

Gregory Brown

List of Publications by Year in descending order

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63
papers

1,416
citations

331538

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h-index

345118

36
g-index

64
all docs

64
docs citations

64
times ranked

1235
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-directed spinodal decomposition in a two-dimensional model. <i>Physical Review A</i> , 1992, 46, 4829-4835.	1.0	116
2	Relaxation of persistent photoconductivity in Al _{0.3} Ga _{0.7} As. <i>Physical Review B</i> , 1990, 42, 5855-5858.	1.1	88
3	Competition between ferromagnetism and antiferromagnetism in FePt. <i>Physical Review B</i> , 2003, 68, .	1.1	78
4	Ordering of block copolymer melts in confined geometry. <i>Journal of Chemical Physics</i> , 1995, 102, 1440-1448.	1.2	75
5	Langevin simulation of thermally activated magnetization reversal in nanoscale pillars. <i>Physical Review B</i> , 2001, 64, .	1.1	65
6	Surface-induced ordering in block copolymer melts. <i>Journal of Chemical Physics</i> , 1994, 101, 3310-3317.	1.2	64
7	Static and dynamic Monte Carlo simulations of Br electrodeposition on Ag(100). <i>Surface Science</i> , 2001, 471, 125-142.	0.8	63
8	Speckle from phase-ordering systems. <i>Physical Review E</i> , 1997, 56, 6601-6612.	0.8	60
9	Microphase Separation of a Dense Two-Component Grafted-Polymer Layer. <i>Europhysics Letters</i> , 1994, 25, 239-244.	0.7	57
10	Phase separation dynamics in off-critical polymer blends. <i>Journal of Chemical Physics</i> , 1993, 98, 2451-2458.	1.2	53
11	Dynamics of Br electrosorption on single-crystal Ag(100): a computational study. <i>Journal of Electroanalytical Chemistry</i> , 2000, 493, 68-74.	1.9	43
12	Simulated Dynamics of Underpotential Deposition of Cu with Sulfate on Au(111). <i>Journal of the Electrochemical Society</i> , 1999, 146, 1035-1040.	1.3	40
13	Persistent photoconductivity in II-VI and III-V semiconductor alloys and a novel infrared detector. <i>Journal of Applied Physics</i> , 1991, 69, 6701-6703.	1.1	39
14	Surface-Induced Asymmetries during Spinodal Decomposition in Off-Critical Polymer Mixtures. <i>Macromolecules</i> , 1994, 27, 6768-6776.	2.2	39
15	Electrosorption of Br and Cl on Ag(1 0 0): experiments and computer simulations. <i>Journal of Electroanalytical Chemistry</i> , 2003, 554-555, 211-219.	1.9	34
16	Micromagnetic simulations of thermally activated magnetization reversal of nanoscale magnets. <i>Journal of Applied Physics</i> , 2000, 87, 4792-4794.	1.1	28
17	Wang's Landau estimation of magnetic properties for the Heisenberg model. <i>Journal of Applied Physics</i> , 2005, 97, 10E303.	1.1	27
18	Surface-induced nucleation. <i>Physical Review E</i> , 1994, 50, 1674-1677.	0.8	26

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19	First principles calculation of finite temperature magnetism in Fe and Fe ₃ C. Journal of Applied Physics, 2011, 109, 07E138.	1.1	24
20	Monte Carlo simulations of interacting magnetic nanoparticles. Journal of Applied Physics, 2002, 91, 6926.	1.1	23
21	Evolution of speckle during spinodal decomposition. Physical Review E, 1999, 60, 5151-5162.	0.8	22
22	Cl electrosorption on Ag(110): Lateral interactions and electrosorption valency from comparison of Monte Carlo simulations with chronocoulometry experiments. Electrochimica Acta, 2005, 50, 5518-5525.	2.6	22
23	Equilibrium, metastability, and hysteresis in a model spin-crossover material with nearest-neighbor antiferromagnetic-like and long-range ferromagnetic-like interactions. Physical Review B, 2016, 93, .	1.1	20
24	Phonon-magnon interactions in body centered cubic iron: A combined molecular and spin dynamics study. Journal of Applied Physics, 2014, 115, 17D124.	1.1	19
25	Kinetic Monte Carlo simulations of a model for heat-assisted magnetization reversal in ultrathin films. Physical Review B, 2011, 84, .	1.1	18
26	Convergence for the Wang-Landau density of states. Physical Review E, 2011, 84, 065702.	0.8	17
27	Numerical confirmation of late-time $t^{1/2}$ growth in three-dimensional phase ordering. Physical Review E, 2002, 65, 036137.	0.8	16
28	Large-scale computer investigations of finite-temperature nucleation and growth phenomena in magnetization reversal and hysteresis (invited). Journal of Applied Physics, 2002, 91, 6908.	1.1	16
29	Equilibrium and non-equilibrium applications of lattice-gas models in electrochemistry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 134, 3-14.	2.3	15
30	Layering Phase Separation of Densely Grafted Diblock Copolymers. Macromolecules, 1995, 28, 7817-7821.	2.2	14
31	Structure formation in self-associating polymer and surfactant systems. Journal of Chemical Physics, 1992, 96, 3251-3254.	1.2	13
32	Universality and scaling for the structure factor in dynamic order-disorder transitions. Physical Review E, 1998, 58, 5501-5507.	0.8	13
33	Monte Carlo study of phase separation in critical polymer blends. Physical Review E, 1993, 48, 3705-3711.	0.8	12
34	Thermal magnetization reversal in arrays of nanoparticles. Journal of Applied Physics, 2001, 89, 7588-7590.	1.1	12
35	Determination of the basic timescale in kinetic Monte Carlo simulations by comparison with cyclic-voltammetry experiments. Surface Science, 2004, 572, L355-L361.	0.8	11
36	First principles approach to the magneto caloric effect: Application to Ni ₂ MnGa. Journal of Applied Physics, 2011, 109, 07A942.	1.1	11

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37	Monte Carlo and variational calculations of the magnetic phase diagram of CuFeO ₂ . Physical Review B, 2012, 85, .	1.1	11
38	Flexible Fast Multipole Method for Magnetic Simulations. IEEE Transactions on Magnetics, 2004, 40, 2146-2148.	1.2	10
39	Spin-wave dynamics for the high-magnetic-field phases of the frustrated CuFeO ₂ antiferromagnet: Predictions for inelastic neutron scattering. Physical Review B, 2012, 86, .	1.1	10
40	Magnetic properties of Fe nanocubes with magnetostatic interactions. Journal of Applied Physics, 2003, 93, 7047-7049.	1.1	9
41	Question of dynamical universality in models for phase separation. Physical Review A, 1992, 46, 981-984.	1.0	8
42	Intrinsic volume scaling of thermoinduced magnetization in antiferromagnetic nanoparticles. Physical Review B, 2005, 72, .	1.1	8
43	Reply to "Remarks on the simulation of Cl electrosorption on Ag(111)" reported in Electrochimica Acta 50 (2005) 5518. Electrochimica Acta, 2007, 52, 1932-1935.	2.6	8
44	Transition state in magnetization reversal. Journal of Applied Physics, 2003, 93, 6817-6819.	1.1	7
45	Thermal and dynamic effects in Langevin simulation of hysteresis in nanoscale pillars. Physica B: Condensed Matter, 2001, 306, 117-120.	1.3	5
46	Model of Fe nanostripes on Cu(111). Journal of Applied Physics, 2002, 91, 7056.	1.1	5
47	Modeling and characterization of the magnetocaloric effect in Ni ₂ MnGa materials. International Journal of Refrigeration, 2014, 37, 289-296.	1.8	5
48	Angular dependence of switching properties in single Fe nanopillars. Journal of Applied Physics, 2004, 95, 6666-6668.	1.1	4
49	Reversal modes of simulated iron nanopillars in an obliquely oriented field. Journal of Applied Physics, 2005, 97, 10E520.	1.1	4
50	Resolution-dependent mechanisms for bimodal switching-time distributions in simulated Fe nanopillars. Physical Review B, 2009, 79, .	1.1	4
51	Monte Carlo Studies of the Ising Antiferromagnet with a Ferromagnetic Mean-field Term. Physics Procedia, 2014, 57, 20-23.	1.2	4
52	Spin-wave multiple excitations in nanoscale classical Heisenberg antiferromagnets. Physical Review B, 2015, 91, .	1.1	4
53	Numerical simulations of scattering speckle from phase ordering systems. Physica A: Statistical Mechanics and Its Applications, 1997, 239, 363-372.	1.2	3
54	Projective dynamics analysis of magnetization reversal. Physica B: Condensed Matter, 2004, 343, 195-199.	1.3	3

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55	Magnetic Materials at finite Temperatures: thermodynamics and combined spin and molecular dynamics derived from first principles calculations. Journal of Physics: Conference Series, 2015, 640, 012019.	0.3	3
56	Dynamics of Magnetization Reversal in Models of Magnetic Nanoparticles and Ultrathin Films. Lecture Notes in Physics, 2002, , 164-182.	0.3	2
57	Improved methods for calculating thermodynamic properties of magnetic systems using Wang-Landau density of states. Journal of Applied Physics, 2011, 109, 07E161.	1.1	2
58	Novel nanophysics in antiferromagnetic Heisenberg chains. Journal of Applied Physics, 2008, 103, 07D504.	1.1	1
59	Two modes of magnetization switching in a simulated iron nanopillar in an obliquely oriented field. Journal of Physics Condensed Matter, 2010, 22, 236001.	0.7	1
60	Perturbation calculation of thermodynamic density of states. Physical Review E, 2011, 84, 061116.	0.8	1
61	Density of states for systems with multiple order parameters: a constrained Wang-Landau method. Journal of Physics: Conference Series, 2017, 921, 012019.	0.3	1
62	Simulated magnetization reversal in Fe nanopillar. Chaos, 2005, 15, 041106.	1.0	0
63	Exact Enumeration of the Phase Space of an Ising Model of Ni ₂ MnGa. IEEE Transactions on Magnetics, 2013, 49, 3141-3143.	1.2	0