

Globally coupled reaction-diffusion systems of activator-inhibitor type

- [1] M. Kehrt, P. Hövel, V. Flunkert, M. A. Dahlem, P. Rodin, and E. Schöll: *Stabilization of complex spatio-temporal dynamics near a subcritical Hopf bifurcation by time-delayed feedback*, Eur. Phys. J. B **68**, 557 (2009).
- [2] N. Majer and E. Schöll: *Resonant control of stochastic spatio-temporal dynamics in a tunnel diode by multiple time delayed feedback*, Phys. Rev. E **79**, 011109 (2009).
- [3] E. Schöll, N. Majer, and G. Stegemann: *Extended time delayed feedback control of stochastic dynamics in a resonant tunneling diode*, phys. stat. sol. (c) **5**, 194 (2008).
- [4] E. Schöll, J. Hizanidis, P. Hövel, and G. Stegemann: *Pattern formation in semiconductors under the influence of time-delayed feedback control and noise*, in *Analysis and control of complex nonlinear processes in physics, chemistry and biology*, edited by L. Schimansky-Geier, B. Fiedler, J. Kurths, and E. Schöll (World Scientific, Singapore, 2007), pp. 135–183.
- [5] G. Stegemann and E. Schöll: *Two-dimensional spatiotemporal pattern formation in the double-barrier resonant tunneling diode*, New J. Phys. **9**, 55 (2007).
- [6] G. Stegemann, A. G. Balanov, and E. Schöll: *Delayed feedback control of stochastic spatiotemporal dynamics in a resonant tunneling diode*, Phys. Rev. E **73**, 016203 (2006).
- [7] G. Stegemann, A. G. Balanov, and E. Schöll: *Noise-induced pattern formation in a semiconductor nanostructure*, Phys. Rev. E **71**, 016221 (2005).
- [8] J. Unkelbach, A. Amann, W. Just, and E. Schöll: *Time-delay autosynchronization of the spatiotemporal dynamics in resonant tunneling diodes*, Phys. Rev. E **68**, 026204 (2003).
- [9] W. Just, S. Popovich, A. Amann, N. Baba, and E. Schöll: *Improvement of time-delayed feedback control by periodic modulation: Analytical theory of Floquet mode control scheme*, Phys. Rev. E **67**, 026222 (2003).
- [10] N. Baba, A. Amann, E. Schöll, and W. Just: *Giant improvement of time-delayed feedback control by spatio-temporal filtering*, Phys. Rev. Lett. **89**, 074101 (2002).
- [11] O. Beck, A. Amann, E. Schöll, J. E. S. Socolar, and W. Just: *Comparison of time-delayed feedback schemes for spatio-temporal control of chaos in a reaction-diffusion system with global coupling*, Phys. Rev. E **66**, 016213 (2002).
- [12] F. Plenge, P. Rodin, E. Schöll, and K. Krischer: *Breathing current domains in globally coupled electrochemical systems: A comparison with a semiconductor model*, Phys. Rev. E **64**, 056229 (2001).
- [13] M. Meixner, P. Rodin, E. Schöll, and A. Wacker: *Lateral current density fronts in globally coupled bistable semiconductors with S- or Z-shaped current voltage characteristic*, Eur. Phys. J. B **13**, 157 (2000).
- [14] G. Franceschini, S. Bose, and E. Schöll: *Control of chaotic spatiotemporal spiking by time-delay autosynchronisation*, Phys. Rev. E **60**, 5426 (1999).

- [15] A. Alekseev, S. Bose, P. Rodin, and E. Schöll: *Stability of current filaments in a bistable semiconductor system with global coupling*, Phys. Rev. E **57**, 2640 (1998).
- [16] S. Bose, A. Wacker, and E. Schöll: *Bifurcation scenarios of spatio-temporal spiking in semiconductor devices*, Phys. Lett. A **195**, 144 (1994).
- [17] A. Wacker and E. Schöll: *Spiking in an activator-inhibitor model for elements with S-shaped negative differential conductivity*, Z. Phys. B **93**, 431 (1994).