

Arthur Alan Middleton

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

2,494
citations

25
h-index

42
g-index

42
ext. papers

2,631
ext. citations

4.6
avg, IF

4.97
L-index

#	Paper	IF	Citations
42	Configuration memory in patchwork dynamics for low-dimensional spin glasses. <i>Physical Review B</i> , 2017 , 96,	3.3	2
41	Minimal spanning trees at the percolation threshold: a numerical calculation. <i>Physical Review E</i> , 2013 , 88, 032129	2.4	4
40	Numerically exact correlations and sampling in the two-dimensional Ising spin glass. <i>Physical Review E</i> , 2013 , 87, 043303	2.4	6
39	Extracting thermodynamic behavior of spin glasses from the overlap function. <i>Physical Review B</i> , 2013 , 87,	3.3	15
38	Zero- and low-temperature behavior of the two-dimensional $\pm J$ Ising spin glass. <i>Physical Review Letters</i> , 2011 , 107, 047203	7.4	41
37	Exact algorithm for sampling the two-dimensional Ising spin glass. <i>Physical Review E</i> , 2009 , 80, 046708	2.4	20
36	Statistics of static avalanches in a random pinning landscape. <i>Physical Review E</i> , 2009 , 79, 050101	2.4	45
35	Persistence and memory in patchwork dynamics for glassy models. <i>Physical Review B</i> , 2008 , 77,	3.3	10
34	Irrational mode locking in quasiperiodic systems. <i>Physical Review Letters</i> , 2007 , 98, 148001	7.4	4
33	Measuring functional renormalization group fixed-point functions for pinned manifolds. <i>Physical Review Letters</i> , 2007 , 98, 155701	7.4	40
32	Possible description of domain walls in two-dimensional spin glasses by stochastic Loewner evolutions. <i>Physical Review B</i> , 2007 , 76,	3.3	53
31	Matching Kasteleyn cities for spin glass ground states. <i>Physical Review B</i> , 2007 , 76,	3.3	27
30	Counting States and Counting Operations 2005 , 71-100		
29	Percolation of unsatisfiability in finite dimensions. <i>Physical Review E</i> , 2004 , 70, 035103	2.4	2
28	Mean-field theory of collective transport with phase slips. <i>Physical Review B</i> , 2004 , 70,	3.3	12
27	Improved extremal optimization for the Ising spin glass. <i>Physical Review E</i> , 2004 , 69, 055701	2.4	28
26	Driven depinning of strongly disordered media and anisotropic mean-field limits. <i>Physical Review Letters</i> , 2003 , 91, 107002	7.4	19

25	Critical slowing down in polynomial time algorithms. <i>Physical Review Letters</i> , 2002 , 88, 017202	7.4	27
24	Three-dimensional random-field Ising magnet: Interfaces, scaling, and the nature of states. <i>Physical Review B</i> , 2002 , 65,	3.3	143
23	Color mixing via polarization. <i>Physics Teacher</i> , 2001 , 39, 123-124	0.4	3
22	Energetics and geometry of excitations in random systems. <i>Physical Review B</i> , 2001 , 63,	3.3	39
21	Disorder-induced topological defects in a d=2 elastic medium at zero temperature. <i>Physical Review B</i> , 2000 , 61, 14787-14790	3.3	18
20	Viscoelastic depinning of driven systems: mean-field plastic scallops. <i>Physical Review Letters</i> , 2000 , 85, 1104-7	7.4	49
19	Numerical Investigation of the Thermodynamic Limit for Ground States in Models with Quenched Disorder. <i>Physical Review Letters</i> , 1999 , 83, 1672-1675	7.4	39
18	Computational complexity of determining the barriers to interface motion in random systems. <i>Physical Review E</i> , 1999 , 59, 2571-2577	2.4	15
17	Simulation of the zero-temperature behavior of a three-dimensional elastic medium. <i>Physical Review B</i> , 1999 , 60, 10062-10069	3.3	15
16	Ground-State Roughness of the Disordered Substrate and Flux Lines in d=2. <i>Physical Review Letters</i> , 1996 , 77, 3204-3207	7.4	52
15	Numerical results for the ground-state interface in a random medium. <i>Physical Review E</i> , 1995 , 52, R3337-R3340	7.4	95
14	Self-Organized Criticality in Nonconserved Systems. <i>Physical Review Letters</i> , 1995 , 74, 742-745	7.4	108
13	Avalanches and the renormalization group for pinned charge-density waves. <i>Physical Review B</i> , 1994 , 49, 244-256	3.3	71
12	Critical behavior of charge-density waves below threshold: Numerical and scaling analysis. <i>Physical Review B</i> , 1993 , 47, 3530-3552	3.3	85
11	Collective transport in arrays of small metallic dots. <i>Physical Review Letters</i> , 1993 , 71, 3198-3201	7.4	340
10	Elastic string in a random potential. <i>Physical Review Letters</i> , 1993 , 70, 662-665	7.4	67
9	Scaling near mode locking in a charge density wave conductor. <i>Physical Review Letters</i> , 1993 , 70, 3784-3787	7.4	46
8	Asymptotic uniqueness of the sliding state for charge-density waves. <i>Physical Review Letters</i> , 1992 , 68, 670-673	7.4	202

- 7 Complete mode locking in models of charge-density waves. *Physical Review Letters*, **1992**, 68, 1586-1589 7.4 51
- 6 Thermal rounding of the charge-density-wave depinning transition. *Physical Review B*, **1992**, 45, 9465-9468 53
- 5 Dynamics of directed polymers with cutting interactions. *Physical Review A*, **1992**, 45, 7288-7291 2.6
- 4 Self-organization and a dynamical transition in traffic-flow models. *Physical Review A*, **1992**, 46, R6124-R6127 596
- 3 Middleton, Fisher, and Littlewood reply. *Physical Review Letters*, **1991**, 67, 3873 7.4 1
- 2 Critical behavior of pinned charge-density waves below the threshold for sliding. *Physical Review Letters*, **1991**, 66, 92-95 7.4 62
- 1 Discrete scatterers and autocorrelations of multiply scattered light. *Physical Review B*, **1991**, 43, 5934-5938 29