

# Paul Kolodner

## List of Publications by Year in descending order

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64  
papers

3,558  
citations

136740

32  
h-index

128067

60  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1531  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of evaporating mist flow for enhanced convective heat transfer. International Journal of Heat and Mass Transfer, 2010, 53, 3346-3356.	2.5	61
2	Droplet mixing using electrically tunable superhydrophobic nanostructured surfaces. Microfluidics and Nanofluidics, 2009, 7, 137-140.	1.0	21
3	Numerical Analysis of Mist-Cooled High Power Components in Cabinets. , 2009, , .		4
4	Reversible Wetting and Dewetting Transitions on Electrically Tunable Superhydrophobic Nanostructured Surfaces. Langmuir, 2007, 23, 9128-9133.	1.6	251
5	Electrically tunable superhydrophobic nanostructured surfaces. Bell Labs Technical Journal, 2005, 10, 161-170.	0.7	32
6	Electric-field effects in dry films of D85N and D85,96N mutant bacteriorhodopsin. Bioelectrochemistry, 2000, 51, 67-73.	2.4	2
7	Spatial-feedback control of dispersive chaos in binary-fluid convection. Physical Review E, 2000, 61, 2519-2532.	0.8	10
8	Controlling Dispersive Chaos in Binary-Fluid Convection. Physical Review Letters, 1999, 83, 730-733.	2.9	18
9	Electric-Field Effects in 13-Demethyl-11,14-Epoxyretinal-Bacteriorhodopsin Films. Photochemistry and Photobiology, 1999, 70, 103-110.	1.3	3
10	Amplitude Equations from Spatiotemporal Binary-Fluid Convection Data. Physical Review Letters, 1999, 83, 3422-3425.	2.9	83
11	Oscillatory convection in viscoelastic DNA suspensions. Journal of Non-Newtonian Fluid Mechanics, 1998, 75, 167-192.	1.0	86
12	Electric-field and photochemical effects in D85N mutant bacteriorhodopsin substituted with 4-keto-retinal. Thin Solid Films, 1997, 302, 231-234.	0.8	7
13	Convective fingering of an autocatalytic reaction front. Physical Review E, 1996, 53, 6012-6015.	0.8	52
14	Characterization of dispersive chaos and related states of binary-fluid convection. Physica D: Nonlinear Phenomena, 1995, 85, 165-224.	1.3	63
15	Stable, unstable, and defected confined states of traveling-wave convection. Physical Review E, 1994, 50, 2731-2755.	0.8	47
16	Onset of convection for autocatalytic reaction fronts in a vertical slab. Physical Review E, 1993, 48, 4378-4386.	0.8	36
17	Repeated transients of weakly nonlinear traveling-wave convection. Physical Review E, 1993, 47, 1038-1048.	0.8	28
18	Arbitrary-width confined states of traveling-wave convection: Pinning, locking, drift, and stability. Physical Review E, 1993, 48, R4187-R4190.	0.8	13

#	ARTICLE	IF	CITATIONS
19	Coexisting traveling waves and steady rolls in binary-fluid convection. <i>Physical Review E</i> , 1993, 48, R665-R668.	0.8	35
20	Extended states of nonlinear traveling-wave convection. II. Fronts and spatiotemporal defects. <i>Physical Review A</i> , 1992, 46, 6452-6468.	1.0	41
21	Extended states of nonlinear traveling-wave convection. I. The Eckhaus instability. <i>Physical Review A</i> , 1992, 46, 6431-6451.	1.0	47
22	Observations of the Eckhaus instability in one-dimensional traveling-wave convection. <i>Physical Review A</i> , 1992, 46, R1739-R1742.	1.0	30
23	Counterpropagating quasilinear wave packets in binary-fluid convection. <i>Physical Review Letters</i> , 1992, 69, 2519-2522.	2.9	29
24	Measurements of the concentration field in nonlinear travelling-wave convection. <i>Journal of Fluid Mechanics</i> , 1992, 240, 31.	1.4	45
25	Pinning and long-time-scale behavior in traveling-wave convection. <i>Journal of Statistical Physics</i> , 1991, 64, 903-912.	0.5	8
26	Dispersive chaos. <i>Journal of Statistical Physics</i> , 1991, 64, 945-960.	0.5	33
27	Drift, shape, and intrinsic destabilization of pulses of traveling-wave convection. <i>Physical Review A</i> , 1991, 44, 6448-6465.	1.0	86
28	Drifting pulses of traveling-wave convection. <i>Physical Review Letters</i> , 1991, 66, 1165-1168.	2.9	53
29	Collisions between pulses of traveling-wave convection. <i>Physical Review A</i> , 1991, 44, 6466-6479.	1.0	100
30	Confined states of traveling-wave convection. <i>Physical Review A</i> , 1991, 43, 7101-7104.	1.0	27
31	Interactions of nonlinear pulses in convection in binary fluids. <i>Physical Review A</i> , 1991, 43, 4269-4280.	1.0	30
32	Stable and unstable pulses of traveling-wave convection. <i>Physical Review A</i> , 1991, 43, 2827-2832.	1.0	20
33	Concentration field in traveling-wave and stationary convection in fluid mixtures. <i>Physical Review A</i> , 1991, 43, 7105-7108.	1.0	28
34	Weakly nonlinear states as propagating fronts in convecting binary mixtures. <i>Physical Review A</i> , 1990, 41, 5743-5746.	1.0	12
35	Effect of confined states of traveling-wave convection on the lateral concentration profile. <i>Physical Review A</i> , 1990, 42, 7204-7210.	1.0	4
36	Transition from traveling-wave to stationary convection in fluid mixtures. <i>Physical Review Letters</i> , 1990, 65, 1431-1434.	2.9	48

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37	Neutrally stable fronts of slow convective traveling waves. <i>Physical Review A</i> , 1990, 42, 2475-2478.	1.0	16
38	Dispersive chaos in one-dimensional traveling-wave convection. <i>Physical Review Letters</i> , 1990, 65, 1579-1582.	2.9	77
39	Interaction of localized pulses of traveling-wave convection with propagating disturbances. <i>Physical Review A</i> , 1990, 42, 7504-7506.	1.0	24
40	Competing and coexisting dynamical states of travelling-wave convection in an annulus. <i>Journal of Fluid Mechanics</i> , 1990, 217, 441-467.	1.4	89
41	Complex Demodulation Techniques for Experiments on Traveling-Wave Convection. <i>NATO ASI Series Series B: Physics</i> , 1990, , 73-91.	0.2	4
42	Comment on "Spatially and temporally modulated traveling-wave pattern in convecting binary mixtures". <i>Physical Review Letters</i> , 1989, 63, 578-578.	2.9	3
43	Dynamics of traveling waves near the onset of convection in binary fluid mixtures. <i>Physica D: Nonlinear Phenomena</i> , 1989, 37, 319-333.	1.3	81
44	Traveling-wave convection in an annulus. <i>Physical Review Letters</i> , 1988, 60, 1723-1726.	2.9	227
45	Optical measurement of the Soret coefficient of ethanol/water solutions. <i>Journal of Chemical Physics</i> , 1988, 88, 6512-6524.	1.2	271
46	Weakly Nonlinear Traveling-Wave Convection. <i>Physical Review Letters</i> , 1988, 61, 842-845.	2.9	80
47	Oscillatory Traveling-Wave Convection in a Finite Container. <i>Physical Review Letters</i> , 1987, 58, 2055-2058.	2.9	49
48	Pulses of oscillatory convection. <i>Physical Review A</i> , 1987, 36, 2499-2502.	1.0	21
49	Heat transport by parallel-roll convection in a rectangular container. <i>Journal of Fluid Mechanics</i> , 1987, 185, 205-234.	1.4	11
50	The transition to finite-amplitude traveling-wave convection in binary fluid mixtures. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1987, 2, 97-108.	0.5	14
51	Onset of Oscillatory Convection in a Binary Fluid Mixture. <i>Physical Review Letters</i> , 1986, 56, 2621-2624.	2.9	112
52	Rayleigh-Bénard convection in an intermediate-aspect-ratio rectangular container. <i>Journal of Fluid Mechanics</i> , 1986, 163, 195-226.	1.4	71
53	Finite-amplitude traveling-wave convection in binary fluid mixtures. <i>Physica D: Nonlinear Phenomena</i> , 1986, 23, 220-229.	1.3	23
54	"Video lock" in amplifier: Phase-sensitive detection of digital image sequences. <i>Review of Scientific Instruments</i> , 1985, 56, 1657-1661.	0.6	0

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55	Traveling waves and chaos in convection in binary fluid mixtures. Physical Review Letters, 1985, 55, 496-499.	2.9	227
56	Nonchaotic Rayleigh-Bénard Convection with Four and Five Incommensurate Frequencies. Physical Review Letters, 1984, 53, 242-245.	2.9	54
57	Noncontact surface temperature measurement during reactive-ion etching using fluorescent polymer films. Applied Physics Letters, 1983, 42, 749-751.	1.5	29
58	Remote thermal imaging with 0.7- $\mu\text{m}$ spatial resolution using temperature-dependent fluorescent thin films. Applied Physics Letters, 1983, 42, 117-119.	1.5	98
59	Microscopic fluorescent imaging of surface temperature profiles with 0.01- $\mu\text{C}$ resolution. Applied Physics Letters, 1982, 40, 782-784.	1.5	138
60	Nonrandom Suprathermal Electron Emission in Resonance Absorption. Physical Review Letters, 1980, 45, 1790-1794.	2.9	1
61	Collisionless multiphoton energy deposition and dissociation of SF <sub>6</sub> . Physical Review A, 1979, 19, 704-716.	1.0	123
62	Two-Dimensional Distribution of Self-Generated Magnetic Fields near the Laser-Plasma Resonant-Interaction Region. Physical Review Letters, 1979, 43, 1402-1403.	2.9	55
63	Molecular dissociation of SF <sub>6</sub> by ultra-short CO <sub>2</sub> laser pulses. Optics Communications, 1977, 20, 119-122.	1.0	136
64	Proof of the Resonant Acceleration Mechanism for Fast Electrons in Gaseous Laser Targets. Physical Review Letters, 1976, 37, 1754-1757.	2.9	31