Kurt Wiesenfeld

List of Publications by Year
in descending order

53	4,525	331538	189801
papers	citations	21 h-index	50 g-index

53	53	53	2804
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low rattling: A predictive principle for self-organization in active collectives. Science, 2021, 371, 90-95.	6.0	44
2	Using Disorder to Overcome Disorder: A Mechanism for Frequency and Phase Synchronization of Diode Laser Arrays. Physical Review Letters, 2021, 127, 173901.	2.9	6
3	Emergent, linked traits of fluctuation feedback systems. Physical Review E, 2021, 104, 064216.	0.8	2
4	Synchronization in disordered superconducting arrays. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 064002.	0.7	4
5	A robot made of robots: Emergent transport and control of a smarticle ensemble. Science Robotics, 2019, 4, .	9.9	53
6	Synchronization behavior in a ternary phase model. Chaos, 2019, 29, 063115.	1.0	5
7	Dynamics of tinnitus and coordinated reset therapy. Physical Review E, 2019, 99, 052403.	0.8	2
8	Dynamics of scattering in undulatory active collisions. Physical Review E, 2019, 99, 022606.	0.8	13
9	Anatomy of Phase Locking in Hyperparametric Oscillations Based on Kerr Nonlinearity. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	10
10	Self-synchronization phenomena in the Lugiato-Lefever equation. Physical Review A, 2017, 96, .	1.0	13
11	Soliton Formation in Whispering-Gallery-Mode Resonators via Input Phase Modulation. IEEE Photonics Journal, 2015, 7, 1-9.	1.0	56
12	Spontaneous synchronization in large pendulum arrays. European Physical Journal: Special Topics, 2014, 223, 687-696.	1.2	5
13	Phase noise of oscillators with unsaturated amplifiers. Physical Review E, 2013, 88, 062922.	0.8	10
14	Huygens (and others) revisited. Chaos, 2011, 21, 047515.	1.0	10
15	Effects of heterogeneity in synaptic conductance between weakly coupled identical neurons. Journal of Computational Neuroscience, 2011, 30, 455-469.	0.6	4
16	Effect of Gain-Dependent Phase Shift on Fiber Laser Synchronization. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 312-319.	1.9	7
17	TOWARDS A UNIFIED RATE THEORY OF STOCHASTIC RESONANCE. Fluctuation and Noise Letters, 2006, 06, L405-L413.	1.0	0
18	Model for high-gain fiber laser arrays. IEEE Journal of Quantum Electronics, 2005, 41, 767-773.	1.0	25

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19	THE FLUX CREEP AUTOMATON. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1155-1175.	0.7	2
20	STOCHASTIC RESONANCE IN HAIR CELL MECHANOELECTRICAL TRANSDUCTION. Fluctuation and Noise Letters, 2004, 04, L1-L10.	1.0	10
21	Huygens's clocks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 563-579.	1.0	368
22	Generalized stability law for Josephson series arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 292, 269-274.	0.9	14
23	Two-dimensional Josephson junction arrays coupled through a high-Q cavity. IEEE Transactions on Applied Superconductivity, 2001, 11, 1184-1187.	1.1	10
24	Wavelets of Excitability in Sensory Neurons. Journal of Neurophysiology, 2001, 86, 2097-2101.	0.9	2
25	Resource Letter: ScL-1: Scaling laws. American Journal of Physics, 2001, 69, 938-942.	0.3	15
26	Nonlinear dynamics in a high-gain amplifier: the dc SQUID. Annalen Der Physik, 2000, 9, 679-688.	0.9	5
27	Synchronization transitions in Josephson arrays: a puzzle and its resolution. Annalen Der Physik, 2000, 9, 689-696.	0.9	5
28	Theory of controlling stochastic resonance. Physical Review E, 2000, 62, 317-327.	0.8	48
29	MANIPULATED SYNCHRONIZATION: BEAM STEERING IN PHASED ARRAYS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2619-2627.	0.7	26
30	Amplitude dropout in coupled lasers. Physical Review A, 2000, 62, .	1.0	8
31	High-Qcavity-induced synchronization in oscillator arrays. Physical Review E, 2000, 61, 2513-2518.	0.8	66
32	Phase locking of Josephson junction arrays achieved by a non-traditional bias scheme. IEEE Transactions on Applied Superconductivity, 1999, 9, 4546-4549.	1.1	0
33	Controlling Stochastic Resonance. Physical Review Letters, 1999, 82, 4574-4577.	2.9	111
34	Mechanoelectrical transduction assisted by Brownian motion: a role for noise in the auditory system. Nature Neuroscience, 1998, 1, 384-388.	7.1	177
35	Renormalization of Self-Organized Critical Models. Annals of the New York Academy of Sciences, 1998, 848, 9-17.	1.8	1
36	Coupled Oscillators for Fun and Profit. Annals of the New York Academy of Sciences, 1998, 848, 134-141.	1.8	0

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37	Frequency locking in Josephson arrays: Connection with the Kuramoto model. Physical Review E, 1998, 57, 1563-1569.	0.8	307
38	Minireview of stochastic resonance. Chaos, 1998, 8, 539-548.	1.0	163
39	Mutual entrainment of two nonlinear oscillators. American Journal of Physics, 1998, 66, 860-866.	0.3	5
40	Effect of cross-type bias in a two-dimensional array of short Josephson junctions. Applied Physics Letters, 1998, 72, 1107-1109.	1.5	9
41	Renormalization of one-dimensional avalanche models. Journal of Statistical Physics, 1997, 86, 1179-1201.	0.5	10
42	Linewidth calculation for bare 2D Josephson arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 373-377.	0.9	10
43	Synchronization Transitions in a Disordered Josephson Series Array. Physical Review Letters, 1996, 76, 404-407.	2.9	529
44	Stochastic resonance and the benefits of noise: from ice ages to crayfish and SQUIDs. Nature, 1995, 373, 33-36.	13.7	1,710
45	Disorder-enhanced synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 206, 54-60.	0.9	77
46	Disorder and synchronization in a Josephson junction plaquette. Applied Physics Letters, 1995, 67, 1935-1937.	1.5	8
47	Magneticâ€field effect in a twoâ€dimensional array of short Josephson junctions. Journal of Applied Physics, 1995, 78, 1878-1883.	1.1	35
48	Dynamics of a globally coupled oscillator array. Physica D: Nonlinear Phenomena, 1991, 48, 102-112.	1.3	110
49	On the comparison between Josephsonâ€junction array variations. Journal of Applied Physics, 1991, 70, 1075-1077.	1.1	10
50	Attractor crowding in Josephson junction arrays. Applied Physics Letters, 1990, 56, 495-496.	1.5	58
51	Attractor crowding in oscillator arrays. Physical Review Letters, 1989, 62, 1335-1338.	2.9	236
52	A physicist's sandbox. Journal of Statistical Physics, 1989, 54, 1441-1458.	0.5	52
53	Phase locking of Josephson junction arrays. Applied Physics Letters, 1988, 52, 1619-1621.	1.5	59