

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	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
2	Synchronization Transitions in a Disordered Josephson Series Array. <i>Physical Review Letters</i> , 1996, 76, 404-407.	7.8	529
3	Huygens's clocks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002, 458, 563-579.	2.1	368
4	Frequency locking in Josephson arrays: Connection with the Kuramoto model. <i>Physical Review E</i> , 1998, 57, 1563-1569.	2.1	307
5	Attractor crowding in oscillator arrays. <i>Physical Review Letters</i> , 1989, 62, 1335-1338.	7.8	236
6	Mechanoelectrical transduction assisted by Brownian motion: a role for noise in the auditory system. <i>Nature Neuroscience</i> , 1998, 1, 384-388.	14.8	177
7	Minireview of stochastic resonance. <i>Chaos</i> , 1998, 8, 539-548.	2.5	163
8	Controlling Stochastic Resonance. <i>Physical Review Letters</i> , 1999, 82, 4574-4577.	7.8	111
9	Dynamics of a globally coupled oscillator array. <i>Physica D: Nonlinear Phenomena</i> , 1991, 48, 102-112.	2.8	110
10	Disorder-enhanced synchronization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 206, 54-60.	2.1	77
11	High-Qcavity-induced synchronization in oscillator arrays. <i>Physical Review E</i> , 2000, 61, 2513-2518.	2.1	66
12	Phase locking of Josephson junction arrays. <i>Applied Physics Letters</i> , 1988, 52, 1619-1621.	3.3	59
13	Attractor crowding in Josephson junction arrays. <i>Applied Physics Letters</i> , 1990, 56, 495-496.	3.3	58
14	Soliton Formation in Whispering-Gallery-Mode Resonators via Input Phase Modulation. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	2.0	56
15	A robot made of robots: Emergent transport and control of a smarticle ensemble. <i>Science Robotics</i> , 2019, 4, .	17.6	53
16	A physicist's sandbox. <i>Journal of Statistical Physics</i> , 1989, 54, 1441-1458.	1.2	52
17	Theory of controlling stochastic resonance. <i>Physical Review E</i> , 2000, 62, 317-327.	2.1	48
18	Low rattling: A predictive principle for self-organization in active collectives. <i>Science</i> , 2021, 371, 90-95.	12.6	44

#	ARTICLE	IF	CITATIONS
19	Magnetic field effect in a two-dimensional array of short Josephson junctions. Journal of Applied Physics, 1995, 78, 1878-1883.	2.5	35
20	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
21	Model for high-gain fiber laser arrays. IEEE Journal of Quantum Electronics, 2005, 41, 767-773.	1.9	25
22	Resource Letter: ScL-1: Scaling laws. American Journal of Physics, 2001, 69, 938-942.	0.7	15
23	Generalized stability law for Josephson series arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 292, 269-274.	2.1	14
24	Self-synchronization phenomena in the Lugiato-Lefever equation. Physical Review A, 2017, 96, .	2.5	13
25	Dynamics of scattering in undulatory active collisions. Physical Review E, 2019, 99, 022606.	2.1	13
26	On the comparison between Josephson junction array variations. Journal of Applied Physics, 1991, 70, 1075-1077.	2.5	10
27	Renormalization of one-dimensional avalanche models. Journal of Statistical Physics, 1997, 86, 1179-1201.	1.2	10
28	Linewidth calculation for bare 2D Josephson arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 373-377.	2.1	10
29	Two-dimensional Josephson junction arrays coupled through a high-Q cavity. IEEE Transactions on Applied Superconductivity, 2001, 11, 1184-1187.	1.7	10
30	STOCHASTIC RESONANCE IN HAIR CELL MECHANOELECTRICAL TRANSDUCTION. Fluctuation and Noise Letters, 2004, 04, L1-L10.	1.5	10
31	Huygens (and others) revisited. Chaos, 2011, 21, 047515.	2.5	10
32	Phase noise of oscillators with unsaturated amplifiers. Physical Review E, 2013, 88, 062922.	2.1	10
33	Anatomy of Phase Locking in Hyperparametric Oscillations Based on Kerr Nonlinearity. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	10
34	Effect of cross-type bias in a two-dimensional array of short Josephson junctions. Applied Physics Letters, 1998, 72, 1107-1109.	3.3	9
35	Disorder and synchronization in a Josephson junction plaquette. Applied Physics Letters, 1995, 67, 1935-1937.	3.3	8
36	Amplitude dropout in coupled lasers. Physical Review A, 2000, 62, .	2.5	8

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37	Effect of Gain-Dependent Phase Shift on Fiber Laser Synchronization. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 312-319.	2.9	7
38	Using Disorder to Overcome Disorder: A Mechanism for Frequency and Phase Synchronization of Diode Laser Arrays. Physical Review Letters, 2021, 127, 173901.	7.8	6
39	Mutual entrainment of two nonlinear oscillators. American Journal of Physics, 1998, 66, 860-866.	0.7	5
40	Nonlinear dynamics in a high-gain amplifier: the dc SQUID. Annalen Der Physik, 2000, 9, 679-688.	2.4	5
41	Synchronization transitions in Josephson arrays: a puzzle and its resolution. Annalen Der Physik, 2000, 9, 689-696.	2.4	5
42	Spontaneous synchronization in large pendulum arrays. European Physical Journal: Special Topics, 2014, 223, 687-696.	2.6	5
43	Synchronization behavior in a ternary phase model. Chaos, 2019, 29, 063115.	2.5	5
44	Effects of heterogeneity in synaptic conductance between weakly coupled identical neurons. Journal of Computational Neuroscience, 2011, 30, 455-469.	1.0	4
45	Synchronization in disordered superconducting arrays. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 064002.	2.1	4
46	Wavelets of Excitability in Sensory Neurons. Journal of Neurophysiology, 2001, 86, 2097-2101.	1.8	2
47	THE FLUX CREEP AUTOMATON. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1155-1175.	1.7	2
48	Dynamics of tinnitus and coordinated reset therapy. Physical Review E, 2019, 99, 052403.	2.1	2
49	Emergent, linked traits of fluctuation feedback systems. Physical Review E, 2021, 104, 064216.	2.1	2
50	Renormalization of Self-Organized Critical Models. Annals of the New York Academy of Sciences, 1998, 848, 9-17.	3.8	1
51	Coupled Oscillators for Fun and Profit. Annals of the New York Academy of Sciences, 1998, 848, 134-141.	3.8	0
52	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
53	TOWARDS A UNIFIED RATE THEORY OF STOCHASTIC RESONANCE. Fluctuation and Noise Letters, 2006, 06, L405-L413.	1.5	0