

## Publication List

1. B. Dünweg and K. Binder, *Model calculations of phase diagrams of magnetic alloys on the body-centered cubic lattice*, Physical Review **B 36**, 6935 (1987).
2. B. Dünweg and K. Binder, *Monte Carlo calculations of phase diagrams of magnetic alloys on the body-centered cubic lattice*, in *Alloy Phase Stability* (G. M. Stocks and A. Gonis, eds.), NATO ASI series E, vol. **163**, Kluwer Academic Publishers, Dordrecht / Boston / London 1989, p. 263.
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4. B. Dünweg and K. Kremer, *Application of molecular dynamics on polymer systems*, lecture on the 1989 spring school at the Institut für Festkörperforschung, Forschungszentrum Jülich, on “Computer Simulations in Physics” (lecture notes edited by Forschungszentrum Jülich; in German).
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6. B. Minchau, B. Dünweg, and K. Binder, *Microphase separation transition in block copolymers: A test of Leibler’s theory by Monte Carlo simulation*, Polymer Communications **31**, 348 (1990).
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12. N. Georgiev, A. Milchev, M. Paunov, and B. Dünweg, *A grand ensemble Monte Carlo study of metal adsorption on a (110) bcc substrate*, Surface Science **264**, 455 (1992); Erratum **275**, 493 (1992).
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14. K. Kremer, B. Dünweg, and M. J. Stevens, *Computer simulations for polymer solutions*, Physica **A 194**, 321 (1993).
15. B. Dünweg, *Molecular dynamics algorithms and hydrodynamic screening*, Journal of Chemical Physics **99**, 6977 (1993).
16. B. Dünweg and K. Kremer, *Molecular dynamics simulation of a polymer chain in solution*, Journal of Chemical Physics **99**, 6983 (1993).
17. B. Dünweg and D. P. Landau, *Monte Carlo studies of compositional ordering in binary semiconductors*, in *Computer Aided Innovation of New Materials II* (M. Doyama, J. Kihara, M. Tanaka, and R. Yamamoto, eds.), Elsevier Science Publishers 1993, p. 433.
18. B. Dünweg and D. P. Landau, *Phase diagram and critical behavior of the Si-Ge unmixing transition: A Monte Carlo Study of a model with elastic degrees of freedom*, Physical Review **B 48**, 14182 (1993).
19. B. Dünweg and D. P. Landau, *Monte Carlo studies of unmixing in semiconductor alloys: Effects of elastic degrees of freedom*, in *Alloy Modeling and Design* (G. M. Stocks and P. E. A. Turchi, eds.), TMS Society, Warrendale, PA, 1994, p. 175.
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24. S. Kämmerer, B. Dünweg, K. Binder, and M. d’Onorio De Meo, *Nearest-neighbor Ising antiferromagnet on the fcc lattice: Evidence for multicritical behavior*, Physical Review **B 53**, 2345 (1996).
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32. A. Heuer, B. Dünweg, and A. M. Ferrenberg, *Considerations on correlations in shift-register pseudorandom number generators and their removal*, Computer Physics Communications **103**, 1 (1997).
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35. Ch. Bennemann, W. Paul, K. Binder, and B. Dünweg, *Molecular-dynamics simulations of the thermal glass transition in polymer melts:  $\alpha$ -relaxation behavior*, Physical Review E **57**, 843 (1998).
36. M. Presber, B. Dünweg, and D. P. Landau, *Monte Carlo studies of adsorbed monolayers: Lattice-gas models with translational degrees of freedom*, Physical Review E **58**, 2616 (1998).
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42. V. Yamakov, A. Milchev, H.-J. Limbach, B. Dünweg and R. Everaers, *Conformations of random polyampholytes*, Physical Review Letters **85**, 4305 (2000).

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44. P. Ahlrichs, R. Everaers and B. Dünweg, *Screening of hydrodynamic interactions in semidilute polymer solutions: A computer simulation study*, Physical Review E **64**, 040501(R) (2001).
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52. B. Dünweg, *Langevin methods*, contribution in entry 51, pp. 77–92.
53. B. Dünweg, *Accelerated algorithms 2*, contribution in entry 51, pp. 209–222.
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71. B. Dünweg, *Book review on “Elements of Nonequilibrium Statistical Mechanics” by V. Balakrishnan*, Soft Materials **6**, 157 (2008).
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