

List of Publications

Books, Book Chapters, and Review Articles

1. *Quantum Dot Spintronics: Fundamentals and Applications*, A. Ludwig, B. Sothmann, H. Höpfner, N.C. Gerhardt, J. Nannen, T. Kümmell, J. König, M.R. Hofmann, G. Bacher, and A.D. Wieck, in “Magnetic Nanostructures”, Eds. H. Zabel *et al.*, Springer Tracts in Modern Physics **246**, Springer, 235-268 (2013).
2. *Manipulating Single Spins in Quantum Dots Coupled to Ferromagnetic Leads*, M. Braun, J. König, and J. Martinek, in “CFN Lectures on Functional Nanostructures - Vol. 2”, Eds. Chr. Röthig *et al.*, Lecture Notes in Physics **820**, Springer, 103-124 (2011).
3. *Single-Electron Tunneling in Small Molecules*, M.R. Wegewijs, M.H. Hettler, C. Romeike, A. Thielmann, K. Nowack, and J. König, in “Introducing Molecular Electronics”, Eds. G. Cuniberti *et al.*, Lecture Notes in Physics **680**, Springer, 207-228 (2005).
4. *Quantum Dots Attached to Ferromagnetic Leads: Exchange Field, Spin Precession, and Kondo Effect*, J. König, J. Martinek, J. Barnaś, and G. Schön, in “CFN Lectures on Functional Nanostructures”, Eds. K. Busch *et al.*, Lecture Notes in Physics **658**, Springer, 145-164 (2005).
5. *Ferromagnetism in (III,Mn)V Semiconductors*, J. König, J. Schliemann, T. Jungwirth, and A.H. MacDonald, in “Electronic Structure and Magnetism of Complex Materials”, Eds. D.J. Singh and D.A. Papaconstantopoulos, Springer Series in Material Sciences **54**, Springer, 163-211 (2003).
6. *Theory of Ferromagnetism in Diluted Magnetic Semiconductors*, J. König, H.H. Lin, and A.H. MacDonald, in “Interacting Electrons in Nanostructures”, Eds. R. Haug and H. Schoeller, Lecture Notes in Physics **579**, Springer, 195 - 212 (2001).
7. *Quantum Fluctuations in the Single-Electron Transistor*, J. König, Dissertation, ISBN 3-8265-4696-2, Shaker Verlag, Aachen, 1999.

Regular Articles and Invited Conference Papers

8. *How to get from static to dynamic electromagnetism*, J. König, arXiv:2101.10111.

9. *Real-Time Diagrammatic Theory of Electron Waiting Time Distributions: Interaction Effects and Higher-Order Tunneling Processes*, P. Stegmann, B. Sothmann, J. König, and C. Flindt, arXiv:2004.12603.
10. *Newton series expansion of bosonic operator functions*, J. König and A. Hucht, SciPost Phys. **10**, 007 (2021).
11. *Multilevel Coherences in Quantum Dots*, M. Maurer, J. König, and H. Schoeller, Phys. Rev. Research **2**, 033440 (2020).
12. *Interaction-induced current asymmetries in resonant transport through interacting quantum-dot spin valves revealed by iterative summation of path integrals*, S. Mundinar, A. Hucht, J. König, and S. Weiss, Phys. Rev. B **102**, 045404 (2020).
13. *Relaxation dynamics in a Hubbard dimer coupled to fermionic baths: phenomenological description and its microscopic foundation*, E. Kleinherbers, N. Szpak, J. König, and R. Schützhold, Phys. Rev. B **101**, 125131 (2020).
14. *Real-time detection of single Auger recombination events in a self-assembled quantum dot*, P. Lochner, A. Kurzmann, J. Kerski, P. Stegmann, J. König, A.D. Wieck, A. Ludwig, A. Lorke, and M. Geller Nano Lett. **20**, 1631 (2020).
15. *Relaxation dynamics in double-spin system*, P. Stegmann, J. König, and B. Sothmann, Phys. Rev. B **101**, 075411 (2020).
16. *Optical Detection of Single-Electron Tunneling into a Semiconductor*, A. Kurzmann, P. Stegmann, J. Kerski, R. Schott, A. Ludwig, A.D. Wieck, J. König, A. Lorke, and M. Geller, Phys. Rev. Lett. **122**, 247403 (2019).
17. *Iterative path-integral summations for the tunneling magnetoresistance in interacting quantum-dot spin valves*, S. Mundinar, P. Stegmann, J. König, and S. Weiss, Phys. Rev. B **99**, 195457 (2019).
18. *Revealing attractive electron-electron interaction in a quantum dot by full counting statistics*, E. Kleinherbers, P. Stegmann, and J. König, New. J. Phys. **20**, 073023 (2018).
19. *Coherent dynamics in stochastic systems revealed by full counting statistics*, P. Stegmann, J. König, and S. Weiss, Phys. Rev. B **98**, 035409 (2018).

20. *Odd-triplet superconductivity in single-level quantum dots*,
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21. *Thermal Conductance of a Single-Electron Transistor*,
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22. *Inverse Counting Statistics Based on Generalized Factorial Cumulants*,
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23. *Violation of detailed balance for charge-transfer statistics in Coulomb-blockade systems*,
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24. *Short-Time Counting Statistics of Charge Transfer in Coulomb-Blockade Systems*,
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29. *Mesoscopic Diffusion Thermopower in Two-Dimensional Electron Gases*,
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30. *Spin Pumping through Quantum Dots*,
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31. *Asymmetry of Charge Relaxation Times in Quantum Dots: The Influence of Degeneracy*,
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32. *Josephson-Majorana Cycle in Topological Single-Electron Hybrid Transistors*,
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38. *Current Fluctuations of Noncollinear Single-Electron Spin-Valve Transistors*,
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39. *Transverse Rectification in Density-Modulated Two-Dimensional Electron Gases*,
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65. *Real-Time Diagrammatic Approach to Transport through Interacting Quantum Dots with Normal and Superconducting Leads*,
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