

Gregory Brown

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5996356/publications.pdf>

Version: 2024-02-01

63
papers

1,416
citations

331538

21
h-index

345118

36
g-index

64
all docs

64
docs citations

64
times ranked

1235
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Spin-wave multiple excitations in nanoscale classical Heisenberg antiferromagnets. Physical Review B, 2015, 91, .	1.1	4
5	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
6	Modeling and characterization of the magnetocaloric effect in Ni ₂ MnGa materials. International Journal of Refrigeration, 2014, 37, 289-296.	1.8	5
7	Monte Carlo Studies of the Ising Antiferromagnet with a Ferromagnetic Mean-field Term. Physics Procedia, 2014, 57, 20-23.	1.2	4
8	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
9	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
10	Monte Carlo and variational calculations of the magnetic phase diagram of CuFeO ₂ . Physical Review B, 2012, 85, .	1.1	11
11	Convergence for the Wang-Landau density of states. Physical Review E, 2011, 84, 065702.	0.8	17
12	Kinetic Monte Carlo simulations of a model for heat-assisted magnetization reversal in ultrathin films. Physical Review B, 2011, 84, .	1.1	18
13	First principles approach to the magneto caloric effect: Application to Ni ₂ MnGa. Journal of Applied Physics, 2011, 109, 07A942.	1.1	11
14	First principles calculation of finite temperature magnetism in Fe and Fe ₃ C. Journal of Applied Physics, 2011, 109, 07E138.	1.1	24
15	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
16	Perturbation calculation of thermodynamic density of states. Physical Review E, 2011, 84, 061116.	0.8	1
17	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
18	Resolution-dependent mechanisms for bimodal switching-time distributions in simulated Fe nanopillars. Physical Review B, 2009, 79, .	1.1	4

#	ARTICLE	IF	CITATIONS
19	Novel nanophysics in antiferromagnetic Heisenberg chains. <i>Journal of Applied Physics</i> , 2008, 103, 07D504.	1.1	1
20	Reply to "Remarks on the simulation of Cl electrosorption on Ag(100) reported in <i>Electrochimica Acta</i> 50 (2005) 5518". <i>Electrochimica Acta</i> , 2007, 52, 1932-1935.	2.6	8
21	Cl electrosorption on Ag(100): Lateral interactions and electrosorption valency from comparison of Monte Carlo simulations with chronocoulometry experiments. <i>Electrochimica Acta</i> , 2005, 50, 5518-5525.	2.6	22
22	Reversal modes of simulated iron nanopillars in an obliquely oriented field. <i>Journal of Applied Physics</i> , 2005, 97, 10E520.	1.1	4
23	Intrinsic volume scaling of thermally induced magnetization in antiferromagnetic nanoparticles. <i>Physical Review B</i> , 2005, 72, .	1.1	8
24	Simulated magnetization reversal in Fe nanopillar. <i>Chaos</i> , 2005, 15, 041106.	1.0	0
25	Wang's Landau estimation of magnetic properties for the Heisenberg model. <i>Journal of Applied Physics</i> , 2005, 97, 10E303.	1.1	27
26	Determination of the basic timescale in kinetic Monte Carlo simulations by comparison with cyclic-voltammetry experiments. <i>Surface Science</i> , 2004, 572, L355-L361.	0.8	11
27	Projective dynamics analysis of magnetization reversal. <i>Physica B: Condensed Matter</i> , 2004, 343, 195-199.	1.3	3
28	Angular dependence of switching properties in single Fe nanopillars. <i>Journal of Applied Physics</i> , 2004, 95, 6666-6668.	1.1	4
29	Flexible Fast Multipole Method for Magnetic Simulations. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 2146-2148.	1.2	10
30	Electrosorption of Br and Cl on Ag(100): experiments and computer simulations. <i>Journal of Electroanalytical Chemistry</i> , 2003, 554-555, 211-219.	1.9	34
31	Magnetic properties of Fe nanocubes with magnetostatic interactions. <i>Journal of Applied Physics</i> , 2003, 93, 7047-7049.	1.1	9
32	Competition between ferromagnetism and antiferromagnetism in FePt. <i>Physical Review B</i> , 2003, 68, .	1.1	78
33	Transition state in magnetization reversal. <i>Journal of Applied Physics</i> , 2003, 93, 6817-6819.	1.1	7
34	Model of Fe nanostripes on Cu(111). <i>Journal of Applied Physics</i> , 2002, 91, 7056.	1.1	5
35	Numerical confirmation of late-time $t^{1/2}$ growth in three-dimensional phase ordering. <i>Physical Review E</i> , 2002, 65, 036137.	0.8	16
36	Large-scale computer investigations of finite-temperature nucleation and growth phenomena in magnetization reversal and hysteresis (invited). <i>Journal of Applied Physics</i> , 2002, 91, 6908.	1.1	16

#	ARTICLE	IF	CITATIONS
37	Monte Carlo simulations of interacting magnetic nanoparticles. Journal of Applied Physics, 2002, 91, 6926.	1.1	23
38	Dynamics of Magnetization Reversal in Models of Magnetic Nanoparticles and Ultrathin Films. Lecture Notes in Physics, 2002, , 164-182.	0.3	2
39	Static and dynamic Monte Carlo simulations of Br electrodeposition on Ag(100). Surface Science, 2001, 471, 125-142.	0.8	63
40	Thermal and dynamic effects in Langevin simulation of hysteresis in nanoscale pillars. Physica B: Condensed Matter, 2001, 306, 117-120.	1.3	5
41	Langevin simulation of thermally activated magnetization reversal in nanoscale pillars. Physical Review B, 2001, 64, .	1.1	65
42	Thermal magnetization reversal in arrays of nanoparticles. Journal of Applied Physics, 2001, 89, 7588-7590.	1.1	12
43	Dynamics of Br electrosorption on single-crystal Ag(100): a computational study. Journal of Electroanalytical Chemistry, 2000, 493, 68-74.	1.9	43
44	Micromagnetic simulations of thermally activated magnetization reversal of nanoscale magnets. Journal of Applied Physics, 2000, 87, 4792-4794.	1.1	28
45	Evolution of speckle during spinodal decomposition. Physical Review E, 1999, 60, 5151-5162.	0.8	22
46	Simulated Dynamics of Underpotential Deposition of Cu with Sulfate on Au(111). Journal of the Electrochemical Society, 1999, 146, 1035-1040.	1.3	40
47	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
48	Universality and scaling for the structure factor in dynamic order-disorder transitions. Physical Review E, 1998, 58, 5501-5507.	0.8	13
49	Speckle from phase-ordering systems. Physical Review E, 1997, 56, 6601-6612.	0.8	60
50	Numerical simulations of scattering speckle from phase ordering systems. Physica A: Statistical Mechanics and Its Applications, 1997, 239, 363-372.	1.2	3
51	Ordering of block copolymer melts in confined geometry. Journal of Chemical Physics, 1995, 102, 1440-1448.	1.2	75
52	Layering Phase Separation of Densely Grafted Diblock Copolymers. Macromolecules, 1995, 28, 7817-7821.	2.2	14
53	Microphase Separation of a Dense Two-Component Grafted-Polymer Layer. Europhysics Letters, 1994, 25, 239-244.	0.7	57
54	Surface-induced nucleation. Physical Review E, 1994, 50, 1674-1677.	0.8	26

#	ARTICLE	IF	CITATIONS
55	Surface-induced ordering in block copolymer melts. Journal of Chemical Physics, 1994, 101, 3310-3317.	1.2	64
56	Surface-Induced Asymmetries during Spinodal Decomposition in Off-Critical Polymer Mixtures. Macromolecules, 1994, 27, 6768-6776.	2.2	39
57	Phase separation dynamics in off-critical polymer blends. Journal of Chemical Physics, 1993, 98, 2451-2458.	1.2	53
58	Monte Carlo study of phase separation in critical polymer blends. Physical Review E, 1993, 48, 3705-3711.	0.8	12
59	Surface-directed spinodal decomposition in a two-dimensional model. Physical Review A, 1992, 46, 4829-4835.	1.0	116
60	Structure formation in self-associating polymer and surfactant systems. Journal of Chemical Physics, 1992, 96, 3251-3254.	1.2	13
61	Question of dynamical universality in models for phase separation. Physical Review A, 1992, 46, 981-984.	1.0	8
62	Persistent photoconductivity in II-VI and III-V semiconductor alloys and a novel infrared detector. Journal of Applied Physics, 1991, 69, 6701-6703.	1.1	39
63	Relaxation of persistent photoconductivity in Al _{0.3} Ga _{0.7} As. Physical Review B, 1990, 42, 5855-5858.	1.1	88