

Valerio Lucarini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Robustness of competing climatic states. <i>Journal of Climate</i> , 2022 , 1-59	4.4	1
167	Decomposing the dynamics of the Lorenz 1963 model using unstable periodic orbits: Averages, transitions, and quasi-invariant sets.. <i>Chaos</i> , 2022 , 32, 033129	3.3	2
166	Low noise versus Gaussian-noise-induced transitions in the GhilBellers energy balance model. <i>Nonlinear Processes in Geophysics</i> , 2022 , 29, 183-205	2.9	1
165	Interrupting vaccination policies can greatly spread SARS-CoV-2 and enhance mortality from COVID-19 disease: The AstraZeneca case for France and Italy. <i>Chaos</i> , 2021 , 31, 041105	3.3	7
164	Reduced-order models for coupled dynamical systems: Data-driven methods and the Koopman operator. <i>Chaos</i> , 2021 , 31, 053116	3.3	7
163	Dynamical landscape and multistability of a climate model.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20210019	2.4	5
162	Spectroscopy of phase transitions for multiagent systems. <i>Chaos</i> , 2021 , 31, 061103	3.3	1
161	Applications of large deviation theory in geophysical fluid dynamics and climate science. <i>Rivista Del Nuovo Cimento</i> , 2021 , 44, 291-363	3.5	2
160	Fingerprinting Heatwaves and Cold Spells and Assessing Their Response to Climate Change Using Large Deviation Theory. <i>Physical Review Letters</i> , 2021 , 127, 058701	7.4	4
159	Inferring the instability of a dynamical system from the skill of data assimilation exercises. <i>Nonlinear Processes in Geophysics</i> , 2021 , 28, 633-649	2.9	
158	Introduction to the Special Issue on the Statistical Mechanics of Climate. <i>Journal of Statistical Physics</i> , 2020 , 179, 997-1009	1.5	1
157	Can we use linear response theory to assess geoengineering strategies?. <i>Chaos</i> , 2020 , 30, 023124	3.3	15
156	Response and Sensitivity Using Markov Chains. <i>Journal of Statistical Physics</i> , 2020 , 179, 1572-1593	1.5	4
155	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. <i>Geoscientific Model Development</i> , 2020 , 13, 3383-3438	6.3	32
154	Beyond Forcing Scenarios: Predicting Climate Change through Response Operators in a Coupled General Circulation Model. <i>Scientific Reports</i> , 2020 , 10, 8668	4.9	16
153	Global stability properties of the climate: Melancholia states, invariant measures, and phase transitions. <i>Nonlinearity</i> , 2020 , 33, R59-R92	1.7	9
152	Response theory and phase transitions for the thermodynamic limit of interacting identical systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200688	2.4	2

151	A new mathematical framework for atmospheric blocking events. <i>Climate Dynamics</i> , 2020 , 54, 575-598	4.2	19
150	Advancing Research for Seamless Earth System Prediction. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E23-E35	6.1	9
149	The Forced Response of the El Niño Southern Oscillation-Indian Monsoon Teleconnection in Ensembles of Earth System Models. <i>Journal of Climate</i> , 2020 , 33, 2163-2182	4.4	15
148	Evaluating the Performance of Climate Models Based on Wasserstein Distance. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089385	4.9	7
147	Rough basin boundaries in high dimension: Can we classify them experimentally?. <i>Chaos</i> , 2020 , 30, 103105	3.5	4
146	Mechanics and thermodynamics of a new minimal model of the atmosphere. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	4
145	The physics of climate variability and climate change. <i>Reviews of Modern Physics</i> , 2020 , 92,	40.5	68
144	TheDiaTo (v1.0) A new diagnostic tool for water, energy and entropy budgets in climate models. <i>Geoscientific Model Development</i> , 2019 , 12, 3805-3834	6.3	11
143	TheDiaTo (v1.0) A new diagnostic tool for water, energy and entropy budgets in climate models 2019 ,		2
142	Spectral Decomposition and Extremes of Atmospheric Meridional Energy Transport in the Northern Hemisphere Midlatitudes. <i>Geophysical Research Letters</i> , 2019 , 46, 7602-7613	4.9	5
141	Lyapunov analysis of multiscale dynamics: the slow bundle of the two-scale Lorenz 96 model. <i>Nonlinear Processes in Geophysics</i> , 2019 , 26, 73-89	2.9	7
140	Transitions across Melancholia States in a Climate Model: Reconciling the Deterministic and Stochastic Points of View. <i>Physical Review Letters</i> , 2019 , 122, 158701	7.4	36
139	A large deviation theory-based analysis of heat waves and cold spells in a simplified model of the general circulation of the atmosphere. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 033404	1.9	9
138	Effects of stochastic parametrization on extreme value statistics. <i>Chaos</i> , 2019 , 29, 083102	3.3	4
137	Water Pathways for the Hindu-Kush-Himalaya and an Analysis of Three Flood Events. <i>Atmosphere</i> , 2019 , 10, 489	2.7	4
136	ESMValTool v2.0 Extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP 2019 ,		4
135	Stochastic resonance for nonequilibrium systems. <i>Physical Review E</i> , 2019 , 100, 062124	2.4	14
134	Climate sensitivity to ozone and its relevance on the habitability of Earth-like planets. <i>Icarus</i> , 2019 , 321, 608-618	3.8	10

133	Crisis of the chaotic attractor of a climate model: a transfer operator approach. <i>Nonlinearity</i> , 2018 , 31, 2221-2251	1.7	23
132	Resonances in a Chaotic Attractor Crisis of the Lorenz Flow. <i>Journal of Statistical Physics</i> , 2018 , 170, 584-636	6.3	12
131	A proof of concept for scale-adaptive parametrizations: the case of the Lorenz 96 model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 63-75	6.4	24
130	Exploring the Lyapunov instability properties of high-dimensional atmospheric and climate models. <i>Nonlinear Processes in Geophysics</i> , 2018 , 25, 387-412	2.9	18
129	Evaluating a stochastic parametrization for a fast-slow system using the Wasserstein distance. <i>Nonlinear Processes in Geophysics</i> , 2018 , 25, 413-427	2.9	6
128	Revising and Extending the Linear Response Theory for Statistical Mechanical Systems: Evaluating Observables as Predictors and Predictands. <i>Journal of Statistical Physics</i> , 2018 , 173, 1698-1721	1.5	20
127	Climate Sensitivity to Carbon Dioxide and the Moist Greenhouse Threshold of Earth-like Planets under an Increasing Solar Forcing. <i>Astrophysical Journal</i> , 2018 , 869, 129	4.7	6
126	Equivalence of nonequilibrium ensembles in turbulence models. <i>Physical Review E</i> , 2018 , 98, 012202	2.4	8
125	Predicting Climate Change Using Response Theory: Global Averages and Spatial Patterns. <i>Journal of Statistical Physics</i> , 2017 , 166, 1036-1064	1.5	58
124	Fluctuations, response, and resonances in a simple atmospheric model. <i>Physica D: Nonlinear Phenomena</i> , 2017 , 349, 62-76	3.3	33
123	Convergence of Extreme Value Statistics in a Two-Layer Quasi-Geostrophic Atmospheric Model. <i>Complexity</i> , 2017 , 2017, 1-20	1.6	9
122	Return Levels of Temperature Extremes in Southern Pakistan 2017 ,		1
121	Edge states in the climate system: exploring global instabilities and critical transitions. <i>Nonlinearity</i> , 2017 , 30, R32-R66	1.7	41
120	Stochastic Parameterization: Toward a New View of Weather and Climate Models. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 565-588	6.1	176
119	Response formulae for point correlations in statistical mechanical systems and application to a problem of coarse graining. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017 , 50, 355003	2	9
118	Corridendum: Linear and fractional response for the SRB measure of smooth hyperbolic attractors and discontinuous observables (2017Nonlinearity301204). <i>Nonlinearity</i> , 2017 , 30, C4-C6	1.7	1
117	Return levels of temperature extremes in southern Pakistan. <i>Earth System Dynamics</i> , 2017 , 8, 1263-1278	4.8	12
116	Linear and fractional response for the SRB measure of smooth hyperbolic attractors and discontinuous observables. <i>Nonlinearity</i> , 2017 , 30, 1204-1220	1.7	16

115	Prevailing climatic trends and runoff response from HindukushKarakoramHimalaya, upper Indus Basin. <i>Earth System Dynamics</i> , 2017 , 8, 337-355	4.8	60
114	Lessons on Climate Sensitivity From Past Climate Changes. <i>Current Climate Change Reports</i> , 2016 , 2, 148-158	4.5	36
113	Classical Extreme Value Theory 2016 , 23-38		
112	Appendix A: Codes 2016 , 265-272		
111	Extremes as Physical Probes 2016 , 233-248		
110	Extreme Value Theory for Randomly Perturbed Dynamical Systems 2016 , 145-166		
109	Hitting and Return Time Statistics 2016 , 75-96		
108	Statistical and dynamical properties of covariant lyapunov vectors in a coupled atmosphere-ocean modelMultiscale effects, geometric degeneracy, and error dynamics. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 224001	2	36
107	Response Operators for Markov Processes in a Finite State Space: Radius of Convergence and Link to the Response Theory for Axiom A Systems. <i>Journal of Statistical Physics</i> , 2016 , 162, 312-333	1.5	21
106	Projected changes of rainfall seasonality and dry spells in a high greenhouse gas emissions scenario. <i>Climate Dynamics</i> , 2016 , 46, 1331-1350	4.2	48
105	A new framework for climate sensitivity and prediction: a modelling perspective. <i>Climate Dynamics</i> , 2016 , 46, 1459-1471	4.2	59
104	Parameterization of stochastic multiscale triads. <i>Nonlinear Processes in Geophysics</i> , 2016 , 23, 435-445	2.9	13
103	Extreme Value Theory for Selected Dynamical Systems 2016 , 97-144		2
102	Dynamical analysis of blocking events: spatial and temporal fluctuations of covariant Lyapunov vectors. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 2143-2158	6.4	18
101	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. <i>Atmospheric Research</i> , 2016 , 180, 42-63	5.4	93
100	2016 ,		84
99	Global instability in the GhilBellers model. <i>Climate Dynamics</i> , 2015 , 44, 3361-3381	4.2	25
98	Prevailing climatic trends and runoff response from HindukushKarakoramHimalaya, upper Indus basin 2015 ,		19

97	Stochastic climate theory and modeling. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2015 , 6, 63-78	8.4	82
96	Covariant Lyapunov vectors of a quasi-geostrophic baroclinic model: analysis of instabilities and feedbacks. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 3040-3055	6.4	19
95	The impact of oceanic heat transport on the atmospheric circulation. <i>Earth System Dynamics</i> , 2015 , 6, 591-615	4.8	10
94	Parametrization of Cross-scale Interaction in Multiscale Systems. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2015 , 67-80		1
93	Climate of Earth-like planets with high obliquity and eccentric orbits: Implications for habitability conditions. <i>Planetary and Space Science</i> , 2015 , 105, 43-59	2	51
92	Analysis of rainfall seasonality from observations and climate models. <i>Climate Dynamics</i> , 2015 , 44, 3281-3301	4.3	54
91	Towards a General Theory of Extremes for Observables of Chaotic Dynamical Systems. <i>Journal of Statistical Physics</i> , 2014 , 154, 723-750	1.5	28
90	Entropy production and coarse graining of the climate fields in a general circulation model. <i>Climate Dynamics</i> , 2014 , 43, 981-1000	4.2	13
89	Equivalence of Non-equilibrium Ensembles and Representation of Friction in Turbulent Flows: The Lorenz 96 Model. <i>Journal of Statistical Physics</i> , 2014 , 156, 1027-1065	1.5	28
88	Mathematical and physical ideas for climate science. <i>Reviews of Geophysics</i> , 2014 , 52, 809-859	23.1	80
87	On using extreme values to detect global stability thresholds in multi-stable systems: The case of transitional plane Couette flow. <i>Chaos, Solitons and Fractals</i> , 2014 , 64, 26-35	9.3	18
86	Elements of a unified framework for response formulae. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P01002	1.9	15
85	Numerical Bifurcation Methods and their Application to Fluid Dynamics: Analysis beyond Simulation. <i>Communications in Computational Physics</i> , 2014 , 15, 1-45	2.4	111
84	Early 21st century snow cover state over the western river basins of the Indus River system. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 4077-4100	5.5	77
83	Seasonality of the hydrological cycle in major South and Southeast Asian river basins as simulated by PCMDI/CMIP3 experiments. <i>Earth System Dynamics</i> , 2014 , 5, 67-87	4.8	31
82	Thermodynamic Insights into Transitions Between Climate States Under Changes in Solar and Greenhouse Forcing. <i>Understanding Complex Systems</i> , 2014 , 201-223	0.4	
81	Multi-level Dynamical Systems: Connecting the Ruelle Response Theory and the Mori-Zwanzig Approach. <i>Journal of Statistical Physics</i> , 2013 , 151, 850-860	1.5	56
80	Avalanches, breathers, and flow reversal in a continuous Lorenz-96 model. <i>Physical Review E</i> , 2013 , 88, 013201	2.4	6

79	Nonequilibrium thermodynamics of circulation regimes in optically thin, dry atmospheres. <i>Planetary and Space Science</i> , 2013 , 84, 48-65	2	10
78	Bistability of the climate around the habitable zone: A thermodynamic investigation. <i>Icarus</i> , 2013 , 226, 1724-1742	3.8	54
77	Nambu representation of an extended Lorenz model with viscous heating. <i>Physica D: Nonlinear Phenomena</i> , 2013 , 243, 86-91	3.3	18
76	Seasonality of the hydrological cycle in major South and Southeast Asian River Basins as simulated by PCMDI/CMIP3 experiments 2013 ,		1
75	Extreme value statistics for dynamical systems with noise. <i>Nonlinearity</i> , 2013 , 26, 2597-2622	1.7	23
74	Hydrological cycle over South and Southeast Asian river basins as simulated by PCMDI/CMIP3 experiments. <i>Earth System Dynamics</i> , 2013 , 4, 199-217	4.8	58
73	Habitability and Multistability in Earth-like Planets. <i>Astronomische Nachrichten</i> , 2013 , 334, 576-588	0.7	31
72	Regional climate models performance in representing precipitation and temperature over selected Mediterranean areas. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 5041-5059	5.5	44
71	Total cloud cover from satellite observations and climate models. <i>Atmospheric Research</i> , 2012 , 107, 161-170	3.4	26
70	GENERALIZED EXTREME VALUE DISTRIBUTION PARAMETERS AS DYNAMICAL INDICATORS OF STABILITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250276	2	15
69	Bistable systems with stochastic noise: virtues and limits of effective one-dimensional Langevin equations. <i>Nonlinear Processes in Geophysics</i> , 2012 , 19, 9-22	2.9	18
68	Stochastic Perturbations to Dynamical Systems: A Response Theory Approach. <i>Journal of Statistical Physics</i> , 2012 , 146, 774-786	1.5	31
67	Universal Behaviour of Extreme Value Statistics for Selected Observables of Dynamical Systems. <i>Journal of Statistical Physics</i> , 2012 , 147, 63-73	1.5	40
66	Relevance of sampling schemes in light of Ruelle's linear response theory. <i>Nonlinearity</i> , 2012 , 25, 1311-1327	1.7	1
65	Disentangling multi-level systems: averaging, correlations and memory. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P03003	1.9	38
64	Extreme value theory for singular measures. <i>Chaos</i> , 2012 , 22, 023135	3.3	33
63	Vertical and horizontal processes in the global atmosphere and the maximum entropy production conjecture. <i>Earth System Dynamics</i> , 2012 , 3, 19-32	4.8	14
62	Beyond the linear fluctuation-dissipation theorem: the role of causality. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P05013	1.9	21

61	ENERGETICS OF CLIMATE MODELS: NET ENERGY BALANCE AND MERIDIONAL ENTHALPY TRANSPORT. <i>Reviews of Geophysics</i> , 2011 , 49,	23.1	81
60	A statistical mechanical approach for the computation of the climatic response to general forcings. <i>Nonlinear Processes in Geophysics</i> , 2011 , 18, 7-28	2.9	71
59	Numerical Convergence of the Block-Maxima Approach to the Generalized Extreme Value Distribution. <i>Journal of Statistical Physics</i> , 2011 , 145, 1156-1180	1.5	47
58	New Results on the Thermodynamic Properties of the Climate System. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 2438-2458	2.1	30
57	Baroclinic Stationary Waves in Aquaplanet Models. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 1023-1040	10.4	8
56	Mechanisms of femtosecond laser-induced refractive index modification of poly(methyl methacrylate). <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 107	1.7	30
55	Thermodynamics of climate change: generalized sensitivities. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9729-9737	6.8	35
54	Thermodynamic analysis of snowball Earth hysteresis experiment: Efficiency, entropy production and irreversibility. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010 , 136, 2-11	6.4	64
53	Symmetry breaking, mixing, instability, and low-frequency variability in a minimal Lorenz-like system. <i>Physical Review E</i> , 2009 , 80, 026313	2.4	17
52	Thermodynamic efficiency and entropy production in the climate system. <i>Physical Review E</i> , 2009 , 80, 021118	2.4	49
51	Three-Dimensional Random Voronoi Tessellations: From Cubic Crystal Lattices to Poisson Point Processes. <i>Journal of Statistical Physics</i> , 2009 , 134, 185-206	1.5	25
50	Evidence of Dispersion Relations for the Nonlinear Response of the Lorenz 63 System. <i>Journal of Statistical Physics</i> , 2009 , 134, 381-400	1.5	42
49	. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2009 , 61, 35-49	2	10
48	Symmetry-Break in Voronoi Tessellations. <i>Symmetry</i> , 2009 , 1, 21-54	2.7	13
47	Hydrological cycle in the Danube basin in present-day and XXII century simulations by IPCCAR4 global climate models. <i>Journal of Geophysical Research</i> , 2008 , 113,		24
46	From Symmetry Breaking to Poisson Point Process in 2D Voronoi Tessellations: the Generic Nature of Hexagons. <i>Journal of Statistical Physics</i> , 2008 , 130, 1047-1062	1.5	37
45	Response Theory for Equilibrium and Non-Equilibrium Statistical Mechanics: Causality and Generalized Kramers-Kronig Relations. <i>Journal of Statistical Physics</i> , 2008 , 131, 543-558	1.5	48
44	Southern Hemisphere midlatitude atmospheric variability of the NCEP-NCAR and ECMWF reanalyses. <i>Journal of Geophysical Research</i> , 2007 , 112,		20

43	Does the Danube exist? Versions of reality given by various regional climate models and climatological data sets. <i>Journal of Geophysical Research</i> , 2007 , 112,		24
42	Twenty years of nonlinear dynamics in geosciences. <i>Eos</i> , 2007 , 88, 29	1.5	1
41	Parametric smoothness and self-scaling of the statistical properties of a minimal climate model: What beyond the mean field theories?. <i>Physica D: Nonlinear Phenomena</i> , 2007 , 234, 105-123	3.3	25
40	Experimental mathematics: Dependence of the stability properties of a two-dimensional model of the Atlantic ocean circulation on the boundary conditions. <i>Russian Journal of Mathematical Physics</i> , 2007 , 14, 224-231	1.4	7
39	Intercomparison of the northern hemisphere winter mid-latitude atmospheric variability of the IPCC models. <i>Climate Dynamics</i> , 2007 , 28, 829-848	4.2	66
38	Extreme Value Statistics of the Total Energy in an Intermediate-Complexity Model of the Midlatitude Atmospheric Jet. Part II: Trend Detection and Assessment. <i>Journals of the Atmospheric Sciences</i> , 2007 , 64, 2159-2175	2.1	22
37	Extreme Value Statistics of the Total Energy in an Intermediate-Complexity Model of the Midlatitude Atmospheric Jet. Part I: Stationary Case. <i>Journals of the Atmospheric Sciences</i> , 2007 , 64, 2137-2158 ²⁷	2.1	27
36	Statistical Properties of Mid-latitude Atmospheric Variability 2007 , 369-391		
35	Self-Scaling of the Statistical Properties of a Minimal Model of the Atmospheric Circulation 2007 , 197-219		2
34	Does the subtropical jet catalyze the midlatitude atmospheric regimes?. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	22
33	Thermohaline Circulation Stability: A Box Model Study. Part II: Coupled Atmosphere-Ocean Model. <i>Journal of Climate</i> , 2005 , 18, 514-529	4.4	12
32	Thermohaline Circulation Stability: A Box Model Study. Part I: Uncoupled Model. <i>Journal of Climate</i> , 2005 , 18, 501-513	4.4	13
31	Destabilization of the thermohaline circulation by transient changes in the hydrological cycle. <i>Climate Dynamics</i> , 2005 , 24, 253-262	4.2	12
30	Hayashi spectra of the northern hemisphere mid-latitude atmospheric variability in the NCEP-NCAR and ECMWF reanalyses. <i>Climate Dynamics</i> , 2005 , 25, 639-652	4.2	51
29	Testing the validity of terahertz reflection spectra by dispersion relations. <i>Physical Review B</i> , 2005 , 72,	3.3	11
28	Detection and correction of the misplacement error in terahertz spectroscopy by application of singly subtractive Kramers-Kronig relations. <i>Physical Review B</i> , 2005 , 72,	3.3	28
27	Environmental Science, Physical Principles and Applications 2005 , 146-156		1
26	Kramers-Kronig relations and sum rules of negative refractive index media. <i>European Physical Journal B</i> , 2004 , 41, 61-65	1.2	38

25	Kramers-Kronig relations and sum rules in nonlinear optical spectroscopy. <i>Applied Spectroscopy</i> , 2004 , 58, 499-509	3.1	14
24	Multiply subtractive Kramers-Kronig relations for arbitrary-order harmonic generation susceptibilities. <i>Optics Communications</i> , 2003 , 218, 409-414	2	26
23	Multiply subtractive generalized Kramers-Kronig relations: Application on third-harmonic generation susceptibility on polysilane. <i>Journal of Chemical Physics</i> , 2003 , 119, 11095-11098	3.9	18
22	Verification of generalized Kramers-Kronig relations and sum rules on experimental data of third harmonic generation susceptibility on polymer. <i>Journal of Chemical Physics</i> , 2003 , 119, 620-627	3.9	13
21	Towards a definition of climate science. <i>International Journal of Environment and Pollution</i> , 2002 , 18, 413	0.7	18
20	Comparison of mean climate trends in the Northern Hemisphere between National Centers for Environmental Prediction and two atmosphere-ocean model forced runs. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 7-1		36
19	Spatial-dispersion and relativistic effects in the optical sum rules. <i>European Physical Journal B</i> , 2001 , 23, 319-323	1.2	3
18	Asymptotic behaviour and general properties of harmonic generation susceptibilities. <i>European Physical Journal B</i> , 2000 , 17, 567-573	1.2	13
17	Pump and probe nonlinear processes: new modified sum rules from a simple oscillator model. <i>European Physical Journal B</i> , 1999 , 12, 323-330	1.2	11
16	General properties of optical harmonic generation from a simple oscillator model. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1998 , 20, 1117-1125		14
15	Modeling Complexity: The Case of Climate Science		6
14	L ^q -noise versus Gaussian-noise-induced Transitions in the Ghil-Sellers Energy Balance Model		2
13	Eddy saturation in a reduced two-level model of the atmosphere. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1-18	1.4	
12	Total cloud cover from satellite observations and climate models		3
11	Thermodynamics of climate change: generalized sensitivities		5
10	Hydrological cycle over south and southeast Asian river basins as simulated by PCMDI/CMIP3 experiments		5
9	Early 21st century climatology of snow cover for the western river basins of the Indus River System		7
8	Climate model validation and selection for hydrological applications in representative Mediterranean catchments		1

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1 Analysis of a bistable climate toy model with physics-based machine learning methods. *European Physical Journal: Special Topics*,1 2.3 2