

## **PUBLICATIONS**

1. Kadar, S., Wang, J., Showalter, K., "Noise Supported Traveling Waves in Subexcitable Media," *Nature*, **391**, pp 770-771 (1998).  
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2. Kadar, S., Amemiya, T., Showalter, K., "Reaction Mechanism for Light-Sensitivity of the  $Ru(bpy)_3^{2+}$ -catalyzed Belousov-Zhabotinsky Reaction," *J. Phys. Chem.*, **101**, pp. 8200-8206 (1997).
3. Kadar, S., Lengyel, I., Epstein, I.R., "Modeling of Transient Turing-Type Patterns in the Closed, Chlorine Dioxide-Iodine-Malonic Acid-Starch Reaction System," *J. Phys. Chem.*, **99**, Iss 12, pp 4054-4058 (1995).
4. Boga, E., Kadar, S., Peintler, G., Nagypal, I., "Effect of Magnetic-Fields on a Propagating Reaction Front," *Nature*, **347**, Iss 6295, pp 749-751 (1990).
5. Lengyel, I., Kadar, S., Epstein, I.R., "Quasi-2-Dimensional Turing Patterns in an Imposed Gradient," *Phys. Rev. Lett.*, **69**, Iss 18, pp 2729-2732(1992).
6. Epstein, I.R., Lengyel, I., Kadar, S., Kagan, M., Yokoyama, M., "New Systems for Pattern-Formation Studies," *Physica A*, **188**, Iss 1-3, pp 26-33 (1992).
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9. Jung, P., Cornell-Bell, A., Moss, F., Kadar, S., Wang, J., Showalter, K., "Noise Sustained Waves in Subexcitable Media: From Chemical Waves to Brain Waves," *Chaos*, **8**(3), pp 567-575(1998).
10. Amemiya, T., Kettunen, P., Kadar, S., Yamaguchi, T., Showalter, K., "Formation and Evolution of Scroll Waves in Photosensitive Excitable Media," *Chaos*, **8**(4), pp1(1998).
11. Amemiya, T., Ohmori, T., Nakaiwa, M., Yamaguchi, T., "Two-parameter stochastic resonance in a model of the photosensitive Belousov-Zhabotinsky reaction in a flow system," *J. Phys. Chem A*, **102**(24), pp 4537-4542(1998).

12. Wang, J., Kadar, S., Showalter, K., “*Spiral Waves and Avalanche Behavior in Noisy Subexcitable Media,*” *Phys. Rev. Lett.*, **82**, pp855-858(1999) .
13. Kadar, S. “*Adaptation of the Inquiry Oriented S-C-I-E-N-C-E Framework in a Heavily Technology Based Environment*” (poster presentation), “Integrating Science and Mathematics Education Research into Teaching”, The University of Maine, Orono, Maine (October 25-28, 2008)
14. Kadar, S., Stout, W. “*When Activity-Based Instruction, Math Concepts, and Educational Technology Meet*” (poster presentation), “Integrating Science and Mathematics Education Research into Teaching”, The University of Maine, Orono, Maine (October 25-28, 2008)
15. Borges, A., Symington, S., Kadar, S. “*An exploration of a Comprehensive Mechanism for Intracellular Calcium Oscillations*” SURF Conference, URI, North Kingstown, Rhode Island (August, 2008)
16. Borges, A., Beltramini, A., Symington, S., Kadar, S. “*An exploration of a Comprehensive Mechanism for Intracellular Calcium Oscillations*” NERDS Conference, RWU, Bristol, Rhode Island (December, 2008)
17. Borges, A., Osborne, J., Kadar, S., Symington, S., “*Modelling Catecholamine Secretion Using a Comprehensive Mechanism for Intracellular Calcium Oscillations*” RIACS Poster Session, RIC, Providence, Rhode Island (April, 2009)
18. Diss, P., Borges, A., Kadar, S. “*Modeling Intracellular Calcium Dynamics of a Two-Cell System with Stochastic Resonance*” SURF Conference, URI, North Kingstown, Rhode Island (August, 2010)
19. Borges, A., Salter, D., Symington, S., Kadar, S. “*Modeling Catecholamine Secretion Using a Comprehensive Mechanism for Intracellular Calcium Oscillations*” SURF Conference, URI, North Kingstown, Rhode Island (August, 2009)
20. Borges, A., Salter, D., Symington, S., Kadar, S. “*Modeling Catecholamine Secretion Using a Comprehensive Mechanism for Intracellular Calcium Oscillations*” NERDS Conference, RWU, Bristol, Rhode Island (December, 2009)
21. Borges, A., Salter, D., Symington, S., Kadar, S. “*Validation of an in Silico Mathematical Model Used to Predict Internal Calcium Dynamics and Assess the Physiological Consequences of Extracellular Stimuli on PC12 Cells*” SURF Conference, URI, North Kingstown, Rhode Island (August, 2010)

22. Borges, A., Odobasic, J., Salter, D., Symington, S., Kadar, S. “*Experimental and Numerical Study of Environmental Noise-Induced Stochastic Resonance in PC12 Cells*,” National Meeting of ACS, San Francisco, California (March 22-26, 2010)