18, 4425-4444.	3.2	100
7	Data-driven non-Markovian closure models. <i>Physica D: Nonlinear Phenomena</i> , 2015, 297, 33-55.	2.8	89
8	Three-dimensional deformable-grid electromagnetic particle-in-cell for parallel computers. <i>Journal of Plasma Physics</i> , 1999, 61, 367-389.	2.1	70
9	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> , 2007, 112, n/a-n/a.	3.3	70
10	Weather Regimes and Preferred Transition Paths in a Three-Level Quasigeostrophic Model. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 568-587.	1.7	66
11	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> , 2014, 111, 1684-1690.	7.1	63
12	A Kalman filter technique to estimate relativistic electron lifetimes in the outer radiation belt. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	55
13	Predicting stochastic systems by noise sampling, and application to the El NiÃ±o-Southern Oscillation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11766-11771.	7.1	55
14	Data Assimilation for a Coupled Oceanâ€“Atmosphere Model. Part II: Parameter Estimation. <i>Monthly Weather Review</i> , 2008, 136, 5062-5076.	1.4	49
15	Gap filling of solar wind data by singular spectrum analysis. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	47
16	Empirical Mode Reduction in a Model of Extratropical Low-Frequency Variability. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 1859-1877.	1.7	46
17	Reanalyses of the radiation belt electron phase space density using nearly equatorial CRRES and polarâ€“orbiting Akebono satellite observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	46
18	Lowâ€“order stochastic model and â€œpastâ€“noise forecastingâ€“of the Maddenâ€“Julian Oscillation. <i>Geophysical Research Letters</i> , 2013, 40, 5305-5310.	4.0	38

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19	Stochastic modeling of decadal variability in ocean gyres. <i>Geophysical Research Letters</i> , 2015, 42, 1543-1553.	4.0	37
20	Diversity, Nonlinearity, Seasonality, and Memory Effect in ENSO Simulation and Prediction Using Empirical Model Reduction. <i>Journal of Climate</i> , 2016, 29, 1809-1830.	3.2	34
21	Application of a new data operatorâ€splitting data assimilation technique to the 3â€D VERB diffusion code and CRRES measurements. <i>Geophysical Research Letters</i> , 2013, 40, 4998-5002.	4.0	32
22	Threeâ€dimensional data assimilation and reanalysis of radiation belt electrons: Observations of a fourâ€zone structure using five spacecraft and the VERB code. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8764-8783.	2.4	31
23	Data-adaptive harmonic spectra and multilayer Stuart-Landau models. <i>Chaos</i> , 2017, 27, 093110.	2.5	30
24	Predicting Critical Transitions in ENSO models. Part II: Spatially Dependent Models. <i>Journal of Climate</i> , 2015, 28, 1962-1976.	3.2	28
25	Lognormal Kalman filter for assimilating phase space density data in the radiation belts. <i>Space Weather</i> , 2011, 9, .	3.7	26
26	Threeâ€dimensional Magnetohydrodynamic Simulations of the Interaction of Magnetic Flux Tubes. <i>Astrophysical Journal</i> , 1999, 519, 884-898.	4.5	25
27	Reanalysis of radiation belt electron phase space density using various boundary conditions and loss models. <i>Advances in Space Research</i> , 2011, 48, 1327-1334.	2.6	24
28	Reduced models of atmospheric low-frequency variability: Parameter estimation and comparative performance. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 145-166.	2.8	23
29	Interannual Variability in the North Atlantic Oceanâ€™s Temperature Field and Its Association with the Wind Stress Forcing. <i>Journal of Climate</i> , 2017, 30, 2655-2678.	3.2	23
30	Multiscale Stuart-Landau Emulators: Application to Wind-Driven Ocean Gyres. <i>Fluids</i> , 2018, 3, 21.	1.7	23
31	Data assimilation of lowâ€altitude magnetic perturbations into a global magnetosphere model. <i>Space Weather</i> , 2016, 14, 165-184.	3.7	22
32	Reconstruction of gaps in the past history of solar wind parameters. <i>Geophysical Research Letters</i> , 2014, 41, 2702-2707.	4.0	21
33	Inverse stochasticâ€dynamic models for high-resolution Greenland ice core records. <i>Earth System Dynamics</i> , 2017, 8, 1171-1190.	7.1	20
34	Predicting weather regime transitions in Northern Hemisphere datasets. <i>Climate Dynamics</i> , 2007, 29, 535-551.	3.8	15
35	Signatures of Nonlinear Dynamics in an Idealized Atmospheric Model. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 3-12.	1.7	15
36	On data-driven induction of the low-frequency variability in a coarse-resolution ocean model. <i>Ocean Modelling</i> , 2020, 153, 101664.	2.4	15

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37	On data-driven augmentation of low-resolution ocean model dynamics. <i>Ocean Modelling</i> , 2019, 142, 101464.	2.4	13
38	3-D plasma armature railgun simulations. <i>IEEE Transactions on Magnetics</i> , 1995, 31, 634-639.	2.1	11
39	A Maxwell's equation solver for 3-D MHD calculations. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 254-259.	2.1	11
40	Data-Adaptive Harmonic Decomposition and Stochastic Modeling of Arctic Sea Ice. , 2018, , 179-205.		11
41	A Comparison of Data-Driven Approaches to Build Low-Dimensional Ocean Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002537.	3.8	9
42	Extratropical Sub-seasonal to Seasonal Oscillations and Multiple Regimes: The Dynamical Systems View. , 2019, , 119-142.		8
43	Data-adaptive harmonic analysis of oceanic waves and turbulent flows. <i>Chaos</i> , 2020, 30, 061105.	2.5	8
44	Correlation-based flow decomposition and statistical analysis of the eddy forcing. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	3.4	8
45	An empirical stochastic model of sea-surface temperatures and surface winds over the Southern Ocean. <i>Ocean Science</i> , 2011, 7, 755-770.	3.4	7
46	Data-adaptive harmonic analysis and modeling of solar wind-magnetosphere coupling. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 177, 179-189.	1.6	7
47	Reply to T. Schneider's comment on "Spatio-temporal filling of missing points in geophysical data sets". <i>Nonlinear Processes in Geophysics</i> , 2007, 14, 3-4.	1.3	6
48	Noise statistics identification for Kalman filtering of the electron radiation belt observations I: Model errors. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5700-5724.	2.4	6
49	Data-adaptive harmonic decomposition and prediction of Arctic sea ice extent. <i>Dynamics and Statistics of the Climate System</i> , 2018, 3, .	0.8	6
50	Noise statistics identification for Kalman filtering of the electron radiation belt observations: 2. Filtration and smoothing. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5725-5743.	2.4	2
51	3-D MHD simulation of a railgun hybrid armature. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 249-253.	2.1	1
52	Comment on "Nonparametric forecasting of low-dimensional dynamical systems". <i>Physical Review E</i> , 2016, 93, 036201.	2.1	1
53	Singular Spectrum Analysis for Astronomical Time Series: Constructing a Parsimonious Hypothesis Test. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2016, , 105-107.	0.3	0
54	10.1063/5.0012077.3. , 2020, , .		0