



## 2017 ARC Laureate Fellowships announced

Professor Michelle Coote FRACI CChem (pictured) from the ANU Research School of Chemistry has received the Georgina Sweet Australian Laureate Fellowship for science and technology for a project to establish a new approach to chemical catalysis.

Coote's \$2.3 million fellowship will help establish a new approach to chemical catalysis using the electrostatic effects of pH-switchable charged functional groups.

Using a combination of theory and experiment, she hopes to establish a game-changing approach to controlling chemical reactions, while training the next generation of chemists in the principles of computer-aided chemical design.

'I am particularly pleased to receive the Georgina Sweet Fellowship and see this as an outstanding opportunity help address long-standing gender inequities in chemistry and STEM disciplines generally,' Coote said. 'It will also bring modern cutting-edge solid-state NMR techniques developed overseas to Australia and provide advanced training for Australian NMR researchers.'

Professor Christopher Barner-Kowollik MRACI CChem is a Professor of Materials Science at the Queensland University of Technology and an adjunct research group leader at the

Karlsruhe Institute of Technology. He received his \$3.3 million fellowship award for a project entitled 'Light-induced chemical modularity: a new frontier in macromolecular design'.

Professor Shizhang Qiao FRACI CChem is Chair of Nanotechnology within the School of Chemical Engineering at the University of Adelaide. He received \$2.7 million in funding as a 2017 Laureate Fellow. His research expertise is in nanomaterials and nanoporous materials for new energy technologies, such as electrocatalysis, photocatalysis, batteries, fuel cells and supercapacitors.

Other chemistry-related recipients included:

- Professor George Zhao, a professor within the School of Chemical Engineering at the University of Queensland, and currently a Vice-Chancellor's Research and Teaching Fellow there. His research focus is nanoporous materials for energy and environmental applications
- Professor Gottfried Otting, head of biomolecular NMR spectroscopy at the ANU Research School of Chemistry, for a project designed to have immediate benefits in the design of lead compounds in drug development.

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