Report of President 2013/2014 - School of Chemistry & Chemical Biology

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Book Chapters

Professor Patrick Guiry


Dr Zeljka Krpetic


Professor Gil Lee


Dr Eoghan McGarrigle

Balmond, EI; Galan, MC; McGarrigle EM (2014) '1,3-Bis[3,5-bis(trifluoromethyl)phenyl]thiourea' In: Paquette, LA; Crich, D; Fuchs, PL; Molander, GA (eds). e-EROS Encyclopedia of Reagents for Organic Synthesis. Weinheim: John Wiley & Sons Ltd.

Professor Robert O'Neill


Dr Andrew Phillips

Peer Reviewed Journals

**Dr Christoffer Aberg**

Ye, D; Nic Raghnaill, M; Bramini, M; Mahon, E; Åberg, C; Salvati, A; Dawson, KA (2013) 'Nanoparticle accumulation and transcytosis in brain endothelial cell layers'. *Nanoscale*, 5 (22):11153-11165.

**Professor Martin Albrecht**


Juan Olguín, Helge Müller-Bunz and Martin Albrecht (2014) 'Springloaded porphyrin NHC hybrid rhodium(III) complexes: carbene dissociation and oxidation catalysis'. *Chemical Communications*, 50 .


J. P. Bryne, J. A. Kitchen, O. Kotova, V. Leigh, A. P. Bell, J. J. Boland, M. Albrecht, T. Gunnlaugsson (2014) 'Synthesis, structural, photophysical and electrochemical studies of various d-metal complexes of btp [2,6-bis(1,2,3-triazol-4-yl)pyridine] ligands that give rise to the formation of metallo-supramolecular gels'. Dalton Transactions, 43 :196-209.


Monney, Angele; Albrecht, Martin (2013) 'Transition metal bioconjugates with an organometallic link between the metal and the biomolecular scaffold'. Coordination Chemistry Reviews, 257 (17-18):2420-2433.


Professor Kenneth A Dawson


Bertoli F, Davies GL, Monopoli MP, Moloney M, Gun'ko YK, Salvati A, Dawson KA (2014) 'Magnetic nanoparticles to recover cellular organelles and study the time resolved nanoparticle-cell interactome throughout uptake'. Small, 10 (16):3307-3315.


Anguissola S, Garry D, Salvati A, O'Brien PJ, Dawson KA (2014) 'High Content Analysis Provides Mechanistic Insights on the Pathways of Toxicity Induced by Amine-

Dr Paul Evans


Professor Declan Gerard Gilheany


Elizabeth V. Jennings, Kirill Nikitin, Yannick Ortin, Declan G. Gilheany (2014) 'Degenerate Nucleophilic Substitution in Phosphonium Salts'. *Journal of the American Chemical Society*.


Professor Patrick Guiry


Haberlin, G.; McCarthy, C.; Doran, R., Guiry, P. J. (2014) 'Asymmetric Synthesis and Biological Evaluation of 1,3- and 1,4-disubstituted Benzo-type Lipoxin A4 Analogues'. Tetrahedron, 70 :6859-6869.

Dr Zeljka Krpetic


Professor Gil Lee


Dr Eoghan McGarrigle

Balmond, EI; Benito-Alifonso, D; Coe, DM; Alder, RW; McGarrigle, EM; Galan, MC; (2014) 'A 3,4-trans-Fused Cyclic Protecting Group Facilitates α-Selective Catalytic Synthesis of 2-Deoxyglycosides'. Angewandte Chemie International Edition, 53 (31):8190-8194.

Dr Grace Morgan


Dr Helge Eberhard Muller-Bunz


Professor Robert O'Neil


Professor Stefan Oscarson


Dr Francesca Paradisi


Alsafadi, D; Paradisi, F (2014) 'Covalent immobilization of alcohol dehydrogenase


Takahashi, H; Kutasy, B; Pes, L; Paradisi, F; Puri, P (2014) 'Decidual beta-carotene-15,15′-oxygenase-1 and 2 (BCMO1,2) expression is increased in nitrofen model of congenital diaphragmatic hernia'. *Pediatric Surgery International*.

Robertson, K; Murphy, CD; Paradisi, F (2013) 'The synthesis and biological testing of bacilysin analogues'. *Amino Acids*, 45:1157-1168.

Liliensiek, AK; Cassidy, J; Gucciardo, G; Whitely, C; Paradisi, F (2013) 'Heterologous Expression, Purification and Characterisation of an Alcohol Dehydrogenase (ADH2) from Halobacterium sp. NRC-1'. *Molecular Biotechnology*, 55:143-149.

**Dr Andrew Phillips**


**Dr Susan Quinn**

Stephen J. Devereux, Páraic M. Keane Suni Vasudevan Igor V. Sazanovich, Michael Towrie, Qian Cao, Xue-Zhong Sun, Michael W. George, Christine J. Cardin, Noel A. P. Kane-Maguire, John M. Kelly and Susan J. Quinn (2014) 'Study of picosecond processes of an intercalated dipyridophenazine Cr(III) complex bound to defined sequence DNAs using transient absorption and time-resolved infrared methods'. *Dalton Transactions*.


**Dr James Sullivan**


Dr Matthias Tacke


Dr Xiangming Zhu


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Conference Publications

Dr Paul Evans

Cleary, J., Doherty, W., Evans, P, and Malthouse, J,P,G (2014) Observing Low Barrier Hydrogen Bonds by 1H-NMR in Chymotrypsin Gordon Research conference on Proteolytic Enzymes & Their Inhibitors,