Marco Pretti

List of Publications by Year
in descending order

46 papers	508 citations	687335 13 h-index	713444 21 g-index
46 all docs	46 docs citations	46 times ranked	316 citing authors

#	Article	IF	Citations
1	A message-passing algorithm with damping. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P11008-P11008.	2.3	78
2	A Note on Cactus Trees: Variational vs. Recursive Approach. Journal of Statistical Physics, 2003, 111, 993-1015.	1.2	53
3	Cluster variation approach to the Ising square lattice with two- and four-spin interactions. Physical Review B, 1997, 56, 636-644.	3.2	34
4	Thermodynamic anomalies in a lattice model of water. Journal of Chemical Physics, 2004, 121, 11856-11866.	3.0	27
5	Cluster-variation approximation for a network-forming lattice-fluid model. Journal of Chemical Physics, 2008, 129, 024506.	3.0	24
6	Two-dimensional lattice-fluid model with waterlike anomalies. Physical Review E, 2004, 69, 061502.	2.1	23
7	Computational protein design with side‑chain conformational entropy. Proteins: Structure, Function and Bioinformatics, 2009, 74, 176-191.	2.6	23
8	Properties of some mean-field-like approximations for the triangular Ising antiferromagnet. Physical Review B, 1999, 60, 10134-10144.	3.2	22
9	Exact solution of a RNA-like polymer model on the Husimi lattice. Journal of Chemical Physics, 2007, 127, 184902.	3.0	17
10	Lattice model for polymer hydration: collapse of poly(N-isopropylacrylamide). Macromolecular Symposia, 2002, 181, 261-274.	0.7	16
11	Semiflexible polymer in the cactus approximation. Physical Review E, 2002, 66, 061802.	2.1	14
12	Hydrophobic effect in a lattice model of aqueous solutions. Journal of Chemical Physics, 2003, 119, 3791-3799.	3.0	14
13	Lattice polymers with hydrogen bondlike interactions. Journal of Chemical Physics, 2002, 117, 10360-10369.	3.0	13
14	Sudden emergence of q -regular subgraphs in random graphs. Europhysics Letters, 2006, 75, 8-14.	2.0	13
15	Comment on "Nature of the Collapse Transition for Polymers" Physical Review Letters, 2002, 89, 169601; author reply 169602.	7.8	12
16	Heterochirality in Langmuir monolayers and antiferromagnetic Blume–Emery–Griffiths model. Journal of Chemical Physics, 2000, 112, 8126-8136.	3.0	11
17	On the Convergence of Kikuchi's Natural Iteration Method. Journal of Statistical Physics, 2005, 119, 659-675.	1.2	9
18	Thermodynamic anomalies in a lattice model of water: Solvation properties. Journal of Chemical Physics, 2005, 123, 024506.	3.0	8

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19	Revisiting waterlike network-forming lattice models. Journal of Chemical Physics, 2009, 131, 224508.	3.0	8
20	Unbalanced Langmuir kinetics affects TASEP dynamical transitions: mean-field theory. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 345001.	2.1	8
21	Stable propagation algorithm for the minimization of the Bethe free energy. Journal of Physics A, 2003, 36, 11201-11211.	1.6	7
22	Belief-Propagation-Assisted Scheduling in Input-Queued Switches. IEEE Transactions on Computers, 2013, 62, 2101-2107.	3.4	7
23	Dynamical transition in the TASEP with Langmuir kinetics: mean-field theory. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 045001.	2.1	7
24	RNA-like polymer model: Exact calculation on the Bethe lattice. Physical Review E, 2006, 74, 051803.	2.1	6
25	Polymer models with competing collapse interactions on Husimi and Bethe lattices. Physical Review E, 2016, 93, 032110.	2.1	6
26	Bethe approximation for a hydrophobic-polar random copolymer. Physical Review E, 2002, 66, 031803.	2.1	5
27	Hydration of an apolar solute in a two-dimensional waterlike lattice fluid. Physical Review E, 2005, 71, 051502.	2.1	5
28	Dynamical transitions in a driven diffusive model with interactions. Europhysics Letters, 2018, 124, 50004.	2.0	5
29	RNA-like model on the Husimi lattice. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 88-91.	2.6	4
30	Belief-Propagation Assisted Scheduling in Input-Queued Switches. , 2010, , .		4
31	Dynamical Transitions in a One-Dimensional Katzâ€"Lebowitzâ€"Spohn Model. Entropy, 2019, 21, 1028.	2.2	4
32	Polymer Solution Model with Anisotropic Phase. Molecular Crystals and Liquid Crystals, 2003, 398, 23-32.	0.9	3
33	Alternative Variational Approach to Cactus Lattices. Journal of Statistical Physics, 2007, 127, 1237-1253.	1.2	3
34	Palette-colouring: a belief propagation approach. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P05010.	2.3	3
35	A belief-propagation approach for multicast scheduling in input-queued switches. , 2013, , .		3
36	Partial integration and local mean field approach for a vector lattice model of microemulsions: unbalanced case. Physica A: Statistical Mechanics and Its Applications, 1999, 262, 280-293.	2.6	2

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37	Low-temperature-induced swelling of a hydrophobic polymer: A lattice approach. Journal of Chemical Physics, 2007, 126, 074904.	3.0	2
38	A discrete model of water with two distinct glassy phases. Europhysics Letters, 2010, 92, 46008.	2.0	2
39	Phase behavior of an asymmetric vector lattice model for oil-water-amphiphile mixtures. Journal of Chemical Physics, 1999, 111, 7624-7635.	3.0	1
40	A microemulsion model on sc, bcc and fcc lattices: Ground state properties. Journal of Chemical Physics, 2000, 113, 11364-11371.	3.0	1
41	Design and implementation of a belief-propagation scheduler for multicast traffic in input-queued switches. Computer Communications, 2017, 103, 141-152.	5.1	1
42	Herringbone ordering and lattice distortions in a planar-molecule model for Langmuir monolayers. Physical Review E, 2000, 62, 5230-5241.	2.1	0
43	Accurate results for Ising models from large order cluster variation method. AIP Conference Proceedings, 2001, , .	0.4	0
44	Tilting and Swiveling Transitions in a Molecular Model for Langmuir Monolayers. Molecular Crystals and Liquid Crystals, 2002, 372, 179-187.	0.9	0
45	Chemically controlled unfolding of a RNA-like polymer model. Physical Review E, 2012, 86, 041913.	2.1	0
46	Lowering the error floor of Gallager codes: a statistical-mechanical view. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P10042.	2.3	0