



SEX, DRUG AND VIOLENCE IN INSECTS

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ABSTRACT

Insect world is a world of sex, drugs and violence. Chemical weapons may be forbidden in human warfare; however, the use of such arsenal is a way life for insects. All these interactions mediated by chemicals. Results from several case studies will be discussed to exemplify this fact.

METAL OXIDES: CRYSTAL GAZING ON THE ATOMIC SCALE

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ABSTRACT

Metal oxides constitute one of the most fascinating classes of inorganic solids, exhibiting a very wide variety of structures, properties and phenomena. These provide an excellent case study in solid state chemistry. The presentation will describes structural studies, using a combination high resolution synchrotron X-ray and neutron diffraction, and atomic simulation of number oxides. Special attentions will be given to materials that have ferroelectrics and potential to be applied as SOFC electrode and electrolyte.