Yosef Ashkenazy

List of Publications by Year in descending order

113 papers	4,632 citations	136950 32 h-index	102487 66 g-index
119 all docs	119 docs citations	119 times ranked	3879 citing authors

#	Article	IF	Citations
1	10.1063/5.0087296.3. , 2022, , .		0
2	10.1063/5.0087296.2. , 2022, , .		0
3	Spatiotemporal dynamics of biocrust and vegetation on sand dunes. Chaos, 2022, 32, 053103.	2.5	0
4	10.1063/5.0087296.1. , 2022, , .		0
5	Sand dune vegetation-biocrust interaction as a source of spatial heterogeneity. Journal of Hydrology and Hydromechanics, 2022, 70, 145-155.	2.0	3
6	Statistical physics approaches to the complex Earth system. Physics Reports, 2021, 896, 1-84.	25.6	79
7	The Effect of the Source of Deep Water in the Eastern Mediterranean on Western Mediterranean Intermediate and Deep Water. Frontiers in Marine Science, 2021, 7, .	2.5	9
8	Optimal COVID-19 infection spread under low temperature, dry air, and low UV radiation. New Journal of Physics, 2021, 23, 033044.	2.9	3
9	Improved earthquake aftershocks forecasting model based on long-term memory. New Journal of Physics, 2021, 23, 042001.	2.9	9
10	Asymmetry in Earthquake Interevent Time Intervals. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022454.	3.4	3
11	Dynamic Europa ocean shows transient Taylor columns and convection driven by ice melting and salinity. Nature Communications, 2021, 12, 6376.	12.8	21
12	Statistical tests for the distribution of surface wind and current speeds across the globe. Renewable Energy, 2020, 149, 861-876.	8.9	16
13	The effect of wind speed averaging time on the calculation of sand drift potential: New scaling laws. Earth and Planetary Science Letters, 2020, 544, 116373.	4.4	32
14	Scaling laws in earthquake memory for interevent times and distances. Physical Review Research, 2020, 2, .	3.6	10
15	Significant Impact of Rossby Waves on Air Pollution Detected by Network Analysis. Geophysical Research Letters, 2019, 46, 12476-12485.	4.0	28
16	The surface temperature of Europa. Heliyon, 2019, 5, e01908.	3.2	29
17	Possible origin of memory in earthquakes: Real catalogs and an epidemic-type aftershock sequence model. Physical Review E, 2019, 99, 042210.	2.1	9
18	The effect of wind-stress over the Eastern Mediterranean on deep-water formation in the Adriatic Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2019, 164, 5-13.	1.4	7

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19	Sand Dune Albedo Feedback. Geosciences (Switzerland), 2018, 8, 82.	2.2	8
20	Climate network percolation reveals the expansion and weakening of the tropical component under global warming. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12128-E12134.	7.1	26
21	Modeling the bistability of barchan and parabolic dunes. Aeolian Research, 2018, 35, 9-18.	2.7	21
22	Non-hydrostatic effects in the Dead Sea. Journal of Marine Systems, 2018, 187, 36-51.	2.1	1
23	Forecasting the magnitude and onset of El NiÃ±o based on climate network. New Journal of Physics, 2018, 20, 043036.	2.9	32
24	Dynamics of the global meridional ice flow of Europaâ€™s icy shell. Nature Astronomy, 2018, 2, 43-49.	10.1	28
25	Multiple equilibria and overturning variability of the Aegean-Adriatic Seas. Global and Planetary Change, 2017, 151, 49-59.	3.5	21
26	Percolation framework to describe El NiÃ±o conditions. Chaos, 2017, 27, 035807.	2.5	48
27	Scaleâ€free distribution of Dead Sea sinkholes: Observations and modeling. Geophysical Research Letters, 2017, 44, 4944-4952.	4.0	15
28	Energy transfer of surface wind-induced currents to the deep ocean via resonance with the Coriolis force. Journal of Marine Systems, 2017, 167, 93-104.	2.1	3
29	Snowball Earth climate dynamics and Cryogenian geology-geobiology. Science Advances, 2017, 3, e1600983.	10.3	424
30	Network analysis reveals strongly localized impacts of El NiÃ±o. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7543-7548.	7.1	76
31	Network approaches to climate science. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	9
32	Current temporal asymmetry and the role of tides: Nan-Wan Bay vs. the Gulf of Elat. Ocean Science, 2016, 12, 733-742.	3.4	8
33	Variability, Instabilities, and Eddies in a Snowball Ocean. Journal of Climate, 2016, 29, 869-888.	3.2	15
34	Oceanic El-NiÃ±o wave dynamics and climate networks. New Journal of Physics, 2016, 18, 033021.	2.9	24
35	Periodic temporal oscillations in biocrustâ€“vegetation dynamics on sand dunes. Aeolian Research, 2016, 20, 35-44.	2.7	10
36	A Coupled Vegetationâ€“Crust Model for Patchy Landscapes. Pure and Applied Geophysics, 2016, 173, 983-993.	1.9	11

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37	Teleconnection Paths via Climate Network Direct Link Detection. Physical Review Letters, 2015, 115, 268501.	7.8	80
38	The effect of stochastic wind on the infinite depth Ekman layer model. Europhysics Letters, 2015, 111, 39001.	2.0	10
39	The effects of psammophilous plants on sand dune dynamics. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1636-1650.	2.8	15
40	Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. Ocean Science, 2014, 10, 281-322.	3.4	154
41	The role of sea ice in the temperature-precipitation feedback of glacial cycles. Climate Dynamics, 2014, 43, 1001-1010.	3.8	9
42	Inferring the impact of rainfall gradient on biocrustsâ€™ developmental stage and thus on soil physical structures in sand dunes. Aeolian Research, 2014, 13, 81-89.	2.7	41
43	Ocean Circulation under Globally Glaciated Snowball Earth Conditions: Steady-State Solutions. Journal of Physical Oceanography, 2014, 44, 24-43.	1.7	21
44	The effect of wind and precipitation on vegetation and biogenic crust covers in the Sde-Hallamish sand dunes. Journal of Geophysical Research F: Earth Surface, 2014, 119, 437-450.	2.8	20
45	Multiple sea-ice states and abrupt MOC transitions in a general circulation ocean model. Climate Dynamics, 2013, 40, 1803-1817.	3.8	7
46	Spatiotemporal model for the progression of transgressive dunes. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 4502-4515.	2.6	27
47	Dominant Imprint of Rossby Waves in the Climate Network. Physical Review Letters, 2013, 111, 138501.	7.8	70
48	Biogenic crust dynamics on sand dunes. Physical Review E, 2013, 87, 020701.	2.1	32
49	Dynamics of a Snowball Earth ocean. Nature, 2013, 495, 90-93.	27.8	58
50	The relationship between the statistics of open ocean currents and the temporal correlations of the wind stress. New Journal of Physics, 2013, 15, 053024.	2.9	4
51	Continental constriction and oceanic iceâ€cover thickness in a Snowballâ€Earth scenario. Journal of Geophysical Research, 2012, 117, .	3.3	39
52	Sand dune mobility under climate change in the Kalahari and Australian deserts. Climatic Change, 2012, 112, 901-923.	3.6	84
53	Box modeling of the Eastern Mediterranean sea. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1519-1531.	2.6	18
54	A new approximation for the dynamics of topographic Rossby waves. Tellus, Series A: Dynamic Meteorology and Oceanography, 2012, 64, 18160.	1.7	2

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55	On the meridional structure of extra-tropical Rossby waves. Tellus, Series A: Dynamic Meteorology and Oceanography, 2011, 63, 817-827.	1.7	1
56	On the Probability and Spatial Distribution of Ocean Surface Currents. Journal of Physical Oceanography, 2011, 41, 2295-2306.	1.7	22
57	Seasonality Effects on Nonlinear Properties of Hydrometeorological Records. , 2011, , 266-284.		9
58	Preservation of long range temporal correlations under extreme random dilution. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5573-5580.	2.6	8
59	The Effect of Milankovitch Variations in Insolation on Equatorial Seasonality. Journal of Climate, 2010, 23, 6133-6142.	3.2	11
60	Settlement Fluctuations and Environmental Changes in Israel's Coastal Plain During the Early Bronze Age. Levant, 2009, 41, 19-39.	0.9	24
61	Longâ€range temporal correlations of ocean surface currents. Journal of Geophysical Research, 2009, 114, .	3.3	7
62	Sand dune dynamics and climate change: A modeling approach. Journal of Geophysical Research, 2009, 114, .	3.3	99
63	Timing and significance of maximum and minimum equatorial insolation. Paleoceanography, 2008, 23, .	3.0	22
64	Asymmetry of Daily Temperature Records. Journals of the Atmospheric Sciences, 2008, 65, 3327-3336.	1.7	36
65	Wind Spatial Variability and Topographic Wave Frequency. Journal of Physical Oceanography, 2008, 38, 2085-2096.	1.7	1
66	A Wind-Induced Thermohaline Circulation Hysteresis and Millennial Variability Regimes. Journal of Physical Oceanography, 2007, 37, 2446-2457.	1.7	10
67	Why Do Active and Stabilized Dunes Coexist under the Same Climatic Conditions?. Physical Review Letters, 2007, 98, 188001.	7.8	127
68	Effect of wind variability on topographic waves: Lake Kinneret case. Journal of Geophysical Research, 2007, 112, .	3.3	17
69	Excess in precipitation as a cause for settlement decline along the Israeli coastal plain during the third millennium BC. Quaternary Research, 2007, 68, 37-44.	1.7	17
70	Volatility of fractal and multifractal time series. Israel Journal of Earth Sciences, 2007, 56, 47-56.	0.3	12
71	Scenarios regarding the lead of equatorial sea surface temperature over global ice volume. Paleoceanography, 2006, 21, n/a-n/a.	3.0	9
72	The role of phase locking in a simple model for glacial dynamics. Climate Dynamics, 2006, 27, 421-431.	3.8	7

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73	Volatility of linear and nonlinear time series. Physical Review E, 2005, 72, 011913.	2.1	55
74	Simple stochastic models for glacial dynamics. Journal of Geophysical Research, 2005, 110, .	3.3	12
75	Are the 41 kyr glacial oscillations a linear response to Milankovitch forcing?. Quaternary Science Reviews, 2004, 23, 1879-1890.	3.0	73
76	Statistical Properties of Commodity Price Fluctuations. , 2004, , 192-197.		1
77	A stochastic model of river discharge fluctuations. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 283-290.	2.6	49
78	Magnitude and sign scaling in power-law correlated time series. Physica A: Statistical Mechanics and Its Applications, 2003, 323, 19-41.	2.6	160
79	Nonlinearity and multifractality of climate change in the past 420,000 years. Geophysical Research Letters, 2003, 30, .	4.0	141
80	Nonlinear volatility of river flux fluctuations. Physical Review E, 2003, 67, 042101.	2.1	50
81	Multifractal properties of price fluctuations of stocks and commodities. Europhysics Letters, 2003, 61, 422-428.	2.0	306
82	Chaos and Multifractality in a Time-Delay Car-Following Traffic Model. , 2003, , 119-124.		1
83	Correlation differences in heartbeat fluctuations during rest and exercise. Physical Review E, 2002, 66, 062902.	2.1	113
84	Model for cardiorespiratory synchronization in humans. Physical Review E, 2002, 65, 051923.	2.1	73
85	Characterization of sleep stages by correlations in the magnitude and sign of heartbeat increments. Physical Review E, 2002, 65, 051908.	2.1	161
86	Multifractal chaotic attractors in a system of delay-differential equations modeling road traffic. Chaos, 2002, 12, 1006-1014.	2.5	120
87	THE RADIATIVE KICKED OSCILLATOR: A STOCHASTIC WEB OR CHAOTIC ATTRACTOR?. Fractals, 2002, 10, 353-371.	3.7	1
88	Delay-induced chaos with multifractal attractor in a traffic flow model. Europhysics Letters, 2002, 57, 151-157.	2.0	50
89	Complex patterns of abnormal heartbeats. Physical Review E, 2002, 66, 031901.	2.1	33
90	A stochastic model of human gait dynamics. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 662-670.	2.6	157

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91	Scale-specific and scale-independent measures of heart rate variability as risk indicators. Europhysics Letters, 2001, 53, 709-715.	2.0	30
92	Calculation of energy spectrum and eigenstates of 1D time-independent short-range potentials. Physica A: Statistical Mechanics and Its Applications, 2001, 293, 189-199.	2.6	0
93	When human walking becomes random walking: fractal analysis and modeling of gait rhythm fluctuations. Physica A: Statistical Mechanics and Its Applications, 2001, 302, 138-147.	2.6	188
94	Classical nonlinearity and quantum decay: The effect of classical phase-space structures. Physical Review E, 2001, 64, 056215.	2.1	5
95	Noise Effects on the Complex Patterns of Abnormal Heartbeats. Physical Review Letters, 2001, 87, 068104.	7.8	52
96	Magnitude and Sign Correlations in Heartbeat Fluctuations. Physical Review Letters, 2001, 86, 1900-1903.	7.8	361
97	The effect of radiation on the stochastic web. Discrete Dynamics in Nature and Society, 2000, 4, 283-292.	0.9	2
98	Decomposition of heartbeat time series: scaling analysis of the sign sequence. Computers in Cardiology, 2000, 27, 139-42.	1.0	10
99	DISCRIMINATION BETWEEN HEALTHY AND SICK CARDIAC AUTONOMIC NERVOUS SYSTEM BY DETRENDED HEART RATE VARIABILITY ANALYSIS. Fractals, 1999, 07, 85-91.	3.7	28
100	The use of generalized information dimension in measuring fractal dimension of time series. Physica A: Statistical Mechanics and Its Applications, 1999, 271, 427-447.	2.6	23
101	Application of statistical physics to heartbeat diagnosis. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 99-110.	2.6	102
102	Fourier analysis of light scattered by elongated scatterers. Applied Optics, 1999, 38, 3626.	2.1	6
103	Chaos of the relativistic parametrically forced van der Pol oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 243, 195-204.	2.1	5
104	Discrimination of the Healthy and Sick Cardiac Autonomic Nervous System by a New Wavelet Analysis of Heartbeat Intervals. Fractals, 1998, 06, 197-203.	3.7	32
105	Chaos and Decoherence in a Quantum System with a Regular Classical Counterpart. , 1997, , 31-37.		0
106	Complexity, tunneling, and geometrical symmetry. Physical Review E, 1997, 55, 3697-3700.	2.1	6
107	A new time-scale for tunneling. Foundations of Physics, 1997, 27, 191-202.	1.3	2
108	Enhancement of decoherence by chaotic-like behavior. Foundations of Physics, 1997, 27, 203-214.	1.3	0

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109	The necessity for a time local dimension in systems with time-varying attractors. Physica A: Statistical Mechanics and Its Applications, 1997, 236, 363-375.	2.6	8
110	Chaotic signatures in the spectrum of a quantum double well. Physica A: Statistical Mechanics and Its Applications, 1997, 238, 279-284.	2.6	8
111	Chaoticlike Behavior in a Quantum System without Classical Counterpart. Physical Review Letters, 1995, 75, 1070-1073.	7.8	27
112	Decomposition of heartbeat time series: scaling analysis of the sign sequence. , 0, , .		9
113	Finding hidden patterns in complex ventricular ectopy. , 0, , .		0