

Yosef Ashkenazy

List of Publications by Year in descending order

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113
papers

4,632
citations

136740

32
h-index

102304

66
g-index

119
all docs

119
docs citations

119
times ranked

3879
citing authors

#	ARTICLE	IF	CITATIONS
1	Snowball Earth climate dynamics and Cryogenian geology-geobiology. <i>Science Advances</i> , 2017, 3, e1600983.	4.7	424
2	Magnitude and Sign Correlations in Heartbeat Fluctuations. <i>Physical Review Letters</i> , 2001, 86, 1900-1903.	2.9	361
3	Multifractal properties of price fluctuations of stocks and commodities. <i>Europhysics Letters</i> , 2003, 61, 422-428.	0.7	306
4	When human walking becomes random walking: fractal analysis and modeling of gait rhythm fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 302, 138-147.	1.2	188
5	Characterization of sleep stages by correlations in the magnitude and sign of heartbeat increments. <i>Physical Review E</i> , 2002, 65, 051908.	0.8	161
6	Magnitude and sign scaling in power-law correlated time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 323, 19-41.	1.2	160
7	A stochastic model of human gait dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 316, 662-670.	1.2	157
8	Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. <i>Ocean Science</i> , 2014, 10, 281-322.	1.3	154
9	Nonlinearity and multifractality of climate change in the past 420,000 years. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	141
10	Why Do Active and Stabilized Dunes Coexist under the Same Climatic Conditions?. <i>Physical Review Letters</i> , 2007, 98, 188001.	2.9	127
11	Multifractal chaotic attractors in a system of delay-differential equations modeling road traffic. <i>Chaos</i> , 2002, 12, 1006-1014.	1.0	120
12	Correlation differences in heartbeat fluctuations during rest and exercise. <i>Physical Review E</i> , 2002, 66, 062902.	0.8	113
13	Application of statistical physics to heartbeat diagnosis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 274, 99-110.	1.2	102
14	Sand dune dynamics and climate change: A modeling approach. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	99
15	Sand dune mobility under climate change in the Kalahari and Australian deserts. <i>Climatic Change</i> , 2012, 112, 901-923.	1.7	84
16	Teleconnection Paths via Climate Network Direct Link Detection. <i>Physical Review Letters</i> , 2015, 115, 268501.	2.9	80
17	Statistical physics approaches to the complex Earth system. <i>Physics Reports</i> , 2021, 896, 1-84.	10.3	79
18	Network analysis reveals strongly localized impacts of El Niño. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7543-7548.	3.3	76

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19	Model for cardiorespiratory synchronization in humans. <i>Physical Review E</i> , 2002, 65, 051923.	0.8	73
20	Are the 41 kyr glacial oscillations a linear response to Milankovitch forcing?. <i>Quaternary Science Reviews</i> , 2004, 23, 1879-1890.	1.4	73
21	Dominant Imprint of Rossby Waves in the Climate Network. <i>Physical Review Letters</i> , 2013, 111, 138501.	2.9	70
22	Dynamics of a Snowball Earth ocean. <i>Nature</i> , 2013, 495, 90-93.	13.7	58
23	Volatility of linear and nonlinear time series. <i>Physical Review E</i> , 2005, 72, 011913.	0.8	55
24	Noise Effects on the Complex Patterns of Abnormal Heartbeats. <i>Physical Review Letters</i> , 2001, 87, 068104.	2.9	52
25	Delay-induced chaos with multifractal attractor in a traffic flow model. <i>Europhysics Letters</i> , 2002, 57, 151-157.	0.7	50
26	Nonlinear volatility of river flux fluctuations. <i>Physical Review E</i> , 2003, 67, 042101.	0.8	50
27	A stochastic model of river discharge fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 330, 283-290.	1.2	49
28	Percolation framework to describe El Niño conditions. <i>Chaos</i> , 2017, 27, 035807.	1.0	48
29	Inferring the impact of rainfall gradient on biocrusts' developmental stage and thus on soil physical structures in sand dunes. <i>Aeolian Research</i> , 2014, 13, 81-89.	1.1	41
30	Continental constriction and oceanic ice cover thickness in a Snowball Earth scenario. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	39
31	Asymmetry of Daily Temperature Records. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 3327-3336.	0.6	36
32	Complex patterns of abnormal heartbeats. <i>Physical Review E</i> , 2002, 66, 031901.	0.8	33
33	Discrimination of the Healthy and Sick Cardiac Autonomic Nervous System by a New Wavelet Analysis of Heartbeat Intervals. <i>Fractals</i> , 1998, 06, 197-203.	1.8	32
34	Biogenic crust dynamics on sand dunes. <i>Physical Review E</i> , 2013, 87, 020701.	0.8	32
35	Forecasting the magnitude and onset of El Niño based on climate network. <i>New Journal of Physics</i> , 2018, 20, 043036.	1.2	32
36	The effect of wind speed averaging time on the calculation of sand drift potential: New scaling laws. <i>Earth and Planetary Science Letters</i> , 2020, 544, 116373.	1.8	32

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37	Scale-specific and scale-independent measures of heart rate variability as risk indicators. <i>Europhysics Letters</i> , 2001, 53, 709-715.	0.7	30
38	The surface temperature of Europa. <i>Heliyon</i> , 2019, 5, e01908.	1.4	29
39	DISCRIMINATION BETWEEN HEALTHY AND SICK CARDIAC ALTONOMIC NERVOUS SYSTEM BY DETRENDED HEART RATE VARIABILITY ANALYSIS. <i>Fractals</i> , 1999, 07, 85-91.	1.8	28
40	Significant Impact of Rossby Waves on Air Pollution Detected by Network Analysis. <i>Geophysical Research Letters</i> , 2019, 46, 12476-12485.	1.5	28
41	Dynamics of the global meridional ice flow of Europa's icy shell. <i>Nature Astronomy</i> , 2018, 2, 43-49.	4.2	28
42	Chaoticlike Behavior in a Quantum System without Classical Counterpart. <i>Physical Review Letters</i> , 1995, 75, 1070-1073.	2.9	27
43	Spatiotemporal model for the progression of transgressive dunes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 4502-4515.	1.2	27
44	Climate network percolation reveals the expansion and weakening of the tropical component under global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12128-E12134.	3.3	26
45	Settlement Fluctuations and Environmental Changes in Israel's Coastal Plain During the Early Bronze Age. <i>Levant</i> , 2009, 41, 19-39.	0.3	24
46	Oceanic El-Niño wave dynamics and climate networks. <i>New Journal of Physics</i> , 2016, 18, 033021.	1.2	24
47	The use of generalized information dimension in measuring fractal dimension of time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 271, 427-447.	1.2	23
48	Timing and significance of maximum and minimum equatorial insolation. <i>Paleoceanography</i> , 2008, 23, .	3.0	22
49	On the Probability and Spatial Distribution of Ocean Surface Currents. <i>Journal of Physical Oceanography</i> , 2011, 41, 2295-2306.	0.7	22
50	Ocean Circulation under Globally Glaciated Snowball Earth Conditions: Steady-State Solutions. <i>Journal of Physical Oceanography</i> , 2014, 44, 24-43.	0.7	21
51	Multiple equilibria and overturning variability of the Aegean-Adriatic Seas. <i>Global and Planetary Change</i> , 2017, 151, 49-59.	1.6	21
52	Modeling the bistability of barchan and parabolic dunes. <i>Aeolian Research</i> , 2018, 35, 9-18.	1.1	21
53	Dynamic Europa ocean shows transient Taylor columns and convection driven by ice melting and salinity. <i>Nature Communications</i> , 2021, 12, 6376.	5.8	21
54	The effect of wind and precipitation on vegetation and biogenic crust covers in the Sde-Hallamish sand dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 437-450.	1.0	20

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55	Box modeling of the Eastern Mediterranean sea. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 1519-1531.	1.2	18
56	Effect of wind variability on topographic waves: Lake Kinneret case. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	17
57	Excess in precipitation as a cause for settlement decline along the Israeli coastal plain during the third millennium BC. <i>Quaternary Research</i> , 2007, 68, 37-44.	1.0	17
58	Statistical tests for the distribution of surface wind and current speeds across the globe. <i>Renewable Energy</i> , 2020, 149, 861-876.	4.3	16
59	The effects of psammophilous plants on sand dune dynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1636-1650.	1.0	15
60	Variability, Instabilities, and Eddies in a Snowball Ocean. <i>Journal of Climate</i> , 2016, 29, 869-888.	1.2	15
61	Scale-free distribution of Dead Sea sinkholes: Observations and modeling. <i>Geophysical Research Letters</i> , 2017, 44, 4944-4952.	1.5	15
62	Simple stochastic models for glacial dynamics. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	12
63	Volatility of fractal and multifractal time series. <i>Israel Journal of Earth Sciences</i> , 2007, 56, 47-56.	0.3	12
64	The Effect of Milankovitch Variations in Insolation on Equatorial Seasonality. <i>Journal of Climate</i> , 2010, 23, 6133-6142.	1.2	11
65	A Coupled Vegetation-Crust Model for Patchy Landscapes. <i>Pure and Applied Geophysics</i> , 2016, 173, 983-993.	0.8	11
66	A Wind-Induced Thermohaline Circulation Hysteresis and Millennial Variability Regimes. <i>Journal of Physical Oceanography</i> , 2007, 37, 2446-2457.	0.7	10
67	The effect of stochastic wind on the infinite depth Ekman layer model. <i>Europhysics Letters</i> , 2015, 111, 39001.	0.7	10
68	Periodic temporal oscillations in biocrust-vegetation dynamics on sand dunes. <i>Aeolian Research</i> , 2016, 20, 35-44.	1.1	10
69	Scaling laws in earthquake memory for interevent times and distances. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
70	Decomposition of heartbeat time series: scaling analysis of the sign sequence. <i>Computers in Cardiology</i> , 2000, 27, 139-42.	1.0	10
71	Decomposition of heartbeat time series: scaling analysis of the sign sequence. , 0, , .		9
72	Scenarios regarding the lead of equatorial sea surface temperature over global ice volume. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	9

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73	The role of sea ice in the temperature-precipitation feedback of glacial cycles. <i>Climate Dynamics</i> , 2014, 43, 1001-1010.	1.7	9
74	Network approaches to climate science. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	2.0	9
75	Possible origin of memory in earthquakes: Real catalogs and an epidemic-type aftershock sequence model. <i>Physical Review E</i> , 2019, 99, 042210.	0.8	9
76	The Effect of the Source of Deep Water in the Eastern Mediterranean on Western Mediterranean Intermediate and Deep Water. <i>Frontiers in Marine Science</i> , 2021, 7, .	1.2	9
77	Improved earthquake aftershocks forecasting model based on long-term memory. <i>New Journal of Physics</i> , 2021, 23, 042001.	1.2	9
78	Seasonality Effects on Nonlinear Properties of Hydrometeorological Records. , 2011, , 266-284.		9
79	The necessity for a time local dimension in systems with time-varying attractors. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 236, 363-375.	1.2	8
80	Chaotic signatures in the spectrum of a quantum double well. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 238, 279-284.	1.2	8
81	Preservation of long range temporal correlations under extreme random dilution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 5573-5580.	1.2	8
82	Current temporal asymmetry and the role of tides: Nan-Wan Bay vs. the Gulf of Elat. <i>Ocean Science</i> , 2016, 12, 733-742.	1.3	8
83	Sand Dune Albedo Feedback. <i>Geosciences (Switzerland)</i> , 2018, 8, 82.	1.0	8
84	The role of phase locking in a simple model for glacial dynamics. <i>Climate Dynamics</i> , 2006, 27, 421-431.	1.7	7
85	Long-range temporal correlations of ocean surface currents. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	7
86	Multiple sea-ice states and abrupt MOC transitions in a general circulation ocean model. <i>Climate Dynamics</i> , 2013, 40, 1803-1817.	1.7	7
87	The effect of wind-stress over the Eastern Mediterranean on deep-water formation in the Adriatic Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 164, 5-13.	0.6	7
88	Complexity, tunneling, and geometrical symmetry. <i>Physical Review E</i> , 1997, 55, 3697-3700.	0.8	6
89	Fourier analysis of light scattered by elongated scatterers. <i>Applied Optics</i> , 1999, 38, 3626.	2.1	6
90	Chaos of the relativistic parametrically forced van der Pol oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 243, 195-204.	0.9	5

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91	Classical nonlinearity and quantum decay: The effect of classical phase-space structures. <i>Physical Review E</i> , 2001, 64, 056215.	0.8	5
92	The relationship between the statistics of open ocean currents and the temporal correlations of the wind stress. <i>New Journal of Physics</i> , 2013, 15, 053024.	1.2	4
93	Energy transfer of surface wind-induced currents to the deep ocean via resonance with the Coriolis force. <i>Journal of Marine Systems</i> , 2017, 167, 93-104.	0.9	3
94	Optimal COVID-19 infection spread under low temperature, dry air, and low UV radiation. <i>New Journal of Physics</i> , 2021, 23, 033044.	1.2	3
95	Asymmetry in Earthquake Interevent Time Intervals. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022454.	1.4	3
96	Sand dune vegetation-biocrust interaction as a source of spatial heterogeneity. <i>Journal of Hydrology and Hydromechanics</i> , 2022, 70, 145-155.	0.7	3
97	A new time-scale for tunneling. <i>Foundations of Physics</i> , 1997, 27, 191-202.	0.6	2
98	The effect of radiation on the stochastic web. <i>Discrete Dynamics in Nature and Society</i> , 2000, 4, 283-292.	0.5	2
99	A new approximation for the dynamics of topographic Rossby waves. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2012, 64, 18160.	0.8	2
100	THE RADIATIVE KICKED OSCILLATOR: A STOCHASTIC WEB OR CHAOTIC ATTRACTOR?. <i>Fractals</i> , 2002, 10, 353-371.	1.8	1
101	Wind Spatial Variability and Topographic Wave Frequency. <i>Journal of Physical Oceanography</i> , 2008, 38, 2085-2096.	0.7	1
102	On the meridional structure of extra-tropical Rossby waves. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2011, 63, 817-827.	0.8	1
103	Non-hydrostatic effects in the Dead Sea. <i>Journal of Marine Systems</i> , 2018, 187, 36-51.	0.9	1
104	Chaos and Multifractality in a Time-Delay Car-Following Traffic Model. , 2003, , 119-124.		1
105	Statistical Properties of Commodity Price Fluctuations. , 2004, , 192-197.		1
106	Chaos and Decoherence in a Quantum System with a Regular Classical Counterpart. , 1997, , 31-37.		0
107	Enhancement of decoherence by chaotic-like behavior. <i>Foundations of Physics</i> , 1997, 27, 203-214.	0.6	0
108	Finding hidden patterns in complex ventricular ectopy. , 0, ,		0

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109	Calculation of energy spectrum and eigenstates of 1D time-independent short-range potentials. Physica A: Statistical Mechanics and Its Applications, 2001, 293, 189-199.	1.2	0
110	10.1063/5.0087296.3. , 2022, , .		0
111	10.1063/5.0087296.2. , 2022, , .		0
112	Spatiotemporal dynamics of biocrust and vegetation on sand dunes. Chaos, 2022, 32, 053103.	1.0	0
113	10.1063/5.0087296.1. , 2022, , .		0