This Week in Science

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Frontiers in Chemistry: J. I. Brauman

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Frontiers in Chemistry

Volammetry with Microscopic Electrodes in New Domains: R. M. Wightman
The Interplay Between Chemistry and Biology in the Design of Enzymatic Catalysts: P. G. Schultz
Probing Structure-Function Relations in Heme-Containing Oxygenases and Peroxidases: J. H. Dawson
Intramolecular Long-Distance Electron Transfer in Organic Molecules: G. L. Closs and J. R. Miller
The Vibrational Spectroscopy and Dynamics of Weakly Bound Neutral Complexes: R. E. Miller
Chemical Waves: J. Ross, S. C. Müller, C. Vidal
The singular properties of the core region and the rotation center of the spiral wave in the Belousov-Zhabotinsky reaction are shown in three-dimensional perspective. The image was obtained by an overlay of a large number of single snapshots of spiral rotation covering three full revolutions. It presents the upper envelope of the concentration variation, that is the maximum level of oxidation of the catalyst ferroin reached at each point in space. The envelope is shown in arbitrary pseudo colors. See page 460. [S. C. Müller, Th. Plessner, and B. Hess, Max-Planck-Institut für Ernährungsphysiologie, D-4600 Dortmund, Federal Republic of Germany]