Valerio Lucarini

List of Publications by Citations

168 papers	3,698 citations	36 h-index	51 g-index
215 ext. papers	4,275 ext. citations	3.7 avg, IF	6.22 L-index

#	Paper	IF	Citations
168	Stochastic Parameterization: Toward a New View of Weather and Climate Models. *Bulletin of the American Meteorological Society*, **2017**, 98, 565-588	6.1	176
167	Numerical Bifurcation Methods and their Application to Fluid Dynamics: Analysis beyond Simulation. *Communications in Computational Physics*, **2014**, 15, 1-45	2.4	111
166	Seasonal cycle of precipitation over major river basins in South and Southeast Asia: A review of the CMIP5 climate models data for present climate and future climate projections. *Atmospheric Research*, **2016**, 180, 42-63	5.4	93
165	**2016**,		84
164	Stochastic climate theory and modeling. *Wiley Interdisciplinary Reviews: Climate Change*, **2015**, 6, 63-78	8.4	82
163	ENERGETICS OF CLIMATE MODELS: NET ENERGY BALANCE AND MERIDIONAL ENTHALPY TRANSPORT. *Reviews of Geophysics*, **2011**, 49,	23.1	81
162	Mathematical and physical ideas for climate science. *Reviews of Geophysics*, **2014**, 52, 809-859	23.1	80
161	Early 21st century snow cover state over the western river basins of the Indus River system. *Hydrology and Earth System Sciences*, **2014**, 18, 4077-4100	5.5	77
160	A statistical mechanical approach for the computation of the climatic response to general forcings. *Nonlinear Processes in Geophysics*, **2011**, 18, 7-28	2.9	71
159	The physics of climate variability and climate change. *Reviews of Modern Physics*, **2020**, 92,	40.5	68
158	Intercomparison of the northern hemisphere winter mid-latitude atmospheric variability of the IPCC models. *Climate Dynamics*, **2007**, 28, 829-848	4.2	66
157	Thermodynamic analysis of snowball Earth hysteresis experiment: Efficiency, entropy production and irreversibility. *Quarterly Journal of the Royal Meteorological Society*, **2010**, 136, 2-11	6.4	64
156	Prevailing climatic trends and runoff response from Hindukush–Karakoram–Himalaya, upper Indus Basin. *Earth System Dynamics*, **2017**, 8, 337-355	4.8	60
155	A new framework for climate sensitivity and prediction: a modelling perspective. *Climate Dynamics*, **2016**, 46, 1459-1471	4.2	59
154	Predicting Climate Change Using Response Theory: Global Averages and Spatial Patterns. *Journal of Statistical Physics*, **2017**, 166, 1036-1064	1.5	58
153	Hydrological cycle over South and Southeast Asian river basins as simulated by PCMDI/CMIP3 experiments. *Earth System Dynamics*, **2013**, 4, 199-217	4.8	58
152	Multi-level Dynamical Systems: Connecting the Ruelle Response Theory and the Mori-Zwanzig Approach. *Journal of Statistical Physics*, **2013**, 151, 850-860	1.5	56

151	Bistability of the climate around the habitable zone: A thermodynamic investigation. *Icarus*, **2013**, 226, 1724-1742	3.8	54
150	Analysis of rainfall seasonality from observations and climate models. *Climate Dynamics*, **2015**, 44, 3281-3301	4.2	54
149	Climate of Earth-like planets with high obliquity and eccentric orbits: Implications for habitability conditions. *Planetary and Space Science*, **2015**, 105, 43-59	2	51
148	Hayashi spectra of the northern hemisphere mid-latitude atmospheric variability in the NCEP–NCAR and ECMWF reanalyses. *Climate Dynamics*, **2005**, 25, 639-652	4.2	51
147	Thermodynamic efficiency and entropy production in the climate system. *Physical Review E*, **2009**, 80, 021118	2.4	49
146	Projected changes of rainfall seasonality and dry spells in a high greenhouse gas emissions scenario. *Climate Dynamics*, **2016**, 46, 1331-1350	4.2	48
145	Response Theory for Equilibrium and Non-Equilibrium Statistical Mechanics: Causality and Generalized Kramers-Kronig Relations. *Journal of Statistical Physics*, **2008**, 131, 543-558	1.5	48
144	Numerical Convergence of the Block-Maxima Approach to the Generalized Extreme Value Distribution. *Journal of Statistical Physics*, **2011**, 145, 1156-1180	1.5	47
143	Regional climate models' performance in representing precipitation and temperature over selected Mediterranean areas. *Hydrology and Earth System Sciences*, **2013**, 17, 5041-5059	5.5	44
142	Evidence of Dispersion Relations for the Nonlinear Response of the Lorenz 63 System. *Journal of Statistical Physics*, **2009**, 134, 381-400	1.5	42
141	Edge states in the climate system: exploring global instabilities and critical transitions. *Nonlinearity*, **2017**, 30, R32-R66	1.7	41
140	Universal Behaviour of Extreme Value Statistics for Selected Observables of Dynamical Systems. *Journal of Statistical Physics*, **2012**, 147, 63-73	1.5	40
139	Disentangling multi-level systems: averaging, correlations and memory. *Journal of Statistical Mechanics: Theory and Experiment*, **2012**, 2012, P03003	1.9	38
138	Kramers-Kronig relations and sum rules of negative refractive index media. *European Physical Journal B*, **2004**, 41, 61-65	1.2	38
137	From Symmetry Breaking to Poisson Point Process in 2D Voronoi Tessellations: the Generic Nature of Hexagons. *Journal of Statistical Physics*, **2008**, 130, 1047-1062	1.5	37
136	Transitions across Melancholia States in a Climate Model: Reconciling the Deterministic and Stochastic Points of View. *Physical Review Letters*, **2019**, 122, 158701	7.4	36
135	Lessons on Climate Sensitivity From Past Climate Changes. *Current Climate Change Reports*, **2016**, 2, 148-158	9	36
134	Statistical and dynamical properties of covariant lyapunov vectors in a coupled atmosphere-ocean model—multiscale effects, geometric degeneracy, and error dynamics. *Journal of Physics A: Mathematical and Theoretical*, **2016**, 49, 224001	2	36

133	Comparison of mean climate trends in the Northern Hemisphere between National Centers for Environmental Prediction and two atmosphere-ocean model forced runs. *Journal of Geophysical Research*, **2002**, 107, ACL 7-1		36
132	Thermodynamics of climate change: generalized sensitivities. *Atmospheric Chemistry and Physics*, **2010**, 10, 9729-9737	6.8	35
131	Fluctuations, response, and resonances in a simple atmospheric model. *Physica D: Nonlinear Phenomena*, **2017**, 349, 62-76	3.3	33
130	Extreme value theory for singular measures. *Chaos*, **2012**, 22, 023135	3.3	33
129	Earth System Model Evaluation Tool (ESMValTool) v2.0 – an extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP. *Geoscientific Model Development*, **2020**, 13, 3383-3438	6.3	32
128	Seasonality of the hydrological cycle in major South and Southeast Asian river basins as simulated by PCMDI/CMIP3 experiments. *Earth System Dynamics*, **2014**, 5, 67-87	4.8	31
127	Stochastic Perturbations to Dynamical Systems: A Response Theory Approach. *Journal of Statistical Physics*, **2012**, 146, 774-786	1.5	31
126	Habitability and Multistability in Earth-like Planets. *Astronomische Nachrichten*, **2013**, 334, 576-588	0.7	31
125	Mechanisms of femtosecond laser-induced refractive index modification of poly(methyl methacrylate). *Journal of the Optical Society of America B: Optical Physics*, **2010**, 27, 107	1.7	30
124	New Results on the Thermodynamic Properties of the Climate System. *Journals of the Atmospheric Sciences*, **2011**, 68, 2438-2458	2.1	30
123	Towards a General Theory of Extremes for Observables of Chaotic Dynamical Systems. *Journal of Statistical Physics*, **2014**, 154, 723-750	1.5	28
122	Equivalence of Non-equilibrium Ensembles and Representation of Friction in Turbulent Flows: The Lorenz 96 Model. *Journal of Statistical Physics*, **2014**, 156, 1027-1065	1.5	28
121	Detection and correction of the misplacement error in terahertz spectroscopy by application of singly subtractive Kramers-Kronig relations. *Physical Review B*, **2005**, 72,	3.3	28
120	Extreme Value Statistics of the Total Energy in an Intermediate-Complexity Model of the Midlatitude Atmospheric Jet. Part I: Stationary Case. *Journals of the Atmospheric Sciences*, **2007**, 64, 2137-2158	2.1	27
119	Total cloud cover from satellite observations and climate models. *Atmospheric Research*, **2012**, 107, 161-170	3.4	26
118	Multiply subtractive Kramers-Kronig relations for arbitrary-order harmonic generation susceptibilities. *Optics Communications*, **2003**, 218, 409-414	2	26
117	Global instability in the Ghil-Sellers model. *Climate Dynamics*, **2015**, 44, 3361-3381	4.2	25
116	Three-Dimensional Random Voronoi Tessellations: From Cubic Crystal Lattices to Poisson Point Processes. *Journal of Statistical Physics*, **2009**, 134, 185-206	1.5	25

115	Parametric smoothness and self-scaling of the statistical properties of a minimal climate model: What beyond the mean field theories?. *Physica D: Nonlinear Phenomena*, **2007**, 234, 105-123	3.3	25
114	Hydrological cycle in the Danube basin in present-day and XXII century simulations by IPCCAR4 global climate models. *Journal of Geophysical Research*, **2008**, 113,		24
113	Does the Danube exist? Versions of reality given by various regional climate models and climatological data sets. *Journal of Geophysical Research*, **2007**, 112,		24
112	A proof of concept for scale-adaptive parametrizations: the case of the Lorenz '96 model. *Quarterly Journal of the Royal Meteorological Society*, **2018**, 144, 63-75	6.4	24
111	Crisis of the chaotic attractor of a climate model: a transfer operator approach. *Nonlinearity*, **2018**, 31, 2221-2251	1.7	23
110	Extreme value statistics for dynamical systems with noise. *Nonlinearity*, **2013**, 26, 2597-2622	1.7	23
109	Extreme Value Statistics of the Total Energy in an Intermediate-Complexity Model of the Midlatitude Atmospheric Jet. Part II: Trend Detection and Assessment. *Journals of the Atmospheric Sciences*, **2007**, 64, 2159-2175	2.1	22
108	Does the subtropical jet catalyze the midlatitude atmospheric regimes?. *Geophysical Research Letters*, **2006**, 33,	4.9	22
107	Response Operators for Markov Processes in a Finite State Space: Radius of Convergence and Link to the Response Theory for Axiom A Systems. *Journal of Statistical Physics*, **2016**, 162, 312-333	1.5	21
106	Beyond the linear fluctuation-dissipation theorem: the role of causality. *Journal of Statistical Mechanics: Theory and Experiment*, **2012**, 2012, P05013	1.9	21
105	Southern Hemisphere midlatitude atmospheric variability of the NCEP-NCAR and ECMWF reanalyses. *Journal of Geophysical Research*, **2007**, 112,		20
104	Revising and Extending the Linear Response Theory for Statistical Mechanical Systems: Evaluating Observables as Predictors and Predictands. *Journal of Statistical Physics*, **2018**, 173, 1698-1721	1.5	20
103	Prevailing climatic trends and runoff response from Hindukush–Karakoram–Himalaya, upper Indus basin **2015**,		19
102	Covariant Lyapunov vectors of a quasi-geostrophic baroclinic model: analysis of instabilities and feedbacks. *Quarterly Journal of the Royal Meteorological Society*, **2015**, 141, 3040-3055	6.4	19
101	A new mathematical framework for atmospheric blocking events. *Climate Dynamics*, **2020**, 54, 575-598	4.2	19
100	On using extreme values to detect global stability thresholds in multi-stable systems: The case of transitional plane Couette flow. *Chaos, Solitons and Fractals*, **2014**, 64, 26-35	9.3	18
99	Bistable systems with stochastic noise: virtues and limits of effective one-dimensional Langevin equations. *Nonlinear Processes in Geophysics*, **2012**, 19, 9-22	2.9	18
98	Nambu representation of an extended Lorenz model with viscous heating. *Physica D: Nonlinear Phenomena*, **2013**, 243, 86-91	3.3	18

97	Multiply subtractive generalized Kramers-Kronig relations: Application on third-harmonic generation susceptibility on polysilane. *Journal of Chemical Physics*, **2003**, 119, 11095-11098	3.9	18
96	Towards a definition of climate science. *International Journal of Environment and Pollution*, **2002**, 18, 413	0.7	18
95	Dynamical analysis of blocking events: spatial and temporal fluctuations of covariant Lyapunov vectors. *Quarterly Journal of the Royal Meteorological Society*, **2016**, 142, 2143-2158	6.4	18
94	Exploring the Lyapunov instability properties of high-dimensional atmospheric and climate models. *Nonlinear Processes in Geophysics*, **2018**, 25, 387-412	2.9	18
93	Symmetry breaking, mixing, instability, and low-frequency variability in a minimal Lorenz-like system. *Physical Review E*, **2009**, 80, 026313	2.4	17
92	Linear and fractional response for the SRB measure of smooth hyperbolic attractors and discontinuous observables. *Nonlinearity*, **2017**, 30, 1204-1220	1.7	16
91	Beyond Forcing Scenarios: Predicting Climate Change through Response Operators in a Coupled General Circulation Model. *Scientific Reports*, **2020**, 10, 8668	4.9	16
90	Can we use linear response theory to assess geoengineering strategies?. *Chaos*, **2020**, 30, 023124	3.3	15
89	Elements of a unified framework for response formulae. *Journal of Statistical Mechanics: Theory and Experiment*, **2014**, 2014, P01002	1.9	15
88	GENERALIZED EXTREME VALUE DISTRIBUTION PARAMETERS AS DYNAMICAL INDICATORS OF STABILITY. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250276	2	15
87	The Forced Response of the El Niño–Southern Oscillation–Indian Monsoon Teleconnection in Ensembles of Earth System Models. *Journal of Climate*, **2020**, 33, 2163-2182	4.4	15
86	Vertical and horizontal processes in the global atmosphere and the maximum entropy production conjecture. *Earth System Dynamics*, **2012**, 3, 19-32	4.8	14
85	General properties of optical harmonic generation from a simple oscillator model. *Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics*, **1998**, 20, 1117-1125		14
84	Kramers-Kronig relations and sum rules in nonlinear optical spectroscopy. *Applied Spectroscopy*, **2004**, 58, 499-509	3.1	14
83	Stochastic resonance for nonequilibrium systems. *Physical Review E*, **2019**, 100, 062124	2.4	14
82	Entropy production and coarse graining of the climate fields in a general circulation model. *Climate Dynamics*, **2014**, 43, 981-1000	4.2	13
81	Symmetry-Break in Voronoi Tessellations. *Symmetry*, **2009**, 1, 21-54	2.7	13
80	Verification of generalized Kramers-Kronig relations and sum rules on experimental data of third harmonic generation susceptibility on polymer. *Journal of Chemical Physics*, **2003**, 119, 620-627	3.9	13

79	Thermohaline Circulation Stability: A Box Model Study. Part I: Uncoupled Model. *Journal of Climate*, **2005**, 18, 501-513	4.4	13
78	Asymptotic behaviour and general properties of harmonic generation susceptibilities. *European Physical Journal B*, **2000**, 17, 567-573	1.2	13
77	Parameterization of stochastic multiscale triads. *Nonlinear Processes in Geophysics*, **2016**, 23, 435-445	2.9	13
76	Resonances in a Chaotic Attractor Crisis of the Lorenz Flow. *Journal of Statistical Physics*, **2018**, 170, 584-616	1.3	12
75	Return levels of temperature extremes in southern Pakistan. *Earth System Dynamics*, **2017**, 8, 1263-1278	4.8	12
74	Thermohaline Circulation Stability: A Box Model Study. Part II: Coupled Atmosphere□Ocean Model. *Journal of Climate*, **2005**, 18, 514-529	4.4	12
73	Destabilization of the thermohaline circulation by transient changes in the hydrological cycle. *Climate Dynamics*, **2005**, 24, 253-262	4.2	12
72	TheDiaTo (v1.0) □a new diagnostic tool for water, energy and entropy budgets in climate models. *Geoscientific Model Development*, **2019**, 12, 3805-3834	6.3	11
71	Testing the validity of terahertz reflection spectra by dispersion relations. *Physical Review B*, **2005**, 72,	3.3	11
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68	The impact of oceanic heat transport on the atmospheric circulation. *Earth System Dynamics*, **2015**, 6, 591-615	4.8	10
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66	Climate sensitivity to ozone and its relevance on the habitability of Earth-like planets. *Icarus*, **2019**, 321, 608-618	3.8	10
65	A large deviation theory-based analysis of heat waves and cold spells in a simplified model of the general circulation of the atmosphere. *Journal of Statistical Mechanics: Theory and Experiment*, **2019** , 2019, 033404	1.9	9
64	Convergence of Extreme Value Statistics in a Two-Layer Quasi-Geostrophic Atmospheric Model. *Complexity*, **2017**, 2017, 1-20	1.6	9
63	Response formulae forn-point correlations in statistical mechanical systems and application to a problem of coarse graining. *Journal of Physics A: Mathematical and Theoretical*, **2017**, 50, 355003	2	9
62	Global stability properties of the climate: Melancholia states, invariant measures, and phase transitions. *Nonlinearity*, **2020**, 33, R59-R92	1.7	9

61	Advancing Research for Seamless Earth System Prediction. *Bulletin of the American Meteorological Society*, **2020**, 101, E23-E35	6.1	9
60	Baroclinic Stationary Waves in Aquaplanet Models. *Journals of the Atmospheric Sciences*, **2011**, 68, 1023-1040	2.4	8
59	Equivalence of nonequilibrium ensembles in turbulence models. *Physical Review E*, **2018**, 98, 012202	2.4	8
58	Lyapunov analysis of multiscale dynamics: the slow bundle of the two-scale Lorenz 96 model. *Nonlinear Processes in Geophysics*, **2019**, 26, 73-89	2.9	7
57	Experimental mathematics: Dependence of the stability properties of a two-dimensional model of the Atlantic ocean circulation on the boundary conditions. *Russian Journal of Mathematical Physics*, **2007**, 14, 224-231	1.4	7
56	Early 21st century climatology of snow cover for the western river basins of the Indus River System		7
55	Evaluating the Performance of Climate Models Based on Wasserstein Distance. *Geophysical Research Letters*, **2020**, 47, e2020GL089385	4.9	7
54	Interrupting vaccination policies can greatly spread SARS-CoV-2 and enhance mortality from COVID-19 disease: The AstraZeneca case for France and Italy. *Chaos*, **2021**, 31, 041105	3.3	7
53	Reduced-order models for coupled dynamical systems: Data-driven methods and the Koopman operator. *Chaos*, **2021**, 31, 053116	3.3	7
52	Avalanches, breathers, and flow reversal in a continuous Lorenz-96 model. *Physical Review E*, **2013**, 88, 013201	2.4	6
51	Modeling Complexity: The Case of Climate Science		6
50	Evaluating a stochastic parametrization for a fast–slow system using the Wasserstein distance. *Nonlinear Processes in Geophysics*, **2018**, 25, 413-427	2.9	6
49	Climate Sensitivity to Carbon Dioxide and the Moist Greenhouse Threshold of Earth-like Planets under an Increasing Solar Forcing. *Astrophysical Journal*, **2018**, 869, 129	4.7	6
48	Spectral Decomposition and Extremes of Atmospheric Meridional Energy Transport in the Northern Hemisphere Midlatitudes. *Geophysical Research Letters*, **2019**, 46, 7602-7613	4.9	5
47	Thermodynamics of climate change: generalized sensitivities		5
46	Hydrological cycle over south and southeast Asian river basins as simulated by PCMDI/CMIP3 experiments		5
45	Dynamical landscape and multistability of a climate model.. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2021**, 477, 20210019	2.4	5
44	Response and Sensitivity Using Markov Chains. *Journal of Statistical Physics*, **2020**, 179, 1572-1593	1.5	4

43	Effects of stochastic parametrization on extreme value statistics. *Chaos*, **2019**, 29, 083102	3.3	4
42	Water Pathways for the Hindu-Kush-Himalaya and an Analysis of Three Flood Events. *Atmosphere*, **2019**, 10, 489	2.7	4
41	Rough basin boundaries in high dimension: Can we classify them experimentally?. *Chaos*, **2020**, 30, 103105	3.3	4
40	Mechanics and thermodynamics of a new minimal model of the atmosphere. *European Physical Journal Plus*, **2020**, 135, 1	3.1	4
39	ESMValTool v2.0 – Extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP **2019**,		4
38	Fingerprinting Heatwaves and Cold Spells and Assessing Their Response to Climate Change Using Large Deviation Theory. *Physical Review Letters*, **2021**, 127, 058701	7.4	4
37	Spatial-dispersion and relativistic effects in the optical sum rules. *European Physical Journal B*, **2001**, 23, 319-323	1.2	3
36	Total cloud cover from satellite observations and climate models		3
35	TheDiaTo (v1.0) – A new diagnostic tool for water, energy and entropy budgets in climate models **2019**,		2
34	Lévy-noise versus Gaussian-noise-induced Transitions in the Ghil-Sellers Energy Balance Model		2
33	Response theory and phase transitions for the thermodynamic limit of interacting identical systems. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2020**, 476, 20200688	2.4	2
32	Analysis of a bistable climate toy model with physics-based machine learning methods. *European Physical Journal: Special Topics*,1	2.3	2
31	Applications of large deviation theory in geophysical fluid dynamics and climate science. *Rivista Del Nuovo Cimento*, **2021**, 44, 291-363	3.5	2
30	Extreme Value Theory for Selected Dynamical Systems **2016**, 97-144		2
29	Self-Scaling of the Statistical Properties of a Minimal Model of the Atmospheric Circulation **2007**, 197-219		2
28	Decomposing the dynamics of the Lorenz 1963 model using unstable periodic orbits: Averages, transitions, and quasi-invariant sets.. *Chaos*, **2022**, 32, 033129	3.3	2
27	Introduction to the Special Issue on the Statistical Mechanics of Climate. *Journal of Statistical Physics*, **2020**, 179, 997-1009	1.5	1
26	Return Levels of Temperature Extremes in Southern Pakistan **2017**,		1

25	Corridengum: Linear and fractional response for the SRB measure of smooth hyperbolic attractors and discontinuous observables (2017Nonlinearity301204). *Nonlinearity*, **2017**, 30, C4-C6	1.7	1
24	Parametrization of Cross-scale Interaction in Multiscale Systems. *World Scientific Series on Asia-Pacific Weather and Climate*, **2015**, 67-80		1
23	Seasonality of the hydrological cycle in major South and Southeast Asian River Basins as simulated by PCMDI/CMIP3 experiments **2013**,		1
22	Relevance of sampling schemes in light of Ruelle's linear response theory. *Nonlinearity*, **2012**, 25, 1311-1327	1.7	1
21	Twenty years of nonlinear dynamics in geosciences. *Eos*, **2007**, 88, 29	1.5	1
20	Robustness of competing climatic states. *Journal of Climate*, **2022**, 1-59	4.4	1
19	Climate model validation and selection for hydrological applications in representative Mediterranean catchments		1
18	Environmental Science, Physical Principles and Applications **2005**, 146-156		1
17	Spectroscopy of phase transitions for multiagent systems. *Chaos*, **2021**, 31, 061103	3.3	1
16	L□y noise versus Gaussian-noise-induced transitions in the Ghil□Sellers energy balance model. *Nonlinear Processes in Geophysics*, **2022**, 29, 183-205	2.9	1
15	Predictors and predictands of linear response in spatially extended systems. *European Physical Journal: Special Topics*,1	2.3	0
14	Classical Extreme Value Theory **2016**, 23-38		
13	Appendix A: Codes **2016**, 265-272		
12	Extremes as Physical Probes **2016**, 233-248		
11	Extreme Value Theory for Randomly Perturbed Dynamical Systems **2016**, 145-166		
10	Hitting and Return Time Statistics **2016**, 75-96		
9	Eddy saturation in a reduced two-level model of the atmosphere. *Geophysical and Astrophysical Fluid Dynamics*,1-18	1.4	
8	Statistical Properties of Mid-latitude Atmospheric Variability **2007**, 369-391		

7	Pure and Applied Mathematics1-3	
6	A Framework for Rare Events in Stochastic Processes and Dynamical Systems17-22	
5	Emergence of Extreme Value Laws for Dynamical Systems39-74	
4	Extremes as Dynamical and Geometrical Indicators189-232	
3	A Statistical Mechanical Point of View167-188	
2	Thermodynamic Insights into Transitions Between Climate States Under Changes in Solar and Greenhouse Forcing. *Understanding Complex Systems*, **2014**, 201-223	0.4
1	Inferring the instability of a dynamical system from the skill of data assimilation exercises. *Nonlinear Processes in Geophysics*, **2021**, 28, 633-649	2.9