

Oxford Catalysis Network



The Oxford Catalysis Network brings together expertise in catalysis from across the Department of Chemistry and the wider University.

- Directory of expertise in catalytic science across the Mathematical, Physical and Life Sciences Division
- Catalysis themed meetings and conferences
- Graduate training in catalysis
- Promote catalysis science

The Network includes expertise in homo- and heterogeneous transition metal catalysis, organo-catalysis, bio-catalysis, and catalysis applied to the new materials.

A catalyst accelerates a chemical transformation. Applications of catalysis, based on this simple definition, are estimated to be worth £700 billion worldwide and impact on issues such as energy, pollution control, sustainability and chemical manufacture.

Catalysis research at Oxford encompasses a wide variety of areas and includes the design of new catalysts and catalytic processes of relevance to the pharmaceutical, agrochemical, fine chemical and petrochemical industries. Mechanism-guided catalyst design, polymerization catalysis, electrocatalysis, application to chemical biology and complex molecule synthesis, biocatalysis, organocatalysis, transition metal catalysis and catalysis as applied to new energy vectors and sustainability are just some of the areas being explored by research groups at Oxford.

The Oxford Catalysis Network (OCN) aims to bring all of these research strands together to promote all aspects of catalysis science across Oxford.

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