

List of Publications of Peter Hänggi

Books and Proceedings

1. *Rate Processes in Dissipative Systems: 50 Years after Kramers*, P. Hänggi and J. Troe, eds., *Berichte der Bunsengesellschaft*, vol. **95**, no. 3: 225-442, Wiley-VCH, Weinheim (1991)
2. *Activated Barrier Crossing*, G. R. Fleming and P. Hänggi, eds., World Scientific, London (1993), ISBN 981-02-1372-7
3. *Stochastic Resonance in Physics and Biology*, A. Bulsara, P. Hänggi, F. Marchesoni, F. Moss, and M. Shlesinger, eds., *Proceedings of the NATO Advanced Research Workshop, J. Stat. Phys.*, vol. **70**, no. 1-2: 1-514 (1993)
4. *New Trends in Kramers Reaction Rate Theory*, P. Talkner and P. Hänggi, eds., Kluwer Academic Publishers, Boston, London (1995), ISBN 0-7923-2940-6
5. *Driven Quantum Systems*, W. Domcke, P. Hänggi, and D. Tannor, eds., *Special Issue: Chemical Physics*, vol. **217**, no. 2-3: 117-416 (1997)
6. *Quantum Transport and Dissipation*, T. Dittrich, P. Hänggi, G.-L. Ingold, B. Kramer, G. Schön, and W. Zwerger, Wiley-VCH, Weinheim (1998), ISBN 3-527-29261-6
7. *Processes in molecular wires*, P. Hänggi, M. Ratner, and S. Yaliraki, eds., *Special Issue: Chemical Physics*, vol. **281**, no. 2-3: 111-504 (2002)
8. *Stochastic Systems: From randomness to complexity*, P. Hänggi and F. Marchesoni, eds., *Special Issue: Physica A*, vol. **325**, no. 1-2: 1-296 (2003)
9. *Noise in Biophysical Systems*, A. Neimann, P. Hänggi, P. Jung, and L. Schimansky-Geier, eds., *Special Issue: Fluctuation Noise Letters*, vol. **4**, no. 1: 1-236 (2004)
10. *Focus Issue: Brownian Motion and Diffusion in the 21st Century*, P. Hänggi, J. Luczka, and P. Talkner, eds., *New Journal of Physics*, vol. **7** (2005)
11. *100 Years of Brownian Motion*, P. Hänggi and F. Marchesoni, eds., *Special Issue, Chaos*, vol. **15**, no. 2: 026101 (2005)
12. *New Horizons in Stochastic Complexity*, P. Hänggi, A. Alvarez-Chillida, and M. Morillo Buzon, eds., *Special Issue: Physica A*, vol. **351** (2005)
13. *XVIII Marian Smoluchowski Symposium on Statistical Physics*, E. Gudowska-Nowak, P. Hänggi, and J. Luczka, eds., *Acta Physica Polonica B*, vol. **37** (2006)

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- P. Hänggi, P. Talkner, and M. Borkovec
Reaction Rate Theory: Fifty Years After Kramers
Rev. Mod. Phys. **62**, 251–342 (1990)
- L. Gammaitoni, P. Hänggi, P. Jung, and F. Marchesoni
Stochastic Resonance
Rev. Mod. Phys. **70**, 223–288 (1998)

- P. Hänggi and F. Marchesoni
Artificial Brownian motors: Controlling transport on the nanoscale
Rev. Mod. Phys. **81**, 387–442 (2009)

Physics Reports:

- P. Hänggi and H. Thomas
Stochastic Processes: Time-Evolution, Symmetries and Linear Response
Phys. Rep. **88**, 207–319 (1982)
- M. Grifoni and P. Hänggi
Driven Quantum Tunneling
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- S. Kohler, J. Lehmann, and P. Hänggi
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- J. Dunkel and P. Hänggi
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- P. Hänggi and P. Jung
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- I. Goychuk and P. Hänggi
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- P. Hänggi
Stochastic Resonance in Biology
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- P. S. Burada, P. Hänggi, F. Marchesoni, G. Schmid, and P. Talkner
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in: **Fluctuations and Sensitivity in Nonequilibrium Systems**, W. Horsthemke and D. K. Kondepudi, eds.
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- F. Marchesoni, P. Hänggi, and P. Sodano
A Langevin Equation Approach to Sine Gordon Soliton Diffusion with Application to Nucleation Rates
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Phasenübergänge und Renormierung in der Physik
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18. T. Dittrich, F. Grossmann, P. Hänggi, B. Oelschlägel, and R. Utermann
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19. P. Hänggi
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20. M. Grifoni and P. Hänggi
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38. P. Hänggi and I. Goychuk
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43. R. M. Yulmetyev, S. A. Demin, and P. Hänggi
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