Kazumasa A Takeuchi

List of Publications by Year
in descending order

34 papers	1,719 citations	394421 19 h-index	377865 34 g-index
36 all docs	36 docs citations	36 times ranked	829 citing authors

#	Article	IF	Citations
1	Universal Fluctuations of Growing Interfaces: Evidence in Turbulent Liquid Crystals. Physical Review Letters, 2010, 104, 230601.	7.8	262
2	Growing interfaces uncover universal fluctuations behind scale invariance. Scientific Reports, 2011, 1, 34.	3.3	214
3	Directed Percolation Criticality in Turbulent Liquid Crystals. Physical Review Letters, 2007, 99, 234503.	7.8	209
4	A KPZ Cocktail-Shaken, not Stirred.... Journal of Statistical Physics, 2015, 160, 794-814.	1.2	166
5	Evidence for Geometry-Dependent Universal Fluctuations of the Kardar-Parisi-Zhang Interfaces in Liquid-Crystal Turbulence. Journal of Statistical Physics, 2012, 147, 853-890.	1.2	146
6	An appetizer to modern developments on the Kardarâ€"Parisiâ€"Zhang universality class. Physica A: Statistical Mechanics and Its Applications, 2018, 504, 77-105.	2.6	100
7	Experimental realization of directed percolation criticality in turbulent liquid crystals. Physical Review E, 2009, 80, 051116.	2.1	84
8	Hyperbolicity and the Effective Dimension of Spatially Extended Dissipative Systems. Physical Review Letters, 2009, 102, 074102.	7.8	67
9	Crossover from Growing to Stationary Interfaces in the Kardar-Parisi-Zhang Class. Physical Review Letters, 2013, 110, 210604.	7.8	51
10	Hyperbolic decoupling of tangent space and effective dimension of dissipative systems. Physical Review E, 2011, 84, 046214.	2.1	38
11	Lyapunov Analysis Captures the Collective Dynamics of Large Chaotic Systems. Physical Review Letters, 2009, 103, 154103.	7.8	37
12	Experimental approaches to universal out-of-equilibrium scaling laws: turbulent liquid crystal and other developments. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P01006.	2.3	36
13	Statistics of circular interface fluctuations in an off-lattice Eden model. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P05007.	2.3	35
14	Extensive and Subextensive Chaos in Globally Coupled Dynamical Systems. Physical Review Letters, 2011, 107, 124101.	7.8	33
15	Memory and Universality in Interface Growth. Physical Review Letters, 2017, 118, 125701.	7.8	31
16	Chaos in the Hamiltonian mean-field model. Physical Review E, 2011, 84, 066211.	2.1	26
17	Interface fluctuations for deposition on enlarging flat substrates. New Journal of Physics, 2014, 16, 123057.	2.9	25
18	Collective Lyapunov modes. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 254007.	2.1	23

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19	Estimating the Dimension of an Inertial Manifold from Unstable Periodic Orbits. Physical Review Letters, 2016, 117, 024101.	7.8	23
20	Kardar-Parisi-Zhang Interfaces with Inward Growth. Physical Review Letters, 2017, 119, 030602.	7.8	19
21	Characteristic Sign Renewals of Kardar–Parisi–Zhang Fluctuations. Journal of Statistical Physics, 2016, 164, 1167-1182.	1.2	11
22	Scaling of hysteresis loops at phase transitions into a quasiabsorbing state. Physical Review E, 2008, 77, 030103.	2.1	10
23	Kardar-Parisi-Zhang Interfaces with Curved Initial Shapes and Variational Formula. Physical Review Letters, 2020, 124, 060601.	7.8	10
24	$1/f^{\alpha}$ power spectrum in the Kardar–Parisi–Zhang universality class. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 264006.	2.1	9
25	When fast and slow interfaces grow together: Connection to the half-space problem of the Kardar-Parisi-Zhang class. Physical Review E, 2018, 97, 040103.	2.1	9
26	Direct Evidence for Universal Statistics of Stationary Kardar-Parisi-Zhang Interfaces. Physical Review Letters, 2020, 124, 250602.	7.8	6
27	Phase-ordering kinetics in the Allen-Cahn (Model A) class: Universal aspects elucidated by electrically induced transition in liquid crystals. Physical Review E, 2021, 104, 054103.	2.1	6
28	Scale invariance of cell size fluctuations in starving bacteria. Communications Physics, 2021, 4, .	5.3	6
29	Can the Ising critical behaviour survive in non-equilibrium synchronous cellular automata?. Physica D: Nonlinear Phenomena, 2006, 223, 146-150.	2.8	5
30	Lane formation and critical coarsening in a model of bacterial competition. Physical Review E, 2019, 99, 042403.	2.1	5
31	Role of unstable periodic orbits in phase transitions of coupled map lattices. Physical Review E, 2007, 75, 036201.	2.1	3
32	Measuring Lyapunov exponents of large chaotic systems with global coupling by time series analysis. Chaos, 2018, 28, 121103.	2.5	3
33	Initial perturbation matters: Implications of geometry-dependent universal Kardar–Parisi–Zhang statistics for spatiotemporal chaos. Chaos, 2021, 31, 111103.	2.5	1
34	Active colloid with externally induced periodic bipolar motility and its cooperative motion. Soft Matter, 0, , .	2.7	1