

Kurt Wiesenfeld

List of Publications by Year in descending order

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53
papers

4,525
citations

331670

21
h-index

189892

50
g-index

53
all docs

53
docs citations

53
times ranked

2804
citing authors

#	ARTICLE	IF	CITATIONS
1	Low rattling: A predictive principle for self-organization in active collectives. <i>Science</i> , 2021, 371, 90-95.	12.6	44
2	Using Disorder to Overcome Disorder: A Mechanism for Frequency and Phase Synchronization of Diode Laser Arrays. <i>Physical Review Letters</i> , 2021, 127, 173901.	7.8	6
3	Emergent, linked traits of fluctuation feedback systems. <i>Physical Review E</i> , 2021, 104, 064216.	2.1	2
4	Synchronization in disordered superconducting arrays. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 064002.	2.1	4
5	A robot made of robots: Emergent transport and control of a smarticle ensemble. <i>Science Robotics</i> , 2019, 4, .	17.6	53
6	Synchronization behavior in a ternary phase model. <i>Chaos</i> , 2019, 29, 063115.	2.5	5
7	Dynamics of tinnitus and coordinated reset therapy. <i>Physical Review E</i> , 2019, 99, 052403.	2.1	2
8	Dynamics of scattering in undulatory active collisions. <i>Physical Review E</i> , 2019, 99, 022606.	2.1	13
9	Anatomy of Phase Locking in Hyperparametric Oscillations Based on Kerr Nonlinearity. <i>IEEE Photonics Journal</i> , 2017, 9, 1-11.	2.0	10
10	Self-synchronization phenomena in the Lugiato-Lefever equation. <i>Physical Review A</i> , 2017, 96, .	2.5	13
11	Soliton Formation in Whispering-Gallery-Mode Resonators via Input Phase Modulation. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	2.0	56
12	Spontaneous synchronization in large pendulum arrays. <i>European Physical Journal: Special Topics</i> , 2014, 223, 687-696.	2.6	5
13	Phase noise of oscillators with unsaturated amplifiers. <i>Physical Review E</i> , 2013, 88, 062922.	2.1	10
14	Huygens (and others) revisited. <i>Chaos</i> , 2011, 21, 047515.	2.5	10
15	Effects of heterogeneity in synaptic conductance between weakly coupled identical neurons. <i>Journal of Computational Neuroscience</i> , 2011, 30, 455-469.	1.0	4
16	Effect of Gain-Dependent Phase Shift on Fiber Laser Synchronization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009, 15, 312-319.	2.9	7
17	TOWARDS A UNIFIED RATE THEORY OF STOCHASTIC RESONANCE. <i>Fluctuation and Noise Letters</i> , 2006, 06, L405-L413.	1.5	0
18	Model for high-gain fiber laser arrays. <i>IEEE Journal of Quantum Electronics</i> , 2005, 41, 767-773.	1.9	25

#	ARTICLE	IF	CITATIONS
19	THE FLUX CREEP AUTOMATON. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1155-1175.	1.7	2
20	STOCHASTIC RESONANCE IN HAIR CELL MECHANOELECTRICAL TRANSDUCTION. Fluctuation and Noise Letters, 2004, 04, L1-L10.	1.5	10
21	Huygens's clocks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 563-579.	2.1	368
22	Generalized stability law for Josephson series arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 292, 269-274.	2.1	14
23	Two-dimensional Josephson junction arrays coupled through a high-Q cavity. IEEE Transactions on Applied Superconductivity, 2001, 11, 1184-1187.	1.7	10
24	Wavelets of Excitability in Sensory Neurons. Journal of Neurophysiology, 2001, 86, 2097-2101.	1.8	2
25	Resource Letter: ScL-1: Scaling laws. American Journal of Physics, 2001, 69, 938-942.	0.7	15
26	Nonlinear dynamics in a high-gain amplifier: the dc SQUID. Annalen Der Physik, 2000, 9, 679-688.	2.4	5
27	Synchronization transitions in Josephson arrays: a puzzle and its resolution. Annalen Der Physik, 2000, 9, 689-696.	2.4	5
28	Theory of controlling stochastic resonance. Physical Review E, 2000, 62, 317-327.	2.1	48
29	MANIPULATED SYNCHRONIZATION: BEAM STEERING IN PHASED ARRAYS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2619-2627.	1.7	26
30	Amplitude dropout in coupled lasers. Physical Review A, 2000, 62, .	2.5	8
31	High-Qcavity-induced synchronization in oscillator arrays. Physical Review E, 2000, 61, 2513-2518.	2.1	66
32	Phase locking of Josephson junction arrays achieved by a non-traditional bias scheme. IEEE Transactions on Applied Superconductivity, 1999, 9, 4546-4549.	1.7	0
33	Controlling Stochastic Resonance. Physical Review Letters, 1999, 82, 4574-4577.	7.8	111
34	Mechanoelectrical transduction assisted by Brownian motion: a role for noise in the auditory system. Nature Neuroscience, 1998, 1, 384-388.	14.8	177
35	Renormalization of Self-Organized Critical Models. Annals of the New York Academy of Sciences, 1998, 848, 9-17.	3.8	1
36	Coupled Oscillators for Fun and Profit. Annals of the New York Academy of Sciences, 1998, 848, 134-141.	3.8	0

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37	Frequency locking in Josephson arrays: Connection with the Kuramoto model. <i>Physical Review E</i> , 1998, 57, 1563-1569.	2.1	307
38	Minireview of stochastic resonance. <i>Chaos</i> , 1998, 8, 539-548.	2.5	163
39	Mutual entrainment of two nonlinear oscillators. <i>American Journal of Physics</i> , 1998, 66, 860-866.	0.7	5
40	Effect of cross-type bias in a two-dimensional array of short Josephson junctions. <i>Applied Physics Letters</i> , 1998, 72, 1107-1109.	3.3	9
41	Renormalization of one-dimensional avalanche models. <i>Journal of Statistical Physics</i> , 1997, 86, 1179-1201.	1.2	10
42	Linewidth calculation for bare 2D Josephson arrays. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 233, 373-377.	2.1	10
43	Synchronization Transitions in a Disordered Josephson Series Array. <i>Physical Review Letters</i> , 1996, 76, 404-407.	7.8	529
44	Stochastic resonance and the benefits of noise: from ice ages to crayfish and SQUIDs. <i>Nature</i> , 1995, 373, 33-36.	27.8	1,710
45	Disorder-enhanced synchronization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 206, 54-60.	2.1	77
46	Disorder and synchronization in a Josephson junction plaquette. <i>Applied Physics Letters</i> , 1995, 67, 1935-1937.	3.3	8
47	Magnetic field effect in a two-dimensional array of short Josephson junctions. <i>Journal of Applied Physics</i> , 1995, 78, 1878-1883.	2.5	35
48	Dynamics of a globally coupled oscillator array. <i>Physica D: Nonlinear Phenomena</i> , 1991, 48, 102-112.	2.8	110
49	On the comparison between Josephson junction array variations. <i>Journal of Applied Physics</i> , 1991, 70, 1075-1077.	2.5	10
50	Attractor crowding in Josephson junction arrays. <i>Applied Physics Letters</i> , 1990, 56, 495-496.	3.3	58
51	Attractor crowding in oscillator arrays. <i>Physical Review Letters</i> , 1989, 62, 1335-1338.	7.8	236
52	A physicist's sandbox. <i>Journal of Statistical Physics</i> , 1989, 54, 1441-1458.	1.2	52
53	Phase locking of Josephson junction arrays. <i>Applied Physics Letters</i> , 1988, 52, 1619-1621.	3.3	59