

Research Opportunities at the School of Chemistry

Our School has four core research themes:

- Sustainable Synthesis and Catalysis
- Chemical Biology
- Materials and Interfaces
- Analytical Chemistry

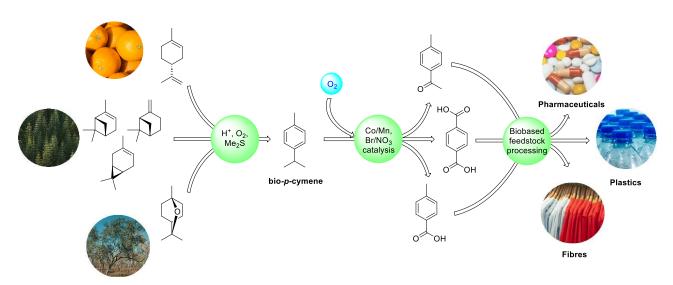
Take a look through the work of the different research groups within each theme. If you are interested in applying for a PhD position, then contact the PI for help with your application!

Sustainable Synthesis and Catalysis



<u>Catalytic Upgrading of Biorenewables</u>

Prof. Steve Bull – sdb45@leicester.ac.uk

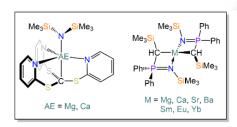


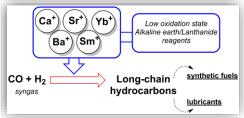




Synthetic and Catalytic Applications of Earth Abundant Metals

<u>Dr. Fabrizio Ortu</u> – Fabrizio.ortu@leicester.ac.uk

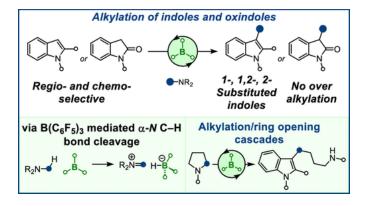






Novel Synthetic Methodology

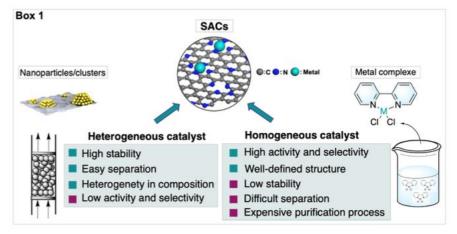
Dr. Alex Pulis - a.pulis@leicester.ac.uk





Single Atom Catalysts for Fine Chemical Synthesis

<u>Dr. Qun Cao</u> – pc52@leicester.ac.uk

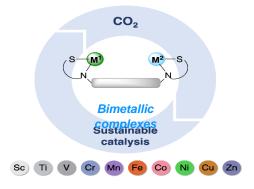






Bioinspired Catalytic Small Molecule Activation

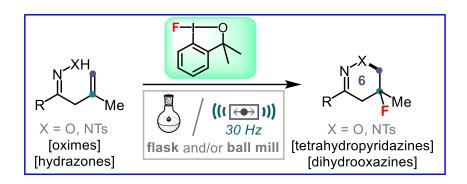
<u>Dr. Sandy Kilpatrick</u> – sandy.kilpatrick@leicester.ac.uk





Novel Methodology for Fluorination of Organic Small Molecules

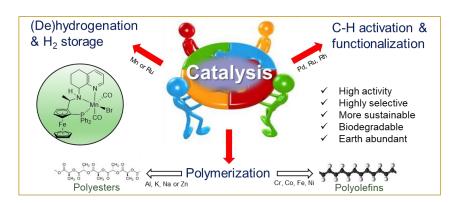
<u>Dr. Alison Stuart</u> – alison.stuart@leicester.ac.uk





Development of Main Group and Transition Metal Catalysts

Dr. Greg Solan – gas8@leicester.ac.uk



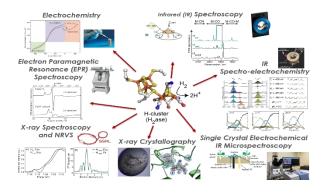


Chemical Biology



Natural and Artificial Metalloenzymes for Energy Conversion

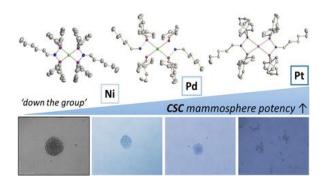
<u>Dr. Patricia Rodriguez-Macia</u> – prm28@leicester.ac.uk





Metallopharmaceuticals

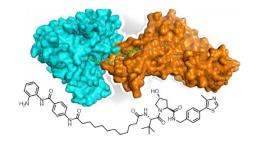
<u>Dr. Rama Suntharalingam</u> – k.suntharalingam@leicester.ac.uk





<u>Heterobifunctional Molecules and Chemical Probes</u>

<u>Dr. James Hodgkinson</u> – jthodgkinson@leicester.ac.uk

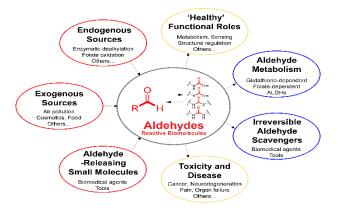






The Chemical Biology of Formaldehyde

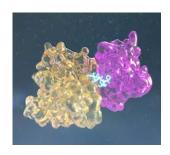
<u>Dr. Richard Hopkinson</u> – richard.hopkinson@leicester.ac.uk

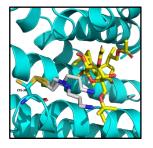




Molecular Glues and Cooperativity in Drug Development

<u>Dr. Richard Doveston</u> – r.g.doveston@leicester.ac.uk

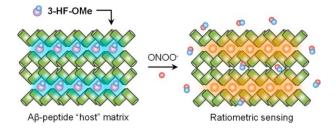






Fluorescent Chemical Probes

Prof. Steve Bull - sdb45@leicester.ac.uk

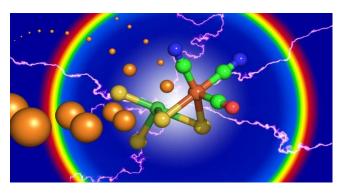






<u>Ultrafast Spectroscopy and Mechanism of Metalloenzymes and</u> <u>Materials for Energy Conversion</u>

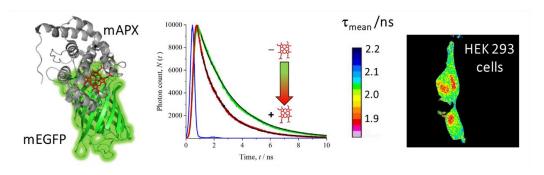
<u>Dr. Phil Ash</u> – philip.ash@leicester.ac.uk





<u>Frontier Technologies in Spectroscopy, Imaging, Photonics and</u> Microfluidics for Solving Problems at the Life Science Interface

Prof. Andrew Hudson - ah242@leicester.ac.uk





Materials and Interfaces



<u>Electrochemistry for Real-World Applications and Environmental</u> <u>Monitoring</u>

Dr. Jake Yang - my216@leicester.ac.uk



<u>Green Chemistry and Materials Processing</u>

<u>Prof. Andy Abbott</u> – apa1@leicester.ac.uk



<u>Electrochemical Deposition and Dissolution Processes; Surface and Interfacial Structure</u>

Prof. Karl Ryder – ksr7@leicester.ac.uk



<u>Interfacial Analysis and Imaging</u>

<u>Prof. Rob Hillman</u> – arh7@leicester.ac.uk



Analytical Chemistry



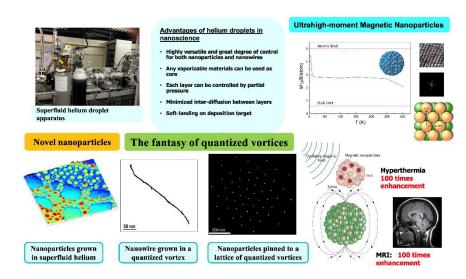
Molecularly Imprinted Polymers for Biosensing and Theranostics

<u>Prof. Sergey Piletsky</u> – sp523@leicester.ac.uk



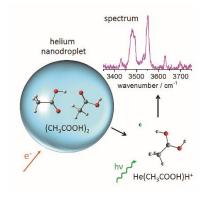
Nanotechnology and Spectroscopy based on Superfluid Helium

Dr. Shengfu Yang - sfy1@leicester.ac.uk



<u>Laser Spectroscopy and Mass Spectrometry of Molecules, Ions and Clusters in Helium Nanodroplets</u>

Prof. Andrew Ellis – andrew.ellis@leicester.ac.uk







<u>Atmospheric Chemistry, Earth Observation Science and Medical</u> <u>Diagnostics</u>

<u>Prof. Paul Monks</u> – p.s.monks@leicester.ac.uk



<u>Novel Functional Materials and Nanomaterials</u>

<u>Dr. Elena Piletska</u> – ep219@leicester.ac.uk