

Personal Information

- Name: **Gang Zhao**
- Date of birth: 01.26.1978
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Education:

Doctor of Philosophy, Chemical Physics, University of Science and Technology of China, 2006

Bachelor of Science, Chemical Physics, University of Science and Technology of China, 1998

Research Career:

Institute of Complex Biodynamics in Jiangxi Blue Sky University (China), 2006~

Refereed Publications:

1. Zhang, L. & Zhao, G. Superiority of single covalent modification in specificity: From deterministic to stochastic viewpoint. **Journal of Theoretical Biology** **264**, 1111-1119 (2010)
2. Zhao, G. Probability of entrainment, synaptic modification and entrained phase are phase-dependent in STDP, **Journal of Biological Systems** **18(2)**, 479-493(2010)
3. Zhao, G. Phase organization of circadian oscillators in extended gate and oscillator models. **Journal of Theoretical Biology** **264**, 367-376 (2010)
4. Ruan, Y. & Zhao, G. Comparison and Regulation of Neuronal Synchronization for Various STDP Rules. **Neural Plasticity Volume 2009**, Article ID 704075, 12 pages
5. Zhao, G., Hou, Z. & Xin, H. Canard explosion and internal signal stochastic bi-resonance in the CO oxidation on platinum surface. **Science in China Series B: Chemistry** **49**,

- 133-139 (2006).
6. Zhao, G., Hou, Z. & Xin, H. Frequency-selective response of FitzHugh-Nagumo neuron networks via changing random edges. **Chaos** **16**, 043107 (2006).
 7. Zhao, G., Hou, Z. & Xin, H. Canard explosion and coherent biresonance in the rate oscillation of CO oxidation on platinum surface. **The Journal of Physical Chemistry. A** **109**, 8515-8519 (2005).
 8. Zhao, G., Hou, Z. & Xin, H. Frequency-selective response of periodically forced coupled FHN models via system size multi-resonance. **Physical Chemistry Chemical Physic.** **7**, 3634-3638 (2005).
 9. Zhao, G. & Xin, H. Traveling chaos wave in coupled map lattices with complete unidirectional coupling. **Physics Letters A** **268**, 181-185 (2000).

Papers in review

1. Zhao, G. Initial-state sensitive entrainment and different entrainment dynamics induced by spike timing dependent plasticity

Research Interests

- Dynamics of molecular networks involved in cellular functions, such as synaptic plasticity and circadian clock

Referees

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