

# List of Publications for Anders Rosengren

October 29, 2014

1. B. Johansson and A. Rosengren  
*Generalized phase diagram for the rare-earth elements: Calculations and correlations of bulk properties*  
Phys. Rev. B **11**, 2836 (1975).
2. B. Johansson and A. Rosengren  
*Interpolation scheme for the cohesive energies for the lanthanides and actinides*  
Phys. Rev. B **11**, 1367 (1975).
3. A. Rosengren and B. Johansson  
*Lattice dynamics of rubidium*  
J. Phys. F: Metal Phys. **5**, 629 (1975).
4. A. Rosengren, I. Ebbsjö, and B. Johansson  
*Calculation of the phonon spectrum in thorium*  
Phys. Rev. B **12**, 1337 (1975).
5. A. Rosengren and B. Johansson  
*Alloy theory of the intermediate valence state: Application to europium metal*  
Phys. Rev. B **13**, 1468 (1976).
6. B. Johansson and A. Rosengren  
*Pressure dependence of the f level in rare-earth systems*  
Phys. Rev. B **14**, 361 (1976).
7. A. Rosengren and B. Johansson  
*DODS and the electron gas*  
Int. J. Quantum Chem. **VII**, 1033 (1973).
8. B. Johansson and A. Rosengren  
*The volume difference between  ${}^6\text{Li}$  and  ${}^7\text{Li}$*   
J. Phys. F: Metal Phys. **5**, L15 (1975).
9. L. Hedin and A. Rosengren  
*On temperature broadening in x ray spectra of metals*  
J. Phys. F: Metal Phys. **7**, 1339 (1977).
10. P. Minnhagen, A. Rosengren, and G. Grinstein  
*Screening properties of a classical two-dimensional Coulomb gas from the sine-Gordon equation*  
Phys. Rev. B **18**, 1356 (1978).

11. G. Grinstein, P. Minnhagen, and A. Rosengren  
*Bosonisation without bosons in the one-dimensional electron gas*  
J. Phys. C: Solid State Phys. **12**, 1271 (1979).
12. A. Rosengren and B. Johansson  
*Calculated transition-metal surface core-level binding-energy shifts*  
Phys. Rev. B **22**, 3706 (1980).
13. B. Johansson and A. Rosengren  
*Proceedings of the '10-ème Journées des Actinides'*  
(Stockholm, Sweden, 1980).
14. A. Rosengren and B. Johansson  
*Surface heat of segregation from surface core-level binding-energy shifts*  
Phys. Rev. B **23**, 3852 (1981).
15. A. Rosengren  
*Surface-core-level shifts for low-index surfaces of W and Ta*  
Phys. Rev. B **24**, 7393 (1981).
16. A. Rosengren and B. Johansson  
*Valence instability of the samarium metal surface*  
Phys. Rev. B **26**, 3068 (1982).
17. A. Rosengren  
*Two-dimensional self-avoiding walks*  
Phys. Rev. A **32**, 3838 R (1985).
18. A. Rosengren  
*On the combinatorial solution of the Ising model*  
J. Phys. A: Math. Gen. **19**, 1709 (1986).
19. A. Rosengren and B. Lindström  
*A combinatorial series expansion for the Ising model*  
Europ. J. Combinatorics **8**, 317 (1987).
20. A. Rosengren  
*On the number of spanning trees for the 3D simple cubic lattice*  
J. Phys. A: Math. Gen. **20**, L923 (1987).
21. A. Rosengren  
*Commensurate phases and devil's staircase*  
Phys. Rev. B **37**, 1950 (1988).
22. A. Rosengren  
*Tunga fermioner*  
KOSMOS, 97 (1988).
23. A. Rosengren and R. Häggkvist  
*Rigorous solution of a two-dimensional Blume-Emery-Griffiths model*  
Phys. Rev. Lett. **63**, 660 (1989).

24. A. Rosengren and R. Häggkvist  
*Rigorous solution of a two-dimensional Blume-Emery-Griffiths model – Reply*  
Phys. Rev. Lett. **64**, 701 (1990).
25. A. Rosengren and R. Häggkvist  
*Estimate of  $Z(2,4)$  for the loop-gas model on the honeycomb lattice*  
Phys. Rev. B **42**, 202 (1990).
26. S. Lapinskas, A. Rosengren, and E. E. Tornau  
*Oxygen ordering and superconducting temperature of  $YBa_2Cu_3O_{6+x}$*   
Physica C **199**, 91 (1992).
27. V. E. Zubkus, S. Lapinskas, A. Rosengren, and E. E. Tornau  
*Cell tripled structure of  $YBa_2Cu_3O_{6+x}$  for  $x > 0.5$*   
Physica C **206**, 155 (1993).
28. E. E. Tornau, A. Rosengren, and S. Lapinskas  
*Oxygen evolution from  $YBa_2Cu_3O_7$  compound studied by Monte Carlo simulation*  
J. Phys.: Condens. Matter **5**, 443 (1993).
29. A. Rosengren and S. Lapinskas  
*Phase diagram of the Blume-Emery-Griffiths model on the honeycomb lattice calculated by the cluster-variation method*  
Phys. Rev. B **47**, 2643 (1993).
30. M. Hammar, Y. Gauthier, M. Göthelid, U. O. Karlsson, S. A. Flodström, and A. Rosengren  
*Scanning tunnelling microscopy studies of  $Pt_{80}Fe_{20}(110)$*   
J. Phys.: Condens. Matter **5**, 2837 (1993).
31. S. Lapinskas, A. Rosengren, and E. E. Tornau  
*Monte Carlo study of oxygen thermal desorption from  $YBa_2Cu_3O_{6+x}$  compound*  
Surface Science **287/288**, 50 (1993).
32. E. E. Tornau, S. Lapinskas, G. Grigelionis, and A. Rosengren  
*Model of oxygen ordering for  $Y_2Ba_4Cu_7O_{14+x}$  compound*  
Phys. Rev. Lett. **70**, 3139 (1993).
33. A. Rosengren and S. Lapinskas  
*Ferrimagnetic phases in the Blume-Emery-Griffiths model: Implications for the antiferromagnetic Potts model*  
Phys. Rev. Lett. **71**, 165 (1993).
34. V. E. Zubkus, V. A. Onischuk, E. E. Tornau, and A. Rosengren  
*Thermodynamics of the one-dimensional six-vertex ferroelectric model with proton tunneling*  
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35. S. Lapinskas, E. E. Tornau, and A. Rosengren  
*Model of the orientational phase transition in solid  $C_{60}$*   
Phys. Rev. B **49**, 9372 (1994).

36. S. Lapinskas and A. Rosengren  
*Blume-Emery-Griffiths model on three-dimensional lattices: Consequences for the antiferromagnetic Potts model*  
Phys. Rev. B **49**, 15 190 (1994).
37. A. V. Balatsky, A. Rosengren, and B. L. Altshuler  
*Impurities and quasi-one-dimensional transport in a d-wave superconductor*  
Phys. Rev. Lett. **73**, 720 (1994).
38. E. E. Tornau, S. Lapinskas, A. Rosengren, and V. M. Matic  
*Length and configurations of O-Cu-O chains in  $YBa_2Cu_3O_{6+x}$ : Comparison with NMR, NQR, and EPR experiments*  
Phys. Rev. B **49**, 15 952 (1994).
39. G. Grigelionis and A. Rosengren  
*Study of the Blume-Emery-Griffiths model on the triangular lattice by the cluster-variation method*  
Physica A **208**, 287 (1994).
40. V. Ya. Krivnov, I. L. Shamovsky, E. E. Tornau, and A. Rosengren  
*Electronic correlation effects in a fullerene molecule studied by the variational Monte Carlo method*  
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*Why does  $Y_2Ba_4Cu_7O_{14+x}$  not exhibit a plateau in its  $T_c(x)$  dependence? Predictions from oxygen ordering*  
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42. E. E. Tornau, P. J. Kundrotas, S. Lapinskas, and A. Rosengren  
*Comparison of oxygen ordering and charge transfer in  $YBa_2Cu_3O_{6+x}$  and  $Y_2Ba_4Cu_7O_{14+x}$  compounds*  
Physica C **235-240**, 869 (1994).
43. G. Grigelionis, S. Lapinskas, A. Rosengren, and E. E. Tornau  
*On the first-order phase transitions in  $YBa_2Cu_3O_{6+x}$*   
Physica C **242**, 183 (1995).
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45. V. N. Likhachev, V. A. Onischuk, and A. Rosengren  
*Thermodynamics of the one-dimensional ferroelectric model with proton tunneling*  
Synthetic Metals **71**, 1925 (1995).
46. A. V. Balatsky, M. I. Salkola, and A. Rosengren  
*Impurity-induced virtual bound states in d-wave superconductors*  
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47. P. J. Kundrotas, E. E. Tornau, and A. Rosengren  
*Non-chain superstructures of  $YBa_2Cu_3O_{6.375}$  at finite temperatures*  
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*Correlation effects and lattice distortions in  $C_{60}$*   
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*Phase transitions in the three-state antiferromagnetic Potts model*  
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50. S. Lapinskas, E. E. Tornau, A. Rosengren, and P. Schleger  
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Phys. Rev. B **53**, 425 (1996).
52. I. Tupitsyn, M. Wallin, and A. Rosengren  
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53. E. Janin, M. Björkqvist, T. M. Grehk, M. Göthelid, C. -M. Pradier, U. O. Karlsson, and A. Rosengren  
*Hydrogen absorption on the  $Pt(111)$   $(\sqrt{3}\times\sqrt{3})R30^\circ$ - $Sn$  surface alloy studied by high resolution core level photoelectron spectroscopy*  
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54. G. Grigelionis, P. J. Kundrotas, E. E. Tornau, and A. Rosengren  
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*Critical properties of the Blume-Emery-Griffiths model from the coherent-anomaly method*  
Physica A **233**, 515 (1996).
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*Holes amount and aging of quenched samples of  $YBa_2Cu_3O_{6+x}$*   
Physica C **269**, 198 (1996).
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*Dielectric measurements and Monte Carlo studies of mixed crystals (betaine phosphate) $_x$ (betaine phosphite) $_{1-x}$  at small  $x$*   
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*Density-matrix renormalization-group analysis of the spin- $\frac{1}{2}$  XXZ chain in an XY symmetric random magnetic field*  
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100. S. Bergkvist, I. P. McCulloch, and A. Rosengren  
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102. A. B. Belonoshko, N. V. Skorodumova, S. Davis, A. N. Osipov, A. Rosengren, and B. Johansson  
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*Isotope effect on superconductivity in Josephson coupled stripes in underdoped cuprates*  
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*Melting of Fe and  $Fe_{0.9375}Si_{0.0625}$  at Earth's core pressures studied using ab initio molecular dynamics.*  
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*Water Corrodes Copper*  
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