

# 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)

## Reviews

### Reviews of Modern Physics:

- 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)
- M. Campisi, P. Hänggi, and P. Talkner  
*Colloquium: Quantum fluctuation relations: Foundations and applications*  
Rev. Mod. Phys. **83**, 771–791 (2011)
- M. Campisi, P. Hänggi, and P. Talkner  
*Addendum and Erratum: Quantum fluctuation relations: Foundations and applications*  
Rev. Mod. Phys. **83**, 1653 (2011)
- N. Li, J. Ren, L. Wang, G. Zhang, P. Hänggi, and B. W. Li  
*Colloquium: Phononics: manipulating heat flow with electronic analogs and beyond*  
Rev. Mod. Phys. **84**, 1045–1066 (2012)
- P. Talkner and P. Hänggi  
*Colloquium: Statistical Mechanics and Thermodynamics at Strong Coupling: Quantum and Classical*  
Rev. Mod. Phys. **92**, 041002 (2020)

### 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*  
Phys. Rep. **304**, 229–354 (1998)
- S. Kohler, J. Lehmann, and P. Hänggi  
*Driven quantum transport on the nanoscale*  
Phys. Rep. **406**, 379–443 (2005)
- J. Dunkel and P. Hänggi  
*Relativistic Brownian motion*  
Phys. Rep. **471**, 1–73 (2009)
- S. Denisov, S. Flach, and P. Hänggi  
*Tunable transport with broken space-time symmetries*  
Phys. Rep. **538**, 77–120 (2014)
- D. Hennig, C. Mulhern, L. Schimansky-Geier, G. P. Tsironis, and P. Hänggi  
*Cooperative surmounting of bottlenecks*  
Phys. Rep. **586**, 1–51 (2015)

### Advances in Chemical Physics:

- P. Hänggi and P. Jung  
*Colored Noise in Dynamical Systems*  
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### Advances in Physics:

- I. Goychuk and P. Hänggi  
*Quantum dynamics in strong fluctuating fields*  
Adv. Physics **54**, 525–584 (2005)

### ChemPhysChem:

- P. Hänggi  
*Stochastic Resonance in Biology*  
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- P. S. Burada, P. Hänggi, F. Marchesoni, G. Schmid, and P. Talkner  
*Diffusion in confined geometries*  
ChemPhysChem **10**, 45–54 (2009)

### NATO ASI Vol. 291:

- P. Hänggi  
*Control of Tunneling*  
in: **Quantum Dynamics of Submicron Structures**, H. Cerdeira, G. Schön, and B. Kramer, eds.  
NATO ASI Series E, vol. **291**, pp. 673–686, Kluwer Publ., Boston (1995)

### Lecture Notes in Physics:

- T. Dittrich, P. Hänggi, B. Oelschlägel, and R. Utermann  
*Driven Tunneling: New Possibilities for Coherent and Incoherent Quantum Transport*  
in: **25 Years of Non-Equilibrium Statistical Mechanics**, J. Brey, J. Marro, M. Rubi, and M. San Miguel, eds.  
Lecture Notes in Physics, vol. **445**, pp. 269–281, Springer-Verlag, Berlin, Heidelberg, New York (1995)
- P. Hänggi and R. Bartussek  
*Brownian Rectifiers: How to Convert Brownian Motion into Directed Transport*  
in: **Nonlinear Physics of Complex Systems – Current Status and Future Trends**, J. Parisi, S. C. Müller, and W. Zimmermann, eds.  
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- P. Hänggi  
*Generalized Langevin Equations: A Useful Tool for the Perplexed Modeller of Nonequilibrium Fluctuations?*  
in: **Stochastic Dynamics**, L. Schimansky-Geier and T. Pöschel, eds.  
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- P. Reimann and P. Hänggi  
*Surmounting Fluctuating Barriers: Basic Concepts and Results*  
in: **Stochastic Dynamics**, L. Schimansky-Geier and T. Pöschel, eds.  
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- C. Van den Broeck, P. Reimann, R. Kawai, and P. Hänggi  
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- P. Hänggi, S. Kohler, and T. Dittrich  
*Driven Tunneling: Chaos and Decoherence*  
in: **Statistical and Dynamical Aspects of Mesoscopic Systems**, D. Reguera, G. Platero, L. L. Bonilla, and J. M. Rubi, eds.  
Lecture Notes in Physics, vol. **547**, pp. 125–157, Springer, Berlin, Heidelberg, New York (1999)
- S. J. Linz, M. Raible, and P. Hänggi  
*Stochastic field equation for amorphous surface growth*  
in: **Stochastic Processes in Physics**, J. Freund and T. Pöschel, eds.  
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- I. Goychuk and P. Hänggi  
*Directed current without dissipation: reincarnation of a Maxwell-Loschmidt-demon*  
in: **Stochastic Processes in Physics**, J. Freund and T. Pöschel, eds.  
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- G. Schmid, I. Goychuk, and P. Hänggi  
*Membrane clusters of ion channels: Size effects for stochastic resonance*  
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- G.-L. Ingold, A. Wobst, C. Aulbach, and P. Hänggi  
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in: **Anderson Localization and its Ramifications**, T. Brandes and S. Kettmann, eds.  
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- P. Hänggi, S. Kohler, J. Lehmann, and M. Strass  
*AC-driven transport through molecular wires*  
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- L. Wang, N. Li, and P. Hänggi  
*Simulation of heat transport in low-dimensional oscillator lattices*  
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Lecture Notes in Physics, vol. **921**, pp. 239–274, Springer-Verlag, Berlin, Heidelberg, New York (2016)

#### Springer Proceedings in Physics:

- P. Hänggi  
*Bistable Flows Driven by Colored Noise*  
in: **Fluctuations and Sensitivity in Nonequilibrium Systems**, W. Horsthemke and D. K. Kondepudi, eds.  
Springer Proc. Phys., vol. **1**, pp. 95–103, Springer-Verlag, Berlin (1984)
- F. Marchesoni, P. Hänggi, and P. Sodano  
*A Langevin Equation Approach to Sine Gordon Soliton Diffusion with Application to Nucleation Rates*  
in: **Universalities in Condensed Matter Physics**, R. Jullien, L. Peliti, R. Rammal, and N. Boccara, eds.  
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#### Lecture Notes in Computational Science and Engineering:

- S. J. Linz, M. Raible, and P. Hänggi  
*Morphogenesis of Growing Amorphous Films*  
in: **Interface and Transport Dynamics: Computational Modelling**, H. Emmerich, B. Nestler, and M. Schreckenberg, eds.  
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#### Yearbook of the University of Augsburg:

- P. Hänggi  
*Phasenübergänge und Renormierung in der Physik*  
in: **Jahrbuch der Universität Augsburg 1988**, pp. 213–220, Universität Augsburg (1989)

## Articles in Books and Proceedings

1. P. Hänggi and H. Thomas  
*Master Equation and Fluctuation-Theorems*  
in: **Int. Conf. Stat. Phys.**, A. Kiado, ed., pp. 178–179, Budapest (1975)
2. P. Hänggi  
*The Functional Derivative and its Use in the Description of Noisy Dynamical Systems*  
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3. P. Hänggi, H. Grabert, and U. Weiss  
*Dissipative Quantum Decay at Finite Temperatures*  
in: **Stochastic Processes Applied to Physics**, L. Pesquera and M. Rodriguez, eds., pp. 244–248, World Scientific, U.S.-distr., Heyden, Philadelphia (1985)
4. P. Hänggi  
*Reaction Rates and Friction: Classical Activation and Quantum Tunneling*  
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5. P. Hänggi and F. Moss  
*Optical Instabilities Driven by Colored Noise*  
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6. P. Hänggi, F. Moss, and P. V. E. McClintock  
*Bistability Driven by Colored Noise: Theory and Experiment*  
in: **Noise in Physical Systems and 1/f Noise**, A. D’Amico and P. Mazzetti, eds., pp. 121–124, North Holland, Amsterdam (1986)
7. P. Hänggi  
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in: **Uni-Press**, 1, pp. 6–9, Universität Augsburg (1987)
8. P. Talkner and P. Hänggi  
*Discrete Dynamics and Metastability: Mean First Passage Times and Escape Rates*  
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9. P. Hänggi, *Colored Noise in Continuous Dynamical Systems: A Functional Calculus Approach*, in: *Noise in Nonlinear Dynamical Systems*, F. Moss and P. V. E. McClintock, eds., chap. 9, pp. 307–328, Cambridge University Press (1989)
10. P. Talkner and P. Hänggi, *Discrete Dynamics Perturbed by Weak Noise*, in: *Noise in Nonlinear Dynamical Systems*, chap. 5, pp. 87–99, Cambridge University Press (1989)
11. P. Hänggi  
*Dissipative Quantum Tunneling at Finite Temperatures*  
in: **Noise and Chaos in Nonlinear Dynamical Systems**, F. Moss, L. A. Lugiato, and W. Schleich, eds., pp. 187–206, Cambridge University Press (1990)
12. P. Hänggi  
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in: **Quantum Fluctuations in Mesoscopic and Macroscopic Systems**, H. A. Cerdeira, F. Guinea Lopez, and U. Weiss, eds., pp. 73–96, World Scientific, Singapore, London, Hong Kong (1991)

13. P. Hänggi  
*Path Integral Approach to Interaction and Tunneling Times*  
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14. P. Hänggi  
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15. P. Hänggi  
*Barrier Crossing at Low Temperatures*  
in: **Activated Barrier Crossing**, G. R. Fleming and P. Hänggi, eds., pp. 268–292, World Scientific, Singapore, London, Hong-Kong (1993)
16. P. Hänggi and C. Zerbe  
*Dissipative Quantum Noise in a Parametric Oscillator*  
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17. R. Bartussek, P. Jung, and P. Hänggi  
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18. T. Dittrich, F. Grossmann, P. Hänggi, B. Oelschlägel, and R. Utermann  
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20. M. Grifoni and P. Hänggi  
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21. J. Luczka, P. Hänggi, and T. Czernik  
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22. P. S. Riseborough and P. Hänggi  
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24. W. Hager, S. J. Linz, and P. Hänggi  
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30. M. Grifoni, M. Thorwart, and P. Hänggi  
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*Reaction Rates when Barriers fluctuate: A Path Integral Approach*  
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34. P. Hänggi  
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*Excitable membranes: Channel noise, synchronization and stochastic resonance*  
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*Decoherence in resonantly driven bistable systems*  
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