



The EUChemSoc Societies have taken the significant step into the future by merging their traditional journals, to form two leading chemistry journals, the European Journal of Inorganic Chemistry and the European Journal of Organic Chemistry. Three further EUChemSoc Societies (Austria, Czech Republic and Sweden) are Associates of the two journals.

COVER PICTURE

The cover picture shows four substrates (Cl⁻, Br⁻, I⁻, and dimethyl sulfide) that all pass through nearly identical transition states when oxidized by (hydroperoxido)(oxido)vanadium(V) 2,2'-[(2hydroxyethyl)imino]diacetate [VO(OOH)Hheida]. The differences in the physical properties of the substrate are represented by the changes in the color scheme for each panel. Despite the different "colors", certain features of the transition states are always maintained, such as: nearly linear substrate peroxo oxygen bond angles, nucleophilic attack of the substrate on the unprotonated peroxo oxygen atom, and nearly complete hydroperoxo oxygen bond. This work lays the foundation for the development of more effective and potentially stereoselective catalysts based on the biomimetic catalyst V(OOH)Hheida. Details of this computational study can be found in the article by V. L. Pecoraro, and L. De Gioia on p. 515ff.

