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Biography

George Koutsantonis is a synthetic chemist with an interest in functional materials that contain metals. He is a graduate of the University of Adelaide where he obtained his BSc(Hons) and PhD degree, the latter, under the supervision of Michael Bruce. He began his scientific life studying the coordination properties and reactions of alkynes and often returns to this fascinating area. He undertook a postdoctoral position at the University of Kentucky. In Lexington, he continued his work with alkynes, more specifically investigating metathesis reactions with metalloalkynes. After a fruitful period in the USA, he returned to Australia on an inaugural ARC Postdoctoral Fellowship at Griffith University in 1991. In Brisbane, still essentially an inorganic chemist, worked with Main Group hydrides of Group 13. He was appointed to the staff at the University of Western Australia in 1995 where he remains. In Perth, he established an independent research programme in organometallic and inorganic chemistry. His work in this area was recognised by the joint award of the RACI Organometallic award in 2004

Biography

2010-2016	Professor (Level D)	University of Western Australia
2009-2010	Associate Professor	University of Western Australia
2002-2008	Senior Lecturer	University of Western Australia
1995-2002	Lecturer	University of Western Australia
1991	ARC Postdoctoral Fellow	Griffith University
1989	Postdoctoral Fellow	University of Kentucky

Qualifications

27 Mar 2015 → ... Fellow of the Royal Society of Chemistry, FRSC
4 Mar 2011 → ... Fellow of the royal Australian Chemical Institute, FRACI
Chartered Chemist, CChem

Employment

Professor
School of Molecular Sciences
22 Jun 1998 → present

Co-Editor in Chief Australian Journal of Chemistry
1 Jun 2016 → present

Research outputs

An Orthogonal Conductance Pathway in Spiropyrans for Well-Defined Electrosteric Switching Single-Molecule Junctions
Jago, D., Liu, C., Daaoub, A. H. S., Gaschk, E., Walkey, M. C., Pulbrook, T., Qiao, X., Sobolev, A. N., Moggach, S. A., Costa-Milan, D., Higgins, S. J., Piggott, M. J., Sadeghi, H., Nichols, R. J., Sangtarash, S., Vezzoli, A. & Koutsantonis, G. A., 22 Feb 2024, In: Small. 20, 8, 8 p., 2306334.

Inert Transition Metal Ion Complexes in Organic Synthesis: Protection and Activation

Donnelly, P. S., Harrowfield, J. M., Koutsantonis, G. A., Lengkeek, N. A., Ling, I., Nealon, G. L., McInnes, L. E., Skelton, B. W., Sobolev, A. N., White, A. H. & White, J. M., 15 Sept 2023, In: Chemistry - An Asian Journal. 18, 18, 12 p., e202300556.

History and fundamentals of molecular photochromism

Jago, D., Gaschk, E. & Koutsantonis, G., 6 Sept 2023, (E-pub ahead of print) In: Australian Journal of Chemistry:.. 76, 10, p. 635-654 20 p.

Functionalised organometallic photoswitches containing dihydropyrene units

Gillespie, A. A., Roemer, M., Jago, D., Sobolev, A. N., Nealon, G. L., Spackman, P. R., Moggach, S. A. & Koutsantonis, G. A., Sept 2023, In: Dalton Transactions. 52, 40, p. 14549-14563 15 p.

Multistate Switching of Some Ruthenium Alkynyl and Vinyl Spiropyran Complexes

Jago, D., Walkey, M. C., Gaschk, E. E., Spackman, P. R., Piggott, M. J., Moggach, S. A. & Koutsantonis, G. A., 7 Aug 2023, In: Inorganic Chemistry. 62, 31, p. 12283–12297 15 p.

Evaluation of the 5-ethynyl-1,3,3-trimethyl-3H-indole ligand for molecular materials applications

Jago, D., Milan, D. C., Sobolev, A., Higgins, S. J., Vezzoli, A., Nichols, R. J. & Koutsantonis, G., 6 Jul 2023, In: Australian Journal of Chemistry:.. 76, 4, p. 209-230 22 p.

Multifunctional switching properties of "wire-like" dinuclear ruthenium bis-alkynyl spirobopyran complexes

Jago, D., Langley, A. R., Eaves, S. G., Walkey, M. C., Pulbrook, T., Moggach, S. A., Piggott, M. J., Low, P. J. & Koutsantonis, G. A., 2023, In: Dalton Transactions. 52, p. 185-200 16 p.

Special issue dedicated to Professor Glen Deacon

Junk, P. C. & Koutsantonis, G., 16 Sept 2022, In: Australian Journal of Chemistry. 75, 9, p. 493-494 2 p.

2,7-and 4,9-Dialkynylidihydropyrene Molecular Switches: Syntheses, Properties, and Charge Transport in Single-Molecule Junctions

Roemer, M., Gillespie, A., Jago, D., Costa-Milan, D., Alqahtani, J., Hurtado-Gallego, J., Sadeghi, H., Lambert, C. J., Spackman, P. R., Sobolev, A. N., Skelton, B. W., Grosjean, A., Walkey, M., Kampmann, S., Vezzoli, A., Simpson, P. V., Massi, M., Planje, I., Rubio-Bollinger, G., Agrait, N., & 5 others Higgins, S. J., Sangtarash, S., Piggott, M. J., Nichols, R. J. & Koutsantonis, G. A., 20 Jul 2022, In: Journal of the American Chemical Society. 144, 28, p. 12698–12714 17 p.

Solution-phase decomposition of ferrocene into wustite-iron oxide core-shell nanoparticles

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Roemer, M., Gillespie, A. A., Turner, G., Flematti, G., Hobday, C. L., Sobolev, A., Wild, D., Nealon, G., Piggott, M., Moggach, S. & Koutsantonis, G., 3 Nov 2021, In: Crystal Growth & Design. 21, 11, p. 6558-6566 9 p.

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Measurement of Electric Fields Experienced by Urea Guest Molecules in the 18-Crown-6/Urea (1:5) Host-Guest Complex: An Experimental Reference Point for Electric-Field-Assisted Catalysis

Shi, M., Thomas, S., Hathwar, V. R., Edwards, A. J., Piltz, R. O., Jayatilaka, D., Koutsantonis, G., Overgaard, J., Nishibori, E., Iversen, B. & Spackman, M., 7 Mar 2019, In: Journal of the American Chemical Society. 141, 9, p. 3965-3976 12 p., 10.1021/jacs.8b12927.

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Deprotonation of Large Calixarenes-Cation Binding and Conformations

Harrowfield, J. M., Koutsantonis, G. A., Ogden, M. I., Sobolev, A. N. & White, A. H., 2016, In: Australian Journal of Chemistry. 69, 5, p. 546-554 9 p.

Priming Your Research

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Molecular imprisonment: Host response to guest location, orientation, and dynamics in clathrates of Dianin's compound
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Prizes/awards

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Organometallic Chemistry Prize

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