

Awarded ...



R. V. Uljin



T. Simpson



C. C. Cummins



R. A. Layfield



R. Luque



C. A. Mirkin

Royal Society of Chemistry Awards 2013

The UK Royal Society of Chemistry (RSC) has announced a number of award winners who will deliver lectures at various locations in the next year, and we present some of our more recent authors here. Other awardees who were recently featured here include **Saiful Islam** (University of Bath; Sustainable Energy Award), **Bert Weckhuysen** (Utrecht University; Bourke Award), **S. C. Edman Tsang** (University of Oxford; Surfaces and Interfaces Award), **Guy C. Lloyd-Jones** (University of Bristol; Physical Organic Chemistry Award), and **Phil S. Baran** (The Scripps Research Institute; Synthetic Organic Chemistry Award).^[1]

Rein V. Uljin (University of Strathclyde) is the recipient of the Norman Heatley Award. Uljin studied at Wageningen University, and received his PhD from the University of Strathclyde in 2001 for work supervised by Barry Moore and Peter Halling (Strathclyde) and Anja Janssen (Wageningen). From 2001–2003, he was a postdoctoral researcher with Sabine Flitsch at the University of Edinburgh, and in 2003, he started his independent career at the University of Manchester. He was made West-CHEM Chair at the University of Strathclyde in 2008. Uljin's research interests are in minimalistic molecular materials, including enzyme-responsive materials, peptide-based nanomaterials, and cell-instructive biomaterials.^[2]

Tom Simpson (University of Bristol) is honored with the Rita and John Cornforth Award. Simpson studied at the University of Edinburgh, and gained his PhD (supervised by Jake Macmillan) from the University of Bristol in 1973. After postdoctoral work in with Stan Holker at the University of Liverpool, and with Arthur Birch at the Australian National University, he was appointed to a lectureship at the University of Edinburgh in 1978, and took up Professorships in Organic Chemistry at the University of Leicester in 1988, and at the University of Bristol in 1990. His research covers all aspects of the chemistry and biosynthesis of microbial natural products.^[3]

Christopher C. Cummins (Massachusetts Institute of Technology) is the winner of the Ludwig Mond Award. Cummins, who was featured here when he received an Humboldt Research Award,^[4a] has reported in *Angewandte Chemie* on complexes with Cr–Cr quintuple bonds.^[4b]

Richard A. Layfield (University of Manchester) has been awarded the Sir Edward Frankland Fellowship. Layfield studied at the University of Leeds, and worked with Dominic S. Wright at the University of Cambridge for his PhD (awarded in 2002). Following a junior research fellowship and a fixed-term lectureship at Cambridge, he moved to the University of Manchester in 2007, and is currently Reader in Inorganic Chemistry. Lay-

field's research involves organometallic chemistry and molecular magnetism, in particular lanthanide single-molecule magnets, iron N-heterocyclic carbene chemistry, and manganese and organolithium chemistry.^[5]

Rafael Luque (Universidad de Córdoba) is the recipient of the Environment, Sustainability and Energy Division Early Career Award. Luque received his PhD in 2005 for work supervised by Juan M. Campelo and Antonio A. Romero at the Universidad de Córdoba. After postdoctoral research with James Clark at the University of York, he was awarded a Ramon y Cajal Fellowship at the Universidad de Córdoba in 2009. Luque is interested in topics such as (nano)materials science, heterogeneous (nano)catalysis, microwave and flow chemistry, biofuels, and green chemical methods.^[6]

Chad A. Mirkin (Northwestern University) was named Chemistry World Entrepreneur of the Year. Mirkin, who was featured here when he won the Esselen Award,^[7a] has recently reported in *Angewandte Chemie* on DNA-programmable nanoparticle superlattices.^[7b] Mirkin is on the editorial or advisory boards of *Angewandte Chemie* and *Chemistry—A European Journal*.

J. Paul Attfield (University of Edinburgh) is the winner of the Peter Day Award. Attfield studied at the University of Oxford, where he worked with Anthony K. Cheetham and Peter D. Battle for his doctorate (awarded in 1987). After a research fellowship at the same institution (1987–1991), and periods as a visiting research scientist with Arthur W. Sleight at DuPont, Wilmington (1985 and 1987), and as maître de conférences with Gérard Ferey at the Université du Maine (1988), he joined the faculty at the University of Cambridge in 1991. He was made Chair of Materials Science at Extreme Conditions at the University of Edinburgh in 2003, and has been Director the Centre for Science at Extreme Conditions since 2008. Attfield's research is centred on the high-pressure synthesis, structural analysis, and measurements of transition-metal-oxide-based solids with novel electronic properties.^[8]

Jonathan Goodman (University of Cambridge) has been honored with the Bader Award. Goodman carried out his PhD (awarded in 1990) with Ian Paterson at the University of Cambridge, and after postdoctoral work with Clark Still at Columbia University, he returned to Cambridge as a research fellow and subsequently joined the faculty there. Goodman's research is focused on the application of computational methods to organic chemistry, including in silico inspired total synthesis, mechanistic analysis, and structural determination.^[9]

Oren Scherman (University of Cambridge) is the winner of the Hickinbottom Award. Scherman studied at Cornell University, Ithaca, and carried

out his PhD (awarded in 2004) with Robert H. Grubbs at the California Institute of Technology. From 2004–2006, he was a postdoctoral researcher with E. W. Meijer and Rint P. Sijbesma at the Eindhoven University of Technology, and in 2006, he started his independent career at the University of Cambridge, where he is currently Reader in Supramolecular and Polymer Chemistry and Director of the Melville Laboratory for Polymer Synthesis. Scherman's research is focused on dynamic supramolecular self-assembly at interfaces, including the application of macrocyclic host–guest chemistry using cucurbit[*n*]urils in the development of supramolecular hydrogels, drug-delivery systems based on dynamic hydrogels, and sensors and catalysts using self-assembled nanophotonic systems.^[10]

M. Christina White (University of Illinois at Urbana-Champaign) is the recipient of the Merck Award. White studied at Smith College, Massachusetts, and Johns Hopkins University, and received her PhD (supervised by Gary H. Posner) from the latter institution in 1998. She then moved to Harvard University as a postdoctoral fellow with Eric N. Jacobsen (1999–2002), and subsequently joined the faculty there. In 2005, she moved to the University of Illinois at Urbana-Champaign, where she is currently Professor of Chemistry. White's research interests are in allylic and aliphatic C–H oxidation reactions.^[11]

John A. Gladysz (Texas A&M University) is the winner of the Organometallic Chemistry Award. Gladysz studied at the University of Michigan and worked for his PhD (awarded in 1974) with Eugene E. van Tamelen at Stanford University. He subsequently started his independent career at the University of California, Los Angeles, and moved to the University of Utah in 1982, and the Universität Erlangen-Nürnberg in 1998. He joined Texas A&M University in 2007, and is currently Distinguished Professor of Chemistry and Dow Chair in Chemical Invention. Gladysz's research program is focused on organometallic chemistry for catalysis and building blocks for molecular devices.^[12] He is also a recipient of the 2013 Texas A&M Distinguished Achievement Award in Research.

John M. Brown (University of Oxford) is the recipient of the Robert Robinson Award. Brown studied at the University of Manchester, where he carried out his PhD (awarded in 1963) with Arthur Birch. After postdoctoral work with Ronald Breslow at Columbia University, New York, a research

fellowship at the Australian National University, and a position at the University of Bristol, he joined the faculty at the University of Warwick in 1966. He moved to the University of Oxford in 1974 and remained there until his retirement in 2008. Brown's research is centered on catalysis by transition-metal complexes.^[13]

- [1] a) *Angew. Chem.* **2013**, *125*, 6948; *Angew. Chem. Int. Ed.* **2013**, *52*, 6814; b) *Angew. Chem.* **2011**, *123*, 9405; *Angew. Chem. Int. Ed.* **2011**, *50*, 9238; c) *Angew. Chem.* **2012**, *124*, 9348; *Angew. Chem. Int. Ed.* **2012**, *51*, 9214; d) *Angew. Chem.* **2013**, *125*, 7071; *Angew. Chem. Int. Ed.* **2013**, *52*, 7071; e) *Angew. Chem.* **2012**, *124*, 10594; *Angew. Chem. Int. Ed.* **2012**, *51*, 10444.
- [2] S. Roy, N. Javid, P. W. J. M. Frederix, D. A. Lamprou, A. J. Urquhart, N. T. Hunt, P. J. Halling, R. V. Ulijn, *Chem. Eur. J.* **2012**, *18*, 11723.
- [3] A. C. Murphy, D. Fukuda, Z. Song, J. Hothersall, R. J. Cox, C. L. Willis, C. M. Thomas, T. J. Simpson, *Angew. Chem.* **2011**, *123*, 3329; *Angew. Chem. Int. Ed.* **2011**, *50*, 3271.
- [4] a) *Angew. Chem.* **2010**, *122*, 7785; *Angew. Chem. Int. Ed.* **2010**, *49*, 7621; b) C. Schwarzmaier, A. Noor, G. Glatz, M. Zabel, A. Y. Timoshkin, B. M. Cossairt, C. C. Cummins, R. Kempe, M. Scheer, *Angew. Chem.* **2011**, *123*, 7421; *Angew. Chem. Int. Ed.* **2011**, *50*, 7283.
- [5] F. Tuna, C. A. Smith, M. Bodensteiner, L. Ungur, L. F. Chibotaru, E. J. L. McInnes, R. E. P. Winpenny, D. Collison, R. A. Layfield, *Angew. Chem.* **2012**, *124*, 7082; *Angew. Chem. Int. Ed.* **2012**, *51*, 6976.
- [6] A. Toledano, L. Serrano, J. Labidi, A. Pineda, A. M. Balu, R. Luque, *ChemCatChem* **2013**, *5*, 977.
- [7] a) *Angew. Chem.* **2009**, *121*, 4541; *Angew. Chem. Int. Ed.* **2009**, *48*, 4473; b) A. J. Senesi, D. J. Eichelsdoerfer, R. J. Macfarlane, M. R. Jones, E. Auyeung, B. Lee, C. A. Mirkin, *Angew. Chem.* **2013**, *125*, 6756; *Angew. Chem. Int. Ed.* **2013**, *52*, 6624.
- [8] W.-Y. Huang, F. Yoshimura, K. Ueda, Y. Shimomura, H.-S. Sheu, T.-S. Chan, H. F. Greer, W. Zhou, S.-F. Hu, R.-S. Liu, J. P. Attfield, *Angew. Chem.* **2013**, *125*, 8260; *Angew. Chem. Int. Ed.* **2013**, *52*, 8102.
- [9] R. H. Currie, J. M. Goodman, *Angew. Chem.* **2012**, *124*, 4773; *Angew. Chem. Int. Ed.* **2012**, *51*, 4695.
- [10] D. Jiao, J. Geng, X. J. Loh, D. Das, T.-C. Lee, O. A. Scherman, *Angew. Chem.* **2012**, *124*, 9771; *Angew. Chem. Int. Ed.* **2012**, *51*, 9633.
- [11] A. J. Young, M. C. White, *Angew. Chem.* **2011**, *123*, 6956; *Angew. Chem. Int. Ed.* **2011**, *50*, 6824.
- [12] M. Stollenz, M. Barbasiewicz, A. J. Nawara-Hultsch, T. Fiedler, R. M. Laddusaw, N. Bhuvanesh, J. A. Gladysz, *Angew. Chem.* **2011**, *123*, 6777; *Angew. Chem. Int. Ed.* **2011**, *50*, 6647.
- [13] R. S. Paton, J. M. Brown, *Angew. Chem.* **2012**, *124*, 10598; *Angew. Chem. Int. Ed.* **2012**, *51*, 10448.

DOI: 10.1002/anie.201305988



J. P. Attfield



J. Goodman



O. Scherman



M. C. White



J. A. Gladysz



J. M. Brown