

Jan A Freund

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,372
citations

430874

18
h-index

345221

36
g-index

52
all docs

52
docs citations

52
times ranked

1683
citing authors

#	ARTICLE	IF	CITATIONS
1	Helgoland Roads, North Sea: 45 Years of Change. <i>Estuaries and Coasts</i> , 2010, 33, 295-310.	2.2	198
2	Thresholds for ecological responses to global change do not emerge from empirical data. <i>Nature Ecology and Evolution</i> , 2020, 4, 1502-1509.	7.8	151
3	Frequency and phase synchronization in stochastic systems. <i>Chaos</i> , 2003, 13, 225-238.	2.5	92
4	ICBM-OCEAN: Processing Ultrahigh-Resolution Mass Spectrometry Data of Complex Molecular Mixtures. <i>Analytical Chemistry</i> , 2020, 92, 6832-6838.	6.5	74
5	Behavioral Stochastic Resonance: How the Noise from a Daphnia Swarm Enhances Individual Prey Capture by Juvenile Paddlefish. <i>Journal of Theoretical Biology</i> , 2002, 214, 71-83.	1.7	71
6	A statistical approach to vehicular traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 219, 95-113.	2.6	62
7	Comparative gene expression profiling by oligonucleotide fingerprinting. <i>Nucleic Acids Research</i> , 1998, 26, 2216-2223.	14.5	60
8	Bloom dynamics in a seasonally forced phytoplankton-zooplankton model: Trigger mechanisms and timing effects. <i>Ecological Complexity</i> , 2006, 3, 129-139.	2.9	60
9	Diffusion in discrete ratchets. <i>Physical Review E</i> , 1999, 60, 1304-1309.	2.1	59
10	Noise-induced phase synchronization enhanced by dichotomic noise. <i>Physical Review E</i> , 2001, 64, 051107.	2.1	59
11	Methane in the southern North Sea: Sources, spatial distribution and budgets. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 81, 445-456.	2.1	59
12	Oscillatory systems driven by noise: Frequency and phase synchronization. <i>Physical Review E</i> , 2002, 65, 051110.	2.1	58
13	Non-linear EEG analyses predict non-response to rTMS treatment in major depressive disorder. <i>Clinical Neurophysiology</i> , 2014, 125, 1392-1399.	1.5	46
14	Improved Mass Accuracy and Isotope Confirmation through Alignment of Ultrahigh-Resolution Mass Spectra of Complex Natural Mixtures. <i>Analytical Chemistry</i> , 2020, 92, 2558-2565.	6.5	33
15	Behavioral stochastic resonance: How a noisy army betrays its outpost. <i>Physical Review E</i> , 2001, 63, 031910.	2.1	27
16	Information processing in noisy burster models of sensory neurons. <i>Journal of Theoretical Biology</i> , 2005, 237, 30-40.	1.7	21
17	Temperature-dependent stochastic dynamics of the Huber-Braun neuron model. <i>Chaos</i> , 2011, 21, 047510.	2.5	21
18	On the role of subthreshold currents in the Huber-Braun cold receptor model. <i>Chaos</i> , 2010, 20, 045107.	2.5	20

#	ARTICLE	IF	CITATIONS
19	Noise Induced Order: Stochastic Resonance. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 869-879.	1.7	19
20	ENTROPY AND EXTENDED MEMORY IN DISCRETE CHAOTIC DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 611-625.	1.7	18
21	Reconstructing the realized niche of phytoplankton species from environmental data: fitness versus abundance approach. Limnology and Oceanography: Methods, 2011, 9, 432-442.	2.0	18
22	The role of the auditory periphery in comodulation detection difference and comodulation masking release. Biological Cybernetics, 2007, 97, 397-411.	1.3	17
23	Changes in the phytoplankton community at Helgoland, North Sea: lessons from single spot time series analyses. Marine Biology, 2012, 159, 2561-2571.	1.5	12
24	Density-dependent growth in "catch-and-wait"™ fisheries has implications for fisheries management and Marine Protected Areas. Ambio, 2020, 49, 107-117.	5.5	12
25	Granger-causality maps of diffusion processes. Physical Review E, 2016, 93, 022213.	2.1	11
26	Nonlinear dynamics measures applied to EEG recordings of patients with Attention Deficit/Hyperactivity Disorder: Quantifying the effects of a neurofeedback treatment. , 2012, 2012, 1057-60.		10
27	Field-recorded data on habitat, density, growth and movement of Nephrops norvegicus. Scientific Data, 2019, 6, 7.	5.3	9
28	Scale dependence of temporal biodiversity change in modern and fossil marine plankton. Global Ecology and Biogeography, 2020, 29, 1008-1019.	5.8	9
29	Sleep apnea: Tracking effects of a first session of CPAP therapy by means of Granger causality. Computer Methods and Programs in Biomedicine, 2020, 187, 105235.	4.7	8
30	Entropy Analysis of Noise Contaminated Sequences. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 933-940.	1.7	7
31	SIGNAL DETECTION ENHANCED BY COMODULATED NOISE. Fluctuation and Noise Letters, 2006, 06, L339-L347.	1.5	6
32	How spurious correlations affect a correlation-based measure of spike timing reliability. Neurocomputing, 2012, 81, 97-103.	5.9	5
33	Dissolved organic compounds with synchronous dynamics share chemical properties and origin. Limnology and Oceanography, 2021, 66, 4001-4016.	3.1	5
34	Phase Locking Below Rate Threshold in Noisy Model Neurons. Neural Computation, 2010, 22, 599-620.	2.2	4
35	Fast estimation of motion from selected populations of retinal ganglion cells. Biological Cybernetics, 2011, 104, 53-64.	1.3	4
36	Conditional Granger causality of diffusion processes. European Physical Journal B, 2017, 90, 1.	1.5	4

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37	Finite-sample frequency distributions originating from an equiprobability distribution. Physical Review E, 2002, 66, 026103.	2.1	3
38	Signal detection by means of phase coherence induced through phase resetting. Physical Review E, 2002, 66, 040901.	2.1	3
39	East-west spatial groupings in intertidal communities, environmental drivers and key species. Journal of the Marine Biological Association of the United Kingdom, 2018, 98, 423-435.	0.8	3
40	Weak-winner phase synchronization: A curious case of weak interactions. Physical Review Research, 2021, 3, .	3.6	3
41	The limit entropy for sequences constructed from composites. Chaos, Solitons and Fractals, 1996, 7, 49-60.	5.1	2
42	Transfer entropy to characterize brain-heart topology in sleep apnea patients treated with continuous positive airway pressure. , 2017, , .		2
43	How to decide whether small samples comply with an equidistribution. BioSystems, 2003, 69, 63-72.	2.0	1
44	Enhanced signal detectability in comodulated noise introduced by compression. Biological Cybernetics, 2008, 99, 491-502.	1.3	1
45	Classifying the motion of visual stimuli from the spike response of a population of retinal ganglion cells. , 2008, 2008, 4082-5.		1
46	Dynamical measures for characterization of EEG registers in patients with Attention Deficit Hyperactivity Disorder treated with neurofeedback. , 2012, , .		1
47	Encephalography Connectivity on Sources in Male Nonsmokers after Nicotine Administration during the Resting State. Neuropsychobiology, 2016, 74, 48-59.	1.9	1
48	Residual Predictive Information Flow in the Tight Coupling Limit: Analytic Insights from a Minimalistic Model. Entropy, 2019, 21, 1010.	2.2	1
49	Reply to: Empirical pressure-response relations can benefit assessment of safe operating spaces. Nature Ecology and Evolution, 2021, 5, 1080-1081.	7.8	1
50	Festschrift on the occasion of Ulrike Feudel's 60th birthday. European Physical Journal: Special Topics, 2017, 226, 1695-1701.	2.6	0
51	Granger Causality Analysis based on Neural Networks Architectures for bivariate cases. , 2020, , .		0
52	The interplay of subthreshold currents, spiking activity and noise in a model of a cold receptor. IEICE Proceeding Series, 2014, 1, 363-363.	0.0	0