Pavel Krapivsky

List of Publications by Citations

278 papers	**8,344** citations	**46** h-index	**81** g-index
282 ext. papers	**9,186** ext. citations	**2.9** avg, IF	**6.34** L-index

#	Paper	IF	Citations
278	Connectivity of growing random networks. *Physical Review Letters*, **2000**, 85, 4629-32	7.4	779
277	Organization of growing random networks. *Physical Review E*, **2001**, 63, 066123	2.4	536
276	Dynamics of majority rule in two-state interacting spin systems. *Physical Review Letters*, **2003**, 90, 238701	7.4	322
275	Degree distributions of growing networks. *Physical Review Letters*, **2001**, 86, 5401-4	7.4	186
274	Kinetics of clustering in traffic flows. *Physical Review E*, **1994**, 50, 822-829	2.4	176
273	Dynamics of social balance on networks. *Physical Review E*, **2005**, 72, 036121	2.4	168
272	Kinetics of monomer-monomer surface catalytic reactions. *Physical Review A*, **1992**, 45, 1067-1072	2.6	161
271	Social balance on networks: The dynamics of friendship and enmity. *Physica D: Nonlinear Phenomena*, **2006**, 224, 130-136	3.3	157
270	Bifurcations and patterns in compromise processes. *Physica D: Nonlinear Phenomena*, **2003**, 183, 190-204	3.3	157
269	Exact results for kinetics of catalytic reactions. *Physical Review E*, **1996**, 53, R3009-R3012	2.4	137
268	Infinite-order percolation and giant fluctuations in a protein interaction network. *Physical Review E*, **2002**, 66, 055101	2.4	127
267	Coarsening and persistence in the voter model. *Physical Review E*, **1996**, 53, 3078-3087	2.4	122
266	Duplication-divergence model of protein interaction network. *Physical Review E*, **2005**, 71, 061911	2.4	121
265	Spatial organization in cyclic Lotka-Volterra systems. *Physical Review E*, **1996**, 54, 6186-6200	2.4	112
264	Multiscaling in inelastic collisions. *Physical Review E*, **2000**, 61, R5-8	2.4	109
263	Network growth by copying. *Physical Review E*, **2005**, 71, 036118	2.4	105
262	Fate of zero-temperature Ising ferromagnets. *Physical Review E*, **2001**, 63, 036118	2.4	102

261	Freezing in Ising ferromagnets. *Physical Review E*, **2002**, 65, 016119	2.4	101
260	Constrained opinion dynamics: freezing and slow evolution. *Journal of Physics A*, **2003**, 36, L61-L68		97
259	Stochastic theory of early viral infection: continuous versus burst production of virions. *PLoS Computational Biology*, **2011**, 7, e1001058	5	92
258	Finiteness and fluctuations in growing networks. *Journal of Physics A*, **2002**, 35, 9517-9534		82
257	Transitional aggregation kinetics in dry and damp environments. *Physical Review E*, **1996**, 54, 3553-3561	2.4	79
256	Collective properties of adsorption–desorption processes. *Journal of Chemical Physics*, **1994**, 100, 6778-6782	3.2	79
255	Size distribution of particles in Saturn's rings from aggregation and fragmentation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 9536-41	11.5	78
254	Segregation in a One-Dimensional Model of Interacting Species. *Physical Review Letters*, **1996**, 77, 2125-2128	7.4	78
253	Survival of an evasive prey. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 13696-701	11.5	77
252	Capture of the lamb: Diffusing predators seeking a diffusing prey. *American Journal of Physics*, **1999**, 67, 1277-1283	0.7	75
251	Nonuniversality and breakdown of scaling in two-species aggregation with annihilation. *Physica A: Statistical Mechanics and Its Applications*, **1993**, 198, 135-149	3.3	71
250	Large deviations in single-file diffusion. *Physical Review Letters*, **2014**, 113, 078101	7.4	70
249	Kinetics of a diffusive capture process: lamb besieged by a pride of lions. *Journal of Physics A*, **1996**, 29, 5347-5357		66
248	Nonscaling and source-induced scaling behaviour in aggregation model of movable monomers and immovable clusters. *Journal of Physics A*, **1991**, 24, 4789-4803		62
247	Scaling and multiscaling in models of fragmentation. *Physical Review E*, **1994**, 50, 3502-3507	2.4	61
246	Freezing into stripe states in two-dimensional ferromagnets and crossing probabilities in critical percolation. *Physical Review E*, **2009**, 80, 040101	2.4	60
245	Unity and discord in opinion dynamics. *Physica A: Statistical Mechanics and Its Applications*, **2003**, 330, 99-106	3.3	55
244	Kinetics of heterogeneous single-species annihilation. *Physical Review E*, **1994**, 50, 2474-2481	2.4	55

| 243 | Kinetics of random sequential parking on a line. *Journal of Statistical Physics*, **1992**, 69, 135-150 | 1.5 | 54 |

| 242 | Logarithmic current fluctuations in nonequilibrium quantum spin chains. *Physical Review E*, **2008**, 78, 061115 | 2.4 | 53 |

| 241 | Fixation in a cyclic Lotka - Volterra model. *Journal of Physics A*, **1998**, 31, L287-L293 | | 52 |

| 240 | Extreme value statistics and traveling fronts: various applications. *Physica A: Statistical Mechanics and Its Applications*, **2003**, 318, 161-170 | 3.3 | 51 |

| 239 | Scaling, multiscaling, and nontrivial exponents in inelastic collision processes. *Physical Review E*, **2002**, 66, 011309 | 2.4 | 51 |

| 238 | Exchange-driven growth. *Physical Review E*, **2003**, 68, 031104 | 2.4 | 48 |

| 237 | Fluctuations of current in nonstationary diffusive lattice gases. *Physical Review E*, **2012**, 86, 031106 | 2.4 | 47 |

| 236 | Domain statistics in coarsening systems. *Physical Review E*, **1997**, 56, 3788-3798 | 2.4 | 47 |

| 235 | Traveling waves, front selection, and exact nontrivial exponents in a random fragmentation problem. *Physical Review Letters*, **2000**, 85, 5492-5 | 7.4 | 47 |

| 234 | Life and death in an expanding cage and at the edge of a receding cliff. *American Journal of Physics*, **1996**, 64, 546-552 | 0.7 | 47 |

| 233 | Reinforcement-driven spread of innovations and fads. *Journal of Statistical Mechanics: Theory and Experiment*, **2011**, 2011, P12003 | 1.9 | 46 |

| 232 | Dynamics of an idealized model of microtubule growth and catastrophe. *Physical Review E*, **2007**, 76, 041907 | 2.4 | 44 |

| 231 | Kinetics of aggregation-annihilation processes. *Physical Review E*, **1995**, 52, 6066-6070 | 2.4 | 44 |

| 230 | Fractal formation and ordering in random sequential adsorption. *Physical Review Letters*, **1996**, 76, 4058-4061 | 7.4 | 43 |

| 229 | Size of outbreaks near the epidemic threshold. *Physical Review E*, **2004**, 69, 050901 | 2.4 | 42 |

| 228 | Statistics of changes in lead node in connectivity-driven networks. *Physical Review Letters*, **2002**, 89, 258703 | 7.4 | 42 |

| 227 | Weight-driven growing networks. *Physical Review E*, **2005**, 71, 026103 | 2.4 | 40 |

| 226 | Influence of island diffusion on submonolayer epitaxial growth. *Physical Review B*, **1999**, 59, 15950-15958 | 3.3 | 40 |

225	Diffusion-limited annihilation with initially separated reactants. *Physical Review E*, **1995**, 51, 4774-4777	2.4	39
224	Fate of 2D kinetic ferromagnets and critical percolation crossing probabilities. *Physical Review Letters*, **2012**, 109, 195702	7.4	38
223	Kinetic theory of random graphs: from paths to cycles. *Physical Review E*, **2005**, 71, 026129	2.4	38
222	Kinetics of A+B-->0 with driven diffusive motion. *Physical Review E*, **1995**, 52, 2540-2545	2.4	38
221	Aggregation with multiple conservation laws. *Physical Review E*, **1996**, 53, 291-298	2.4	37
220	Nontrivial velocity distributions in inelastic gases. *Journal of Physics A*, **2002**, 35, L147-L152		36
219	Dynamics of the spin-12 Heisenberg chain initialized in a domain-wall state. *Physical Review B*, **2017**, 96,	3.3	35
218	Nucleation and growth in one dimension. *Physical Review E*, **1996**, 54, 3562-3568	2.4	35
217	On irreversible deposition on disordered substrates. *Journal of Physics A*, **1994**, 27, 3575-3577		35
216	Exact solution of a two-type branching process: models of tumor progression. *Journal of Statistical Mechanics: Theory and Experiment*, **2011**, 2011, P08018	1.9	34
215	Cliques and duplication divergence network growth. *New Journal of Physics*, **2005**, 7, 145-145	2.9	34
214	Extreme value statistics and traveling fronts: application to computer science. *Physical Review E*, **2002**, 65, 036127	2.4	34
213	Extremal paths on a random cayley tree. *Physical Review E*, **2000**, 62, 7735-42	2.4	33
212	Correlations in ballistic processes. *Physical Review Letters*, **2003**, 91, 218302	7.4	32
211	Ballistic annihilation kinetics: The case of discrete velocity distributions. *Physical Review E*, **1995**, 51, 3977-3987	2.4	32
210	Survival of Classical and Quantum Particles in the Presence of Traps. *Journal of Statistical Physics*, **2014**, 154, 1430-1460	1.5	31
209	Stationary velocity distributions in traffic flows. *Physical Review E*, **1997**, 56, 6680-6686	2.4	30
208	Zero-temperature freezing in the three-dimensional kinetic Ising model. *Physical Review E*, **2011**, 83, 030104	2.4	29

207	Universal properties of growing networks. *Physica A: Statistical Mechanics and Its Applications*, **2004**, 340, 714-724	3.3	29
206	Extremal properties of random trees. *Physical Review E*, **2001**, 64, 035101	2.4	29
205	Facilitated asymmetric exclusion. *Physical Review Letters*, **2010**, 105, 210603	7.4	28
204	Zero-temperature relaxation of three-dimensional Ising ferromagnets. *Physical Review E*, **2011**, 83, 051104	2.4	27
203	A model of ballistic aggregation and fragmentation. *Journal of Statistical Mechanics: Theory and Experiment*, **2009**, 2009, P06011	1.9	27
202	Molecular spiders with memory. *Physical Review E*, **2007**, 76, 021121	2.4	27
201	"Burnt-bridge" mechanism of molecular motor motion. *Physical Review E*, **2005**, 72, 046104	2.4	27
200	Ballistic annihilation with continuous isotropic initial velocity distribution. *Physical Review Letters*, **2001**, 86, 2494-7	7.4	27
199	Aggregation-annihilation processes with injection. *Physica A: Statistical Mechanics and Its Applications*, **1993**, 198, 157-178	3.3	26
198	Structural Transitions in Densifying Networks. *Physical Review Letters*, **2016**, 117, 218301	7.4	25
197	Shattering transitions in collision-induced fragmentation. *Physical Review E*, **2003**, 68, 021102	2.4	25
196	Scale invariance and lack of self-averaging in fragmentation. *Physical Review E*, **2000**, 61, R993-6	2.4	25
195	Analytical results for the distribution of shortest path lengths in random networks. *Europhysics Letters*, **2015**, 111, 26006	1.6	24
194	Random walk with shrinking steps. *American Journal of Physics*, **2004**, 72, 591-598	0.7	24
193	Nucleation and growth in systems with many stable phases. *Physical Review A*, **1992**, 45, 2263-2269	2.6	24
192	Oscillations in Aggregation-Shattering Processes. *Physical Review Letters*, **2017**, 119, 260601	7.4	23
191	Maxwell model of traffic flows. *Physical Review E*, **1999**, 59, 88-97	2.4	23
190	Heterogeneous catalysis on a disordered surface. *Physical Review Letters*, **1995**, 75, 2891-2894	7.4	23

189	Diffusion-limited-aggregation processes with three-particle elementary reactions. *Physical Review E* , **1994**, 49, 3233-3238	2.4	23
188	Survival of a static target in a gas of diffusing particles with exclusion. *Physical Review E*, **2014**, 90, 022120	2.4	22
187	Molecular Spiders in One Dimension. *Journal of Statistical Mechanics: Theory and Experiment*, **2007**, 2007, P08027	1.9	22
186	Maximum of N independent Brownian walkers till the first exit from the half-space. *Journal of Physics A: Mathematical and Theoretical*, **2010**, 43, 315001	2	21
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183	Extremal properties of random systems. *Physical Review E*, **1995**, 52, R5727-R5730	2.4	21
182	Domain Number Distribution in the Nonequilibrium Ising Model. *Journal of Statistical Physics*, **1998**, 93, 583-601	1.5	20
181	Phase transition with nonthermodynamic states in reversible polymerization. *Physical Review E*, **2008**, 77, 061132	2.4	20
180	Addition deletion networks. *Journal of Physics A: Mathematical and Theoretical*, **2007**, 40, 8607-8619	2	20
179	Impurity in a Maxwellian unforced granular fluid. *European Physical Journal E*, **2002**, 8, 507-15	1.5	20
178	Percolation with multiple giant clusters. *Journal of Physics A*, **2005**, 38, L417-L423		20
177	Fragmentation with a steady source. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2000**, 275, 48-53	2.3	20
176	Slow coarsening in an Ising chain with competing interactions. *Journal of Physics A*, **1998**, 31, 9229-9240		20
175	Void formation in diffusive lattice gases. *Journal of Statistical Mechanics: Theory and Experiment*, **2012**, 2012, P12014	1.9	19
174	Dynamics of efficiency: a simple model. *Physical Review E*, **2001**, 63, 045101	2.4	19
173	Generalized exclusion processes: Transport coefficients. *Physical Review E*, **2014**, 90, 052108	2.4	18
172	Exciting hard spheres. *Physical Review E*, **2008**, 78, 030301	2.4	18

171 War: The dynamics of vicious civilizations. *Physical Review E*, **1996**, 54, 1274-1289 2.4 18

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163 Transition from small to large world in growing networks. *Europhysics Letters*, **2008**, 81, 30004 1.6 16

162 Alignment of rods and partition of integers. *Physical Review E*, **2006**, 73, 031109 2.4 16

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156 Kinetics of first passage in a cone. *Journal of Physics A: Mathematical and Theoretical*, **2010**, 43, 495007 2 15

155 Stable distributions in stochastic fragmentation. *Journal of Physics A*, **2004**, 37, 2863-2880 15

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153	Pattern formation by growing droplets: The touch-and-stop model of growth. *Journal of Statistical Physics*, **1994**, 75, 507-523	1.5	15
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146	Dynamics of Microtubule Instabilities. *Journal of Statistical Mechanics: Theory and Experiment*, **2007**, L05004	1.9	13
145	Leadership statistics in random structures. *Europhysics Letters*, **2004**, 65, 151-157	1.6	13
144	Diffusive escape in a nonlinear shear flow: Life and death at the edge of a windy cliff. *Journal of Statistical Physics*, **1996**, 82, 999-1014	1.5	13
143	Comment on "Kinematic scaling and crossover to scale invariance in martensite growth". *Physical Review Letters*, **1996**, 76, 3234	7.4	13
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141	Compact waves in microscopic nonlinear diffusion. *Physical Review E*, **2012**, 85, 060103	2.4	12
140	Unicyclic components in random graphs. *Journal of Physics A*, **2004**, 37, L189-L195		12
139	Stokes laws for ions in solutions with ion-induced inhomogeneity. *The Journal of Physical Chemistry*, **1991**, 95, 6055-6057		12
138	Epidemics with containment measures. *Physical Review E*, **2020**, 102, 032305	2.4	12
137	Densification and structural transitions in networks that grow by node copying. *Physical Review E*, **2016**, 94, 062302	2.4	12
136	Steady oscillations in aggregation-fragmentation processes. *Physical Review E*, **2018**, 98, 012109	2.4	11

135	Fluctuations in polymer translocation. *Journal of Statistical Mechanics: Theory and Experiment*, **2010**, 2010, P07007	1.9	11
134	Stochastic aggregation: rate equations approach. *Journal of Physics A*, **2000**, 33, 5465-5475		11
133	Mean-field theory of polynuclear surface growth. *Journal of Physics A*, **1998**, 31, 5001-5012		11
132	Interacting quantum walkers: two-body bosonic and fermionic bound states. *Journal of Physics A: Mathematical and Theoretical*, **2015**, 48, 475301	2	10
131	Zero-temperature coarsening in the 2d Potts model. *Journal of Statistical Mechanics: Theory and Experiment*, **2013**, 2013, P06018	1.9	10
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128	Growth inside a corner: the limiting interface shape. *Physical Review Letters*, **2012**, 108, 016102	7.4	10
127	Outbreak size distributions in epidemics with multiple stages. *Journal of Statistical Mechanics: Theory and Experiment*, **2012**, 2012, P07018	1.9	10
126	Understanding search trees via statistical physics **2005**, 64, 1175-1189		10
125	Does Good Mutation Help You Live Longer?. *Physical Review Letters*, **1999**, 83, 1251-1254	7.4	10
124	First-passage duality. *Journal of Statistical Mechanics: Theory and Experiment*, **2018**, 2018, 093208	1.9	10
123	Variational calculation of transport coefficients in diffusive lattice gases. *Physical Review E*, **2017**, 95, 032121	2.4	9
122	Optimally frugal foraging. *Physical Review E*, **2018**, 97, 022110	2.4	9
121	Spatial evolution of tumors with successive driver mutations. *Physical Review E*, **2015**, 92, 022705	2.4	9
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118	Dynamics of random graphs with bounded degrees. *Journal of Statistical Mechanics: Theory and Experiment*, **2011**, 2011, P11008	1.9	9

117	Kinetics of ring formation. *Physical Review E*, **2011**, 83, 061102	2.4	9
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114	Phase transitions in systems with aggregation and shattering. *Physical Review E*, **2017**, 96, 042138	2.4	8
113	Symmetric exclusion process with a localized source. *Physical Review E*, **2012**, 86, 041103	2.4	8
112	Aggregation-fragmentation processes and decaying three-wave turbulence. *Physical Review E*, **2010**, 81, 035303	2.4	8
111	Stratification in the preferential attachment network. *Journal of Physics A: Mathematical and Theoretical*, **2009**, 42, 475001	2	8
110	Reaction-diffusion process driven by a localized source: first-passage properties. *Physical Review E*, **2012**, 85, 031124	2.4	8
109	Condensates in driven aggregation processes. *Physical Review E*, **2007**, 75, 011103	2.4	8
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107	Finite-size fluctuations in interacting particle systems. *Physical Review E*, **2004**, 69, 046113	2.4	8
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105	Kinetics of catalytic reactions with diffusional relaxation. *Physical Review E*, **1995**, 52, 3455-3461	2.4	8
104	Cluster approximation for the contact process. *Journal of Physics A*, **1994**, 27, L481-L487		8
103	Free fermions with a localized source. *Journal of Statistical Mechanics: Theory and Experiment*, **2019**, 2019, 113108	1.9	8
102	Occupation-time statistics of a gas of interacting diffusing particles. *Physical Review E*, **2019**, 99, 052102	2.4	7
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100	Joint distributions of partial and global maxima of a Brownian bridge. *Journal of Physics A: Mathematical and Theoretical*, **2016**, 49, 335002	2	7

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93	Phase transition in a traffic model with passing. *Physical Review E*, **2000**, 62, 5935-9	2.4	7
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80	Limiting shapes in two-dimensional Ising ferromagnets. *Physical Review E*, **2013**, 87, 062111	2.4	5
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78	Random ancestor trees. *Journal of Statistical Mechanics: Theory and Experiment*, **2010**, 2010, P06004	1.9	5
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74	Molecular spiders on a plane. *Physical Review E*, **2012**, 85, 061927	2.4	5
73	Random geometric series. *Journal of Physics A*, **2004**, 37, 5949-5957		5
72	Kinetics of multilayer deposition: Models without screening. *Journal of Chemical Physics*, **1992**, 97, 2134-2138	3.9	5
71	Blast in a One-Dimensional Cold Gas: From Newtonian Dynamics to Hydrodynamics. *Physical Review Letters*, **2021**, 126, 244503	7.4	5
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66	Discrete analogue of the Burgers equation. *Journal of Physics A: Mathematical and Theoretical*, **2012**, 45, 455003	2	4
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