

Professor Philip Mountford

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Current positions

- Professor of Organometallic Chemistry and Catalysis.
- Fellow and Tutor in Inorganic Chemistry, St Edmund Hall.

Prizes and awards, fellowships and visiting professorships

- BASF Guest Professor, Universität Tübingen, Germany (2015-2016).
- Schlenk Lecturership and Prize, Universität Tübingen, Germany (2015).
- Peking University–Eli Lilly Prize Lectureship, Peking, China (2014).
- Royal Society of Chemistry Award for Organometallic Chemistry (Frankland Award) (2012-2013).
- Visiting Professor, Universität Heidelberg, Germany (2004).
- Visiting Professor, Université Bordeaux I, Bordeaux, France (2003).
- Visiting Professor, Université Louis Pasteur, Strasbourg, France (2002).
- Royal Society of Chemistry Sir Edward Frankland Fellowship (awarded for organometallic chemistry, 1998-1999).
- Fellow of the Royal Society of Chemistry (CChem FRSC, 1998).
- Junior Research Fellowship (open competition), Wolfson College, Oxford (1989-1992).
- Smith, Kline & French Prize for outstanding academic achievement, University of Hertfordshire (1986).

Selected other professional details

- Member of the International Advisory Board for the 28th International Conference on Organometallic Chemistry (2018).
- Chairman of the Editorial Board of the Royal Society of Chemistry's *Specialist Periodical Reports* (2016-2018)
- Member of the International Advisory Board for the JSPS program "Precisely Designed Catalysts" (Japan, 2015-2020).
- Advisory group, appointment of Editorial Board Chair of *Chemical Communications* (2015).
- Guest Editor, *Dalton Transactions*: "Earth abundant element compounds in homogeneous catalysis" (2015).
- Member of the the Royal Society of Chemistry Dalton Division Awards Committee (2013 & 2014).
- International Scientific Advisory Committee for XIth European Congress on Catalysis (2013).
- Guest Editor, *Dalton Transactions*: "Advances in Metal-Catalysed Polymerisation" (2013).
- Member of the Editorial Advisory Board for the MDPI journal *Inorganics* (2013-date).
- Chairman of the Editorial Board of the Royal Society of Chemistry's journal *Dalton Transactions* (2012-2015).
- Member of the Royal Society of Chemistry's Dalton Division (Inorganic Chemistry) Council (2012-2015).
- Member of the Editorial Advisory Board for Open Access Books in Chemistry (2012-date).
- External advisor, University of Manchester Research Excellence Framework (REF) preparation exercise (2012).
- External assessor, Dutch Polymer Institute, The Netherlands (2011 & 2013).
- External examiner for the undergraduate chemistry course, University of East Anglia (2009-2012).
- Consultant to DSM Elastomers BV (2006-2012).
- Guest Editor, *Journal of Organometallic Chemistry*: " π -donor ligands" (1999).
- Member of the American Chemical Society (1993).

Previous academic positions, qualifications and education

- Head of Inorganic Chemistry, University of Oxford (2013-2016).
- Acting Head and Executive Deputy Head of Inorganic Chemistry, University of Oxford (2008-2013)
- Reader in Inorganic Chemistry, University of Oxford (2002-2006).
- Lecturer in Inorganic Chemistry, University of Oxford (1998-2002).
- M.A. by special resolution, University of Oxford (1998).
- Lecturer in Inorganic Chemistry, University of Nottingham (1992-1998).
- Departmental Lecturer, Department of Chemistry, University of Oxford (1990-1992).
- College lecturer, Keble College, Oxford (1990-1992).
- D.Phil. in Chemistry, University of Oxford and Balliol College Oxford (1990). Thesis title: "The Syntheses, Structures and Reactivity of Organoditungsten Compounds". Advisor: Professor M.L.H. Green.
- B.Sc. (Hons, Class 1) in Applied Chemistry, University of Hertfordshire (1986).

Publications and international or national conference presentations (see full publication list below)

- Author of *ca.* 265 publications and patents.
- *H*-index 50 (*ca.* 8600 citations & 32 citations per peer-reviewed item).
- Speaker at *ca.* 140 international or national meetings/conferences (65 invited/plenary) or university seminars.

Research interests summary

Fundamental aspects of the synthesis, reactions and electronic and molecular structures of organometallic compounds; chemistry of transition metal compounds with metal-ligand multiple bonds; olefin polymerisation catalysts based on new ligand designs; design and synthesis of new catalysts for the polymerisation of cyclic esters towards biodegradable and biocompatible polymers using transition metal, main group and lanthanide compounds; synthesis, properties and reactions of compounds with unusual metal-metal and metal-element bond combinations.

Leadership, management and administration

Chemistry Department, University of Oxford

As Head of Inorganic chemistry (2013-2016) and Acting Head of Inorganic Chemistry (2010-2011):

Responsibility for academic teaching and research activities and health and safety in the Inorganic Chemistry sub-department.

Day to day line-management of *ca.* 20 academic staff and *ca.* 6 technical and secretarial staff.

Responsibility for oversight and management of the departmental Inorganic NMR facilities, single crystal X-ray diffraction facilities and service, powder X-ray diffraction facilities, SQUID magnetometers facility.

Responsibility for oversight of the inorganic chemistry undergraduate teaching laboratories.

Member of the departmental senior management team responsible for all departmental operations, budget and activities.

As Executive Deputy Head of Inorganic chemistry (2008-2010 & 2011-2013):

Oversight of all day-to-day operations of the sub-department including responsibility for oversight and management of the departmental Inorganic NMR facilities and single crystal X-ray diffraction facilities. Member of the departmental senior management team responsible for all departmental operations, budget and activities from 2011-2013.

General service and duties:

Member of the Department of Chemistry Management Board (2010-2016); Chairman of the Inorganic Chemistry Departmental Committee (2013-2016); Chairman of the Inorganic Chemistry Safety Committee (2013-2016); Chairman of the Chemistry X-ray Service Committee (2011-2016); Chairman of the Inorganic Chemistry Staff Committee (previously vice-chairman) (2008-2016); Member of the Chemistry Joint Consultative (staff-student) Committee (1999-2001 and 2013-2016); Member of the Chemistry Department Research Board (2006-2008 and 2010-2016); Member and vice-chair of the Inorganic Chemistry Departmental Committee (2006-2013); Chemistry Department Research Excellence Framework (REF2014) working group (2012-2013); Chairman of the Inorganic Chemistry Joint Staff Committee (2008-2011); Member of the Inorganic Chemistry Safety Committee

(2008-2013); Member of the Chemistry Research Laboratory Safety Committee (2008-2011); Member and/or Chairman of the Chemistry Department Merit Review Panel (2008, 2009, 2014); Departmental Harassment Adviser (2006-2009); Member of the Inorganic Chemistry Joint Staff Committee (2003-2008); Member of the Chemistry Management Committee (2003-2004); Chairman of the Chemistry Graduate Studies Committee (2003-2004); Director of Graduate Studies for Inorganic Chemistry (2002-2005); Member of the Chemistry Graduate Studies Committee (2002-2005); Chairman of the Chemistry Joint Consultative (staff-student) Committee (2001-2002); Member of the Chemistry NMR and X-ray facilities working group (2001-2002); Member of the Chemistry X-ray Service Committee (1999-2008); Member of the Chemistry Departmental Academic Committee (1999-2005); Member of the Inorganic Chemistry Laboratory Departmental Committee (1999-2005); Chairman and Coordinator of Chemistry Science Open Days (1999-2002).

Mathematical, Physical and Life Sciences Division, University of Oxford

Member of the Glasstone Benefaction Committee (2014-2018); Member of the Divisional Board (2010-2013 & 2015-2017), including Sub-Group for the Conferral of Associate Professor Title (2016); MPLS academic representative on the University "Prevent Duty" Steering Group (2016-2017); Member of the Divisional Finance Committee (2012-2015); Member of the Divisional Academic Committee (2003-2004); Member of the Divisional Graduate Studies Advisory Panel (2002-2006).

St Edmund Hall, Oxford

Member of the Governing Body (1998-date); Member and Secretary to the College Committee (welfare and related matters) (2008-2011); Member of the Finance Committee (2008-2017); Member of the Disciplinary Committee (2005-2009); Senior Treasurer of the Amalgamated Clubs (sports and societies) (2002-2007); Member of the Academic Committee (2002-2004); Member of the IT Committee (2001-2004); Member of the Development Committee (2001-2002).

Doctorate, postdoctorate and undergraduate supervision

Completed D. Phil. students (43). 23 went on to postdoctoral positions in the UK or overseas (underlined) and/or subsequently went on to academic or equivalent positions (marked with an asterisk).

S. Mellino, B. Xie, B. A. Clough, R. A. Collins, H. Yin, L. C. Stevenson, B. Core, J. Unruangsri^{*}, L. R. Groom, L. Saleh, M. P. Blake, R. T. W. Scott, L. Clark, A. D. Schofield, P-J. Tiong^{*}, M. G. Cushion, A. D. Schwarz, A. Heath, J. D. Selby, H. E. Dyer, C. Wang, N. Hazari^{*}, C. S. Tredget, H. R. Bigmore, P. D. Bolton, E. Hollis, C. L. Boyd, R. A. Whannel, B. R. Tyrrell, A. J. Sealey, A. E. Guiducci, B. D. Ward^{*}, S. C. Lawrence, N. Adams^{*}, S. M. Pugh, M. E. G. Skinner, S. R. Dubberley, P. J. Wilson^{*}, P. E. Collier, P. J. Stewart, D. Swallow, S. C. Dunn and S. Wan.

Postdoctoral researchers (28). 9 of these (underlined) went on to independent academic positions.

B. Xie (SCG Chemicals), B. Clough (SCG Chemicals), I. Yu (EPSRC), M. P. Blake (EPSRC then Leverhulme Trust), M. Hu (China Scholar Council), Y. Huang (China Scholar Council), A. D. Schwarz (EPSRC), A. Protchenko (Leverhulme Trust then EPSRC), J. D. Selby (EPSRC), Z. Chu (China Scholar Council), P. D. Bolton (John Fell Fund, Oxford), C. L. Boyd (EPSRC), F. Bonnet (Leverhulme Trust), C. M. Kozak (NSERC Canada), A. Hillier (Leverhulme Trust), B. D. Ward (Leverhulme Trust), S. R. Dubberley (EPSRC), T. Toupance (EC Marie Curie), Y. Li (China Scholar Council awardee), S. Y. Bylikin (Royal Society/NATO), D. A. Robson (Leverhulme Trust), A. G. Moody (EPSRC), N. A. H. Male (EPSRC), J. M. McInnes (EPSRC/Leverhulme Trust), S. Z. Vatsadze (Royal Society/NATO), D. Swallow (Leverhulme Trust), G. I. Nikonov (Royal Society/NATO), K. A. Butakoff (Royal Society/NATO).

Masters (Final year M.Chem, 50). 18 of these (underlined) went on to study for a Ph.D.

G. Beaumont, A. Burningham C. Nesbitt W. Diment R. King H. Barrett P Macdonald G Schenk A Walker A Miller L Budden A. Cooper Onn Chee L. Collins R. Collins H Morgan N Egan L Groom G Hilton J Unruangsri N Yong R Scott A Kilpatrick K Herbert A Clulow L Clark A D Schofield G Hayday C Manley Z Turner S Ashdown J Selby T Parsons R Howe C Owen S Simmonds-Gooding A C R Croft G Orde C R Wilson P D Bolton S Evans T Lowes N Stacey C Boyd T J Blundell M Melville D Cowhig J Fletcher J Gardner D Willman .

Lectures at international and national meetings

76. Chemical Society of Japan Spring meeting, Funabashi, Japan (2018).
75. Symposium on Organic Chemistry, Nagoya University, Japan (2018).
74. Joint JSPS-DFG Symposium, Kansai Region, Japan (2018).
73. 28th Conference on the Rare Earths Elements, Tübingen, Germany (2017).
72. Organometallic Discussion Meeting, The Spanish Chemical Society, Universidad de Alcalá, Spain (2017).
71. 100th Canadian Society for Chemistry Conference, Toronto (2017).
70. 2nd Royal Society of Chemistry, Southern Dalton Meeting, Reading, UK (2016).
69. 16th Inorganic Chemistry Division meeting of the Royal Australian Chemical Institute and the New Zealand Institute of Chemistry, Melbourne, Australia (2016).
68. 27th International Conference on Organometallic Chemistry, Melbourne, Australia (2016).
67. 4th Blue Sky Conference on Catalytic Olefin Polymerization, Sorrento (2016).
66. Transition Metal CPD Day, The Prince's Teaching Institute, London, UK (2016).
65. 5th Asian Conference on Coordination Chemistry, Hong Kong (2015).
64. 7th PKU-Eli Lilly Symposium of Organic Chemistry, Beijing, China (2014).
63. 41st International Conference on Coordination Chemistry, Singapore (2014).
62. Symposium on New Aspects of Reactive Organometallic Complexes of the Transition Metals, Osaka, Japan (2014).
61. 26th International Conference on Organometallic Chemistry, Sapporo, Japan (2014).
60. 97th Canadian Society for Chemistry Conference, Vancouver (2014).
59. 4th KACST Petrochemicals Forum, Riyadh, Saudi Arabia (2014).
58. Mini-Symposium in Organometallic Chemistry, UCLAN, UK (2014).
57. RSC Awards Symposium, St Andrews, Scotland (2013).
56. 4th Dalton Transactions International Symposium, Singapore and Shanghai, China (2012).
55. International Symposium on Organometallic Chemistry 2012, Seoul, South Korea (2012).
54. ICIQ Taragonna/ Oxford Chemistry Meeting in Catalysis, Oxford (2012).
53. 92nd Canadian Society for Chemistry Conference, Calgary (2012).
52. EUFEN-1, Tarragona, Spain (2012).
51. First International Symposium on Molecular Activation, Kobe, Japan (2011).
50. International Symposium on Organometallic Chemistry 2011, Osaka, Japan (2011).
49. EICC-1: First EuCheMS Inorganic Chemistry Conference, Manchester, UK (2011).
48. 23rd Conference on the Rare Earths Elements, Bayreuth, Germany (2010).
47. 3rd Blue Sky Conference on Catalytic Olefin Polymerization, Sorrento (2010).
46. 5th Australian National Organometallics Meeting, Sydney (2010).
45. "Frontiers in Transition Metal Catalysis", Zentralinstitut für Katalyseforschung, TUM, Germany (2009).
44. 92nd Canadian Society for Chemistry Conference, Ontario (2009).
43. "Chemistry and Spectroscopy of the Lanthanides and Actinides", Royal Society of Chemistry Awards Symposium, Oxford (2009).
42. Cardiff Easter Conference, Cardiff, Wales (2009).
41. 38th Meeting of the Royal Society of Chemistry Inorganic Reaction Mechanisms Group, UK (2009).
40. 38th International Conference on Coordination Chemistry, Jerusalem (2008).
39. 23rd International Conference on Organometallic Chemistry, Rennes (2008).
38. Gecom-Concoord 2008, Paris (2008).
37. 17th EuCheMS Conference on Organometallic Chemistry, Sofia (2007).
36. Gordon Research Conference in Organometallic Chemistry, USA (2007).

35. Symposium on Olefin Polymerisation Catalysis, UEA (2007).
34. Sackler Prize Symposium, Tel Aviv (2007).
33. 15th International Symposium on Homogeneous Catalysis (2006).
32. Organometallics and their Applications (OATA), Cape Town (2006).
31. 22nd International Conference on Organometallic Chemistry, Zaragoza (2006).
30. Theoretical and Experimental Inorganic Chemistry Symposium, Oxford (2004).
29. 21st International Conference on Organometallic Chemistry, Vancouver (2004).
28. 5th Royal Society of Chemistry International Symposium on Transition Metals in Organic Synthesis, Glasgow (2004).
27. Royal Society of Chemistry Coordination Chemistry Discussion Group: annual conference, Leicester (2004).
26. 16th Conference on the Rare Earths Elements, Berlin, Germany (2003).
25. Combined meeting of the Canadian Society for Chemistry and IUPAC, Ottawa (2003).
24. 15th Conference on the Rare Earths Elements, Mainz, Germany (2002).
23. 20th International Conference on Organometallic Chemistry, Corfu (2002).
22. 222nd American Chemical Society National Meeting symposium "The Chemistry of the Metal-Nitrogen Bond", Chicago, USA (2001).
21. Royal Society of Chemistry Coordination Chemistry Discussion Group: annual conference, York (2001).
20. 4th Anglo-Dutch Symposium on Organometallic Chemistry and Catalysis, The Netherlands (2000).
19. 34th International Conference on Coordination Chemistry, Edinburgh (2000).
18. Royal Society of Chemistry, Glasgow and West of Scotland Section (2000).
17. South-West Regional Meeting of the Dalton Division of the Royal Society of Chemistry, Cardiff (2000).
16. 3rd Workshop on Frontier Applied Chemistry Research "21st Century Molecular Synthesis and Catalysis", Hong Kong, China (1999).
15. 218th American Chemical Society National Meeting symposium "Frontiers in Organometallic Chemistry", New Orleans, USA (1999).
14. Gordon Research Conference in Organometallic Chemistry, USA (1999).
13. 18th International Conference on Organometallic Chemistry, Munich (1998).
12. INEOS-98, Russian Academy of Science, Moscow (1998).
11. Royal Society of Chemistry Autumn Congress, University of Aberdeen (1997).
10. 213th American Chemical Society National Meeting, San Francisco, USA (1997).
9. British-Russian Interdisciplinary Symposium, Kaliningrad, Russia (1996).
8. 211th American Chemical Society National Meeting, New Orleans, USA (1996).
7. Midlands Universities Inorganic Discussion Meeting, University of Loughborough (1995).
6. Royal Society of Chemistry/GDCh 3rd International Conference on Inorganic Chemistry, University of Sussex (1995).
5. Royal Society of Chemistry symposium: "New Chemistry with Alkoxide and Imide Ligands", London (1995).
4. "Chemistry Research for Britain", The Royal Society, London (1993).
3. MICRA 92, University of Newcastle (1992).
2. RSC Autumn Congress, University College, Dublin (1992).
1. International Conference on the Chemistry of the Early Transition Metals, Sussex University (1992).

University seminars

University of Southampton (twice); University of Cambridge (twice); University of York; University College London (twice); University of Sheffield (twice); University of Birmingham; University of Bristol; University of Manchester (twice); University of Leicester; University of Durham; Imperial College London (twice); University of Mainz, Germany; University of Göttingen, Germany; University of Würzburg, Germany (twice); University of Marburg, Germany; University of Bayreuth, Germany (twice); University of Sussex; University of Leeds; University of Oxford; University of East Anglia (twice); University of Gröningen,

Netherlands; University of Warwick; QMW College, London; University of Bath (twice); Université Louis Pasteur, Strasbourg, France (twice); University of Karlsruhe (twice), Germany; Laboratoire de Chimie de Coordination du CNRS, Toulouse, France (twice); University of Bourgogne, France; Université Montpellier 2, France; University of Basel, Switzerland; University of Heidelberg, Germany; University of Liverpool; Herriot-Watt University; University of Nottingham (twice); University of St Andrews; Eindhoven University of Technology, Netherlands; RWTH Aachen University, Germany (twice); University of Erlangen-Nürnberg, Germany; University of Regensburg, Germany; University of Lethbridge, Canada; Osaka University, Japan (twice); University of Rennes, France; University of Edinburgh; Universität Tübingen, Germany (twice); ETH Zurich, Switzerland (twice); Universität Duisburg-Essen, Germany; Universidad de Sevilla-Consejo Superior de Investigaciones Científicas, Spain; Nagoya University, Japan; Tokyo University, Japan; University of Lyon, France.

Publications and patents

267. "Synthesis of titanium borylimido compounds supported by diamide-amine ligands and their reactions with alkynes". B. A. Clough and P. Mountford, *Organometallics*, 2018, **37**, accepted for publication.
266. "Electronic delocalization in two and three dimensions: differential aggregation in indium 'metalloid' clusters". A. V. Protchenko, J. Urbano, J. A. B. Abdalla, J. Campos, D. Vidovic, A. D. Schwarz, M. P. Blake, P. Mountford, C. Jones, and Simon Aldridge, *Angew. Chem. Int. Ed.*, 2017, **56**, 15098-15102.
265. "New titanium borylimido compounds: synthesis, structure and bonding". B. A. Clough, S. Mellino, A. V. Protchenko, M. Slusarczyk, L. C. Stevenson, M. P. Blake, B. Xie, E. Clot and P. Mountford, *Inorg. Chem.*, 2017, **56**, 10794-10814.
264. "Reactions of titanium imides and hydrazides with boranes". S. Mellino, L. C. Stevenson, E. Clot and P. Mountford, *Organometallics*, 2017, **36**, 3329-3342.
263. "New scandium borylimido chemistry: synthesis, bonding and reactivity". B. A. Clough, S. Mellino, E. Clot and P. Mountford, *J. Am. Chem. Soc.*, 2017, **139**, 11165-11183.
262. "Monometallic and bimetallic titanium κ 1-amidinate complexes as olefin polymerization catalysts". R. A. Collins, A. F. Russell, R. T. W. Scott, R. Bernardo, G. H. J. van Doremaele, A. Berthoud and P. Mountford, *Organometallics*, 2017, **36**, 2167-2181.
261. "Piperazine-Based N₄-Type 16-Membered Macrocyclics and Their Nickel(II) Complexes". S. Z. Vatsadze, D. P. Krut'ko, A. J. Blake, and P. Mountford, *Macrocyclics*, 2017, **10**, 98-109.
260. "Enabling and probing oxidative addition and reductive elimination at a Group 14 metal center: cleavage and functionalization of E-H bonds by a *bis*(boryl)stannylenes". A. V. Protchenko, J. I. Bates, L. M. A. Saleh, M. P. Blake, A. D. Schwarz, E. L. Kolychev, A. L. Thompson, C. Jones, P. Mountford and S. Aldridge, *J. Am. Chem. Soc.*, 2016, **138**, 4555-4564.
259. "Synthesis, characterisation and structural studies of amidinate and guanidinate alkaline earth-transition metal bonded complexes". R. Green, A. C. Walker, M. P. Blake and P. Mountford, *Polyhedron*, 2016, **116**, 64-75. Invited article in celebration of MLH Green's 80th birthday.
258. "Probing the limits of alkaline earth-transition metal bonding: an experimental and computational study". M. P. Blake, N. Kaltsoyannis and P. Mountford, *J. Am. Chem. Soc.*, 2015, **137**, 12352-12368.
257. "Reactions of titanium hydrazides with silanes and boranes: N-N bond cleavage and N atom functionalization". L. C. Stevenson, S. Mellino, E. Clot and P. Mountford, *J. Am. Chem. Soc.*, 2015, **137**, 10140-10143.
256. "Earth-abundant element compounds in homogeneous catalysis". L. L. Schafer, P. Mountford and W. E. Piers as Guest Editors for a Themed Issue, *Dalton Trans.*, 2015, **44**, 12027-12028.
255. "Bis(phenolate)amine-supported lanthanide borohydride complexes for styrene and trans-1,4-isoprene (co-)polymerisations". F. Bonnet, H. E. Dyer, Y. El Kinani, C. Dietz, P. Roussel, M. Visseaux, P. Zinck and P. Mountford, *Dalton Trans.*, 2015, **44**, 12312-12325. Invited submission for a Special Issue on earth-abundant element compounds in homogeneous catalysis.
254. "Group 4 metal complexes for homogeneous olefin polymerisation: a short tutorial review". R. A. Collins, A. F. Russell and P. Mountford, *Appl. Petrochem. Res.*, 2015, **5**, 153-171. Invited article.
253. "s-Block Metal-Metal Bonds". C. Jones, P. Mountford, A. Stasch and M. P. Blake, in *Molecular Metal-Metal Bonds: Compounds, Synthesis, Properties*, Ed. S. T. Liddle, Wiley, 2015.
252. "Synthesis, molecular and electronic structure, and reactions of a Zn-Hg-Zn bonded complex". M. P. Blake, N. Kaltsoyannis and P. Mountford, *Chem. Commun.*, 2015, **51**, 5743-5746. Highlighted in the RSC magazine *Chemistry World*, 2015, **12**, 4.
251. "Reactivity of boryl- and silyl-substituted carbenoids towards alkynes: insertion and cycloaddition chemistry". A. V. Protchenko, M. P. Blake, A. D. Schwarz, C. Jones, P. Mountford and S. Aldridge, *Organometallics*, 2015, **34**, 2126-2129.
250. "The influence of Michael Lappert on the chemistry landscape". J. Arnold, P. J. Brothers, P. Mountford, W. E. Piers, C. M. Thomas and T. D. Tilley, *Dalton Trans.*, 2014, **43**, 16553-16556.

249. "Oxidative bond formation and reductive bond cleavage at Main Group metal centers: reactivity of five valence electron MX₂ radicals". A. V. Protchenko, D. Dange, M. P. Blake, A. D. Schwarz, C. Jones, P. Mountford and S. Aldridge, *J. Am. Chem. Soc.*, 2014, **136**, 10902–10905.
248. "Heavy metal boryl chemistry: complexes of cadmium, mercury and lead". A. V. Protchenko, D. Dange, A. D. Schwarz, C. Y. Tang, N. Phillips, P. Mountford, C. Jones and S. Aldridge, *Chem. Commun.*, 2014, **50**, 3841–3844.
247. "Chiral Lanthanide Complexes bearing amido-bisoxazoline Ligands: Coordination Chemistry, Spectroscopy, and Catalysis". S. D. Bennett, B. A. Core, M. P. Blake, S. J. A. Pope, Philip Mountford and B. D. Ward, *Dalton Trans.*, 2014, **43**, 5871–5885.
246. "Stable MX₂ radicals (M = Ga, In, Tl)". A. V. Protchenko, D. Dange, J. R. Harmer, C. Y. Tang, A. D. Schwarz, M. J. Kelly, N. Phillips, R. Tirfoin, K. H. Birj Kumar, C. Jones, N. Kaltsoyannis, P. Mountford and S. Aldridge, *Nature Chem.*, 2014, **6**, 315–319.
245. "Reactions of a cyclopentadienyl-amidinate titanium benzimidamido complex". L. R. Groom, A. F. Russell, A. D. Schwarz and P. Mountford, *Organometallics*, 2014, **33**, 1002–1019.
244. "Group 5 hydride and borohydride complexes supported by cyclopentadienyl-imido ligand sets". N. McLeod, L. G. Kuzmina, A. V. Churakov, P. Mountford and G. I. Nikonov, *Dalton Trans.*, 2014, **43**, 188–195.
243. "Synthesis and reactions of a cyclopentadienyl-amidinate titanium *tert*-butoxyimido compound". L. R. Groom, A. D. Schwarz, A. Nova, E. Clot and P. Mountford, *Organometallics*, 2013, **32**, 7520–7539.
242. "Advances in metal-catalysed polymerisation and related transformations". P. Mountford as Guest Editor for a Themed Issue, *Dalton Trans.*, 2013, **42**, 8977–8978.
241. "Synthesis and reactivity of titanium hydrazido complexes supported by diamido-ether ligands." J. Unruangsri, H. Morgan, A. D. Schwarz, A. D. Schofield and P. Mountford, *Organometallics*, 2013, **32**, 3091–3107.
240. "Synthesis and reactions of β -diketiminato-supported complexes with Mg-Fe or Yb-Fe bonds." M. P. Blake, N. Kaltsoyannis and P. Mountford, *Chem. Commun.*, 2013, **49**, 3315–3317.
239. "Potassium, zinc, and magnesium complexes of a bulky OOO-tridentate bis(phenolate) ligand: synthesis, structures, and studies of cyclic ester polymerisation". Y. Huang, W. Wang, C.-C. Lin, M. P. Blake, L. Clark, A. D. Schwarz and P. Mountford, *Dalton Trans.*, 2013, **42**, 9313–9324. Invited contribution for a Special Issue on metal-catalysed polymerisation.
238. "Synthesis and structures of calcium and strontium 2,4-di-*tert*-butylphenolates and their reactivity towards the amine co-initiated ring-opening polymerisation of *rac*-lactide". L. Clark, G. B. Deacon, C. M. Forsyth, P. C. Junk, P. Mountford, J. P. Townley, and J. Wang, *Dalton Trans.*, 2013, **42**, 9294–9312. Invited contribution for a Special Issue on metal-catalysed polymerisation.
237. "Synthesis, Bonding and Reactivity of a Terminal Titanium Alkylidene Hydrazido Compound". P. J. Tiong, L. R. Groom, E. Clot and P. Mountford, *Chem. Eur. J.*, 2013, **19**, 4198–4216.
236. "A generic one-pot route to acyclic two-coordinate silylenes from Si(IV) precursors: synthesis and structural characterization of a silylsilylene." A. V. Protchenko, A. D. Schwarz, M. P. Blake, C. Jones, N. Kaltsoyannis, P. Mountford and S. Aldridge, *Angew. Chem. Int. Ed.*, 2013, **52**, 568–571.
235. "Synthesis and *rac*-lactide ring-opening polymerisation studies of new alkaline earth tetrahydroborate complexes." R. A. Collins, J. Unruangsri and P. Mountford, *Dalton Trans.*, 2013, **42**, 759–769. Invited contribution for a Special Issue on metal borane and borohydride chemistry.
234. "A remarkable switch from a diamination to a hydrohydrazination catalyst and observation of an unprecedented catalyst resting state." A. D. Schwarz, C. S. Onn and P. Mountford, *Angew. Chem. Int. Ed.*, 2012, **51**, 12298–12302.
233. "A stable two-coordinate silylene." A. V. Protchenko, K. H. Birj Kumar, D. Dange, A. D. Schwarz, D. Vidovic, C. Jones, N. Kaltsoyannis, P. Mountford and S. Aldridge, *J. Am. Chem. Soc.*, 2012, **134**, 6500–6503.
232. "Site selectivity and reversibility in the reactions of titanium hydrazides with Si–H, Si–X, C–X and H⁺ reagents: Ti=N _{α} 1,2-silane addition, N _{β} alkylation, N _{α} protonation and σ -bond metathesis." P. J. Tiong, A. Nova, A. D. Schwarz, J. D. Selby, E. Clot and P. Mountford, *Dalton Trans.*, 2012, **41**, 2277–2288.
231. "The first Group 4 metal bis(imido) and tris(imido) complexes." A. D. Schwarz, A. J. Nielson, N. Kaltsoyannis and P. Mountford, *Chem. Sci.*, 2012, **3**, 819–824.
230. "Titanium *tert*-butoxyimido compounds." A. D. Schwarz, A. Nova, E. Clot and P. Mountford, *Inorg. Chem.*, 2011, **50**, 12155–12171.
229. "Heterobimetallic complexes containing Ca–Fe or Yb–Fe bonds: synthesis and molecular and electronic structures of [M{CpFe(CO)₂}₂(THF)₃]₂ (M = Ca or Yb)." M. P. Blake, N. Kaltsoyannis, and P. Mountford, *J. Am. Chem. Soc.*, 2011, **133**, 15359–15361.
228. "New sandwich and half-sandwich titanium hydrazido compounds." J. D. Selby, M. Feliz, A. D. Schwarz, E. Clot and P. Mountford, *Organometallics*, 2011, **30**, 2295–2307.
227. "Titanium alkoxyimido (Ti=N–OR) complexes: reductive N–O bond cleavage at the boundary between hydrazide and peroxide ligands." A. D. Schwarz, A. Nova, E. Clot and P. Mountford, *Chem. Commun.*, 2011, **47**, 4926–4928.

226. "Group 3 and lanthanide boryl compounds: syntheses, structures and bonding analyses of Sc–B, Y–B and Lu–B σ -coordinated NHC analogues." L. M. A. Saleh, K. H. Birj Kumar, A. V. Protchenko, A. D. Schwarz, S. Aldridge, C. Jones, N. Kaltsoyannis, and P. Mountford, *J. Am. Chem. Soc.* 2011, **133**, 3836-3839.
225. "Sulfonamide, phenolate and directing ligand-free indium initiators for the ring-opening polymerization of *rac*-lactide." M. P. Blake, A. D. Schwarz and P. Mountford, *Organometallics*, 2011, **30**, 1202–1214.
224. "Reactions of cyclopentadienyl-amidinate titanium hydrazides with CO₂, CS₂ and isocyanates: Ti=N _{α} cycloaddition, cycloaddition-insertion and cycloaddition-NNR₂ group transfer reactions." P. J. Tiong, A. Nova, L. R. Groom, A. D. Schwarz, J. D. Selby, A. D. Schofield, E. Clot and P. Mountford, *Organometallics*, 2011, **30**, 1182–1201.
223. "Si–H and Si–Cl bond activation of titanium hydrazides with silanes and subsequent Ti–H / E–H (E = Si or H) σ bond metathesis". P. J. Tiong, A. Nova, E. Clot and P. Mountford, *Chem. Commun.*, 2011, **47**, 2276-2278.
222. "Cationic and charge-neutral calcium tetrahydroborate complexes and their use in the controlled ring-opening polymerisation of *rac*-lactide." M. G. Cushion and P. Mountford, *Chem. Commun.*, 2011, **47**, 2276-2278.
221. "Reaction site diversity in the reactions of titanium hydrazides with organic nitriles, isonitriles and isocyanates: Ti=N _{α} cycloaddition, Ti=N _{α} insertion and N _{α} –N _{β} bond cleavage." A. D. Schofield, A. Nova, J. D. Selby, A. D. Schwarz, E. Clot and P. Mountford, *Chem. Eur J.*, 2011, **17**, 265-285. Designated a "VIP" paper by the Editor.
220. "Contrasting reactivity of anionic boron- and gallium-containing NHC analogues: E–C vs. E–M bond formation (E = B, Ga)." A. V. Protchenko, L. M. A. Saleh, D. Vidovic, D. Dange, C. Jones, P. Mountford and S. Aldridge, *Chem. Commun.*, 2010, **46**, 8546-8548. Designated a "Hot Article" by the editor and allocated the Inside Cover.
219. "Ligand Variations in New Sulfonamide-Supported Group 4 Ring Opening Polymerization Catalysts." A. D. Schwarz, K. R. Herbert, C. Paniagua and P. Mountford, *Organometallics*, 2010, **29**, 4171-4188.
218. "Ring-opening polymerization of *rac*-lactide by bis(phenolate)amine-supported samarium borohydride complexes: an experimental and DFT study." H. E. Dyer, S. Huijser, N. Susperregui, F. Bonnet, A. D. Schwarz, R. Duchateau, L. Maron and P. Mountford, *Organometallics*, 2010, **29**, 3602-3621.
217. "M=N _{α} cycloaddition and N _{α} –N _{β} insertion in the reactions of titanium hydrazido compounds with alkynes: a combined experimental and computational study." A. D. Schofield, A. Nova, J. D. Selby, C. D. Manley, A. D. Schwarz, E. Clot and P. Mountford, *J. Am. Chem. Soc.*, 2010, **132**, 10484-10497.
216. "Low-coordinate rare-earth complexes of the asymmetric 2,4-di-*tert*-butylphenolate ligand prepared by redox transmetallation/protonolysis reactions, and their reactivity towards ring-opening polymerisation." L. Clark, G. B. Deacon, C. M. Forsyth, P. C. Junk, P. Mountford and J. P. Townley, *Dalton Trans.*, 2010, **39**, 6693-6704. Invited contribution for a Special Issue on Organo-f-element chemistry.
215. "Synthesis, solid state and DFT structure and olefin polymerization capability of a unique base-free dimeric methyl titanium dication." E. G. Ijpeij, B. Coussens, M. A. Zuideveld, G. H. J. van Doremaele, P. Mountford, M. Lutz and A. L. Spek, *Chem. Commun.*, 2010, **46**, 3339-3341.
214. "Synthesis and ethylene trimerisation capability of new chromium(II) and chromium(III) heteroscorpionate complexes." A. F. R. Kilpatrick, S. V. Kulangara, M. G. Cushion, R. Duchateau, and P. Mountford, *Dalton Trans.*, 2010, **39**, 3653-3664.
213. "Sulfonamide-supported aluminum catalysts for the ring-opening polymerization of *rac*-lactide." A. D. Schwarz, Z. Chu and P. Mountford, *Organometallics*, 2010, **29**, 1246-1260.
212. "Syntheses and structural diversity of Group 2 and Group 12 tris(pyrazolyl)methane and zwitterionic tris(pyrazolyl)methanide compounds." M. G. Cushion, J. Meyer, A. Heath, A. D. Schwarz, I. Fernández, F. Breher, P. Mountford, *Organometallics*, 2010, **29**, 1174-1190.
211. "Dicationic and zwitterionic catalysts for the amine-initiated, immortal ring-opening polymerisation of *rac*-lactide: facile synthesis of amine-terminated, highly heterotactic PLA." L. Clark, M. G. Cushion, H. E. Dyer, A. D. Schwarz, R. Duchateau and P. Mountford, *Chem. Commun.*, 2010, **46**, 273-275.
210. "Single and double substrate insertion into the Ti=N _{α} bonds of terminal titanium hydrazides." P.-J. Tiong, A. D. Schofield, J. D. Selby, A. Nova, E. Clot and P. Mountford, *Chem. Commun.*, 2010, **46**, 85-87.
209. "Sulfonamide-supported Group 4 catalysts for the ring-opening polymerization of ϵ -caprolactone and *rac*-lactide." A. D. Schwarz, A. L. Thompson and P. Mountford, *Inorg. Chem.*, 2009, **48**, 10442-10454.
208. "Beta-agostic silylamido and silyl-hydrido compounds of molybdenum and tungsten." S. K. Ignatov, A. Y. Khalimon, N. H. Rees, A. G. Razuvaev, P. Mountford and G. I. Nikonov, *Inorg. Chem.*, 2009, **48**, 9605-9622. Cover issue.
207. "Reactions of cyclopentadienyl-amidinate titanium imido compounds with CO₂: cycloaddition-extrusion versus cycloaddition-insertion." A. E. Guiduci, C. L. Boyd, E. Clot and P. Mountford, *Dalton Trans.*, 2009, 5960-5979. Invited contribution for a Special Issue on "Synergy between Theory and Experiment".
206. "Sodium, magnesium and zinc complexes of monophenolate heteroscorpionate ligands." A. D. Schofield, M. Luna Barros, M. G. Cushion, A. D. Schwarz and P. Mountford, *Dalton Trans.*, 2009, 85-96.
205. "Synthesis, structures and reactivity of Group 4 hydrazido complexes supported by calix[4]arene ligands." A. J. Clulow, J. D. Selby, M. G. Cushion, A. D. Schwarz, and P. Mountford, *Inorg. Chem.*, 2008, **47**, 12049-12062.
204. "Titanium hydrazides supported by diamide-amine and related ligands: a combined experimental and DFT study." J. D. Selby, C. D. Manley, A. D. Schwarz, E. Clot and P. Mountford, *Organometallics*, 2008, **27**, 6479-6494.

203. "Ti=NR vs. Ti-R' Functional Group Selectivity in Imido Titanium Alkyl Cations from a DFT Perspective." M. Feliz, P. D. Bolton, P. Mountford and E. Clot, *Organometallics*, 2008, **27**, 6111-6122.
202. "Ti=NR vs. Ti-R' Functional Group Selectivity in Imido Titanium Alkyl Cations from an Experimental Perspective." P. D. Bolton, M. Feliz, A. R. Cowley, E. Clot and P. Mountford, *Organometallics*, 2008, **27**, 6096-6110.
201. "Silyl hydrides of tantalum supported by cyclopentadienyl-imido ligand sets: syntheses, X-ray, NMR and DFT studies." S. K. Ignatov, N. H. Rees, A. K. Merkoulov, S. R. Dubberley, A. G. Razuvaev, P. Mountford and G. I. Nikonov, *Organometallics*, 2008, **27**, 5968-5977.
200. "Cycloaddition reactions of transition metal hydrazides with alkynes and heteroalkynes: coupling of Ti=NNPh₂ with PhCCMe, PCCH, MeCN and ^tBuCP." J. D. Selby, A. D. Schwarz, C. Schulten, E. Clot, C. Jones and P. Mountford, *Chem. Commun.*, 2008, 5101-5103. Designated a "hot article" by the Editor.
199. "Synthesis, DFT studies and reactions of scandium and yttrium dialkyl cations containing neutral *fac*-N₃ and *fac*-S₃ donor ligands." C. S. Tredget, E. Clot and P. Mountford, *Organometallics*, 2008, **27**, 3458-3473.
198. "Insertions into Azatitanacyclobutenes: New Insights into Three-Component Coupling Reactions Involving Imidotitanium Intermediates". N. Vujkovic, J. L. Fillol, B. D. Ward, H. Wadepohl, P. Mountford, and L. H. Gade, *Organometallics*, 2008, **27**, 2518-2528.
197. "A DFT Study of the mechanism of the polymerization of ε-caprolactone initiated by organolanthanide borohydride complexes". N. Barros, P. Mountford, S. M. Guillaume and L. Maron. *Chem. Eur. J.*, 2008, **14**, 5507-5518.
196. "Syntheses and reactivity of Group 2 and 12 metal complexes of tris(pyrazolyl)methanides featuring "free" pyramidal carbanions". H. R. Bigmore, J. Meyer, I. Krummenacher, H. Rügger, E. Clot, P. Mountford, and F. Breher, *Chem. Eur. J.*, 2008, **14**, 5918-5934.
195. "Imido titanium compounds bearing the 6-dimethylamino-1,4,6-trimethyl-1,4-diazacycloheptane ligand: synthesis, structures, solution dynamics and ethylene polymerisation capability". G. J. Hayday, C. Wang, N. H. Rees and P. Mountford, *Dalton Trans.*, 2008, 3301-3310. Designated a "hot article" by the Editor.
194. "Synthesis and molecular and electronic structure of an unusual paramagnetic borohydride complex Mo(NAr)₂(PMe₃)₂(η²-BH₄)". A. Y. Khalimon, J. P. Holland, R. M. Kowalczyk, E. J. L. McInnes, J. C. Green, P. Mountford, and G. I. Nikonov, *Inorg. Chem.*, 2008, **47**, 999-1006.
193. "Zwitterionic bis(phenolate)amine lanthanide complexes for the ring-opening polymerisation of cyclic esters". H. E. Dyer, S. Huijser, C. Wang, R. Duchateau and P. Mountford, *Dalton Trans.*, 2008, 32-35.
192. "Non-innocent behavior of imido ligands in the reactions of silanes with half-sandwich imido complexes of Nb and V: a silane/imido coupling route to compounds with nonclassical interactions". S. K. Ignatov, N. H. Rees, A. A. Merkoulov, S. R. Dubberley, A. G. Razuvaev, P. Mountford and G. I. Nikonov, *Chem. Eur. J.*, 2008, 296-310.
191. "New ligand platforms for developing the chemistry of the Ti=N-NR₂ functional group and insertion of alkynes into the N-N bond of a Ti=N-NPh₂ ligand". J. D. Selby, C. D. Manley, M. Feliz, A. D. Schwarz, E. Clot and P. Mountford, *Chem. Commun.*, 2007, 4937-4939. Highlighted in *Angew. Chem. Int. Ed.* 2008, **47**, 1557-1559.
190. "Imido-Alkyne Coupling in Titanium Complexes: New Insights into the Alkyne Hydroamination Reaction". N. Vujkovic, B. D. Ward, A. Maise-François, H. Wadepohl, P. Mountford, and L. H. Gade, *Organometallics*, 2007, **26**, 5522-5534.
189. "Cyclopentadienyl titanium imido compounds and their ethylene polymerisation capability: control of molecular weight distributions by imido N-substituents". C. T. Owen, P. D. Bolton, A. R. Cowley and P. Mountford, *Organometallics*, 2007, **26**, 83-92.
188. "AlMe₃ and ZnMe₂ adducts of an imido titanium methyl cation: crystallographic, spectroscopic and DFT studies". P. D. Bolton, E. Clot, A. R. Cowley and P. Mountford, *J. Am. Chem. Soc.*, 2006, **128**, 15005-15018.
187. "Synthesis and ethylene polymerization capability of metallocene-like titanium dialkyl compounds and their reactions with Al^tBu₃". P. D. Bolton, N. Adams, E. Clot, A. R. Cowley, P. J. Wilson, M. Schröder and P. Mountford, *Organometallics*, 2006, **25**, 5549-5565.
186. "Imido titanium ethylene polymerization catalysts containing triazacyclic ligands". N. Adams, H. J. Arts, P. D. Bolton, D. Cowell, S. R. Dubberley, N. Friederichs, C. M. Grant, M. Kranenburg, A. J. Sealey, B. Wang, P. J. Wilson, M. Zuideveld, A. J. Blake, M. Schröder and P. Mountford, *Organometallics*, 2006, **25**, 3888-3903.
185. "Synthesis, structures and olefin polymerization capability of Vanadium(+4) imido compounds with *fac*-N₃ donor ligands". H. R. Bigmore, M. A. Zuideveld, R. M. Kowalczyk, A. R. Cowley, M. Kranenburg, E. J. L. McInnes, and P. Mountford, *Inorg. Chem.*, 2006, **45**, 6411-6423.
184. "Reactions of ^tBuC≡P with cyclooctatetraene-supported titanium imido complexes". F. G. N. Cloke, J. C. Green, N. Hazari, P. B. Hitchcock, P. Mountford, J. F. Nixon and D. J. Wilson *Organometallics*, 2006, **25**, 3688-3700.
183. "Experimental and DFT studies of cationic imido titanium alkyls: agostic interactions and C-H bond and solvent activation reactions of isolobal analogs of Group 4 metallocenium cations". P. D. Bolton, E. Clot, N. Adams, S. R. Dubberley, A. R. Cowley and P. Mountford, *Organometallics*, 2006, **25**, 2806-2825.
182. "Titanium Complexes in the Oxidation State +III". N. Hazari and P. Mountford, in *Comprehensive Organometallic Chemistry III*, R. H. Crabtree and D. M. P. Mingos, Eds., Elsevier, New York, 2006, Volume 4, 281-322.

181. "Reactions of pentaborane(9) with electron-rich molybdenum and tungsten phosphine polyhydrides". M. L. H. Green, J. Walker, P. Mountford, J. B. Leach and M. A. Kelland, *J. Organomet. Chem.*, 2006, **691**, 1934-1940.
180. "Synthesis and reactions of Group 4 imido complexes supported by cyclooctatetraene ligands". A. R. Cowley, S. C. Dunn, J. C. Green, N. Hazari and P. Mountford, *Organometallics*, 2006, **25**, 1755-1770.
179. "Reactions of cyclopentadienyl-amidinate titanium imido compounds with CS₂, COS, isocyanates and other unsaturated organic compounds". A. E. Guiducci, C. L. Boyd and P. Mountford, *Organometallics*, 2006, **25**, 1167-1187.
178. "Lithiation of the diamino-pyridine protio-ligand MeC(C₅H₄N){CH₂N(H)Mes}₂ (Mes = 2,4,6-C₆H₂Me₃)". B. D. Ward, P. Mountford and L. H. Gade, *Acta Crystallogr.*, 2006, **E62**, m472 – m474.
177. "A remarkable inversion of structure-activity dependence on imido N-substituents with varying co-ligand topology and the synthesis of a new borate-free zwitterionic polymerisation catalyst". H. R. Bigmore, S. R. Dubberley, M. Kranenburg, S. C. Lawrence, A. J. Sealey, J. D. Selby, M. Zuideveld, A. R. Cowley, and P. Mountford, *Chem. Commun.*, 2006, 436-438.
176. "A novel transformation of a zirconium imido compound and the development of a new class of N₃ donor heteroscorpionate ligand". R. G. Howe, C. S. Tredget, S. C. Lawrence, S. Subongkoj, A. R. Cowley and P. Mountford, *Chem. Commun.*, 2006, 223-225.
175. "Reactions and applications of titanium imido complexes". N Hazari and P. Mountford, *Acc. Chem. Res.*, 2005, **38**, 839-849.
174. "Lanthanide borohydride complexes supported by diamino-bis(phenoxide) ligands for the polymerization of ε-caprolactone and L- and rac-lactide". F. Bonnet, A. R. Cowley and P. Mountford, *Inorg. Chem.*, 2005, **44**, 9046-9055.
173. "Synthesis, Structures and DFT Bonding Analysis of New Titanium Hydrazido(2-) Complexes". T. B. Parsons, N. Hazari, A. R. Cowley, J. C. Green and P. Mountford, *Inorg. Chem.*, 2005, **44**, 8442-8458.
172. "New Group 4 organometallic and imido compounds of diamide-diamine and related dianionic O₂N₂-donor ligands". M. E. G. Skinner, T. Toupance, D. A. Cowhig, B. R. Tyrrell and P. Mountford, *Organometallics*, 2005, **24**, 5586-5603.
171. "Well-defined imidotitanium alkyl cations: α-C-H or β-Si-C agostic interactions, migratory insertion vs [2+2] cycloaddition, and the first structurally authenticated AlMe₃ adduct of any transition metal alkyl cation". P. D. Bolton, E. Clot, A. R. Cowley and P. Mountford, *Chem. Commun.*, 2005, 3313-3315.
170. "The first rare earth organometallic complex of 1,4,7-trithiacyclononane: a precursor to unique cationic ethylene and α-olefin polymerisation catalysts supported by an all-sulfur donor ligand". C. S. Tredget, F. Bonnet, A. R. Cowley and P. Mountford, *Chem. Commun.*, 2005, 3301-3303.
169. "A family of scandium and yttrium tris(trimethylsilylmethyl) complexes with neutral N₃ donor ligands". C. S. Tredget, S. C. Lawrence, B. D. Ward, R. G. Howe, A. R. Cowley and P. Mountford, *Organometallics*, 2005, **24**, 3136-3148.
168. "Reactions of neutral and cationic diamide-supported imido complexes with CO₂ and other heterocumulenes: issues of site selectivity". B. D. Ward, G. Orde, E. Clot, A. R. Cowley, L. H. Gade and P. Mountford, *Organometallics*, 2005, **24**, 2368-2385.
167. "New and versatile routes to zirconium imido dichloride compounds". S. R. Dubberley, S. E. Evans, C. L. Boyd and P. Mountford, *Dalton Trans.*, 2005, 1448-1458.
166. "New titanium imido synthons: syntheses and supramolecular structures". N. Adams, H. R. Bigmore, T. L. Blundell, C. L. Boyd, S. R. Dubberley, A. J. Sealey, A. R. Cowley, M. E. G. Skinner and P. Mountford, *Inorg. Chem.*, 2005, **44**, 2882-2894.
165. "Pendant arm functionalised benzamidinate titanium imido compounds: experimental and computational studies of their reactions with CO₂". C. L. Boyd, E. Clot, A. E. Guiducci and P. Mountford, *Organometallics*, 2005, **24**, 2347-2367.
164. "Titanium imido complexes of cyclooctatetraenyl ligands". A. J. Blake, A. R. Cowley, S. C. Dunn, J. C. Green, N. Hazari, N. M. Jones, A. G. Moody and P. Mountford. *Chem Eur J.*, 2005, **11**, 2111-2124.
163. "Zirconium and Hafnium: Inorganic and Coordination Chemistry". C. M. Kozak and P. Mountford, in *Encyclopedia of Inorganic Chemistry 2*, Wiley-VCH, 2005.
162. "Lanthanide mono(borohydride) complexes of diamide-diamine donor ligands: novel single site catalysts for the polymerisation of methyl methacrylate". F. Bonnet, A. C. Hillier, A. Collins, S. R. Dubberley and P. Mountford, *Dalton Trans.*, 2005, 421-423 (communication).
161. "Synthesis, structures and reactions of titanium, scandium and yttrium complexes of diamino-bis(phenolate) ligands: monomeric, dimeric, neutral, cationic and multiply-bonded derivatives". C. L. Boyd, T. Toupance, B. R. Tyrrell, B. D. Ward, C. R. Wilson, A. R. Cowley and P. Mountford, *Organometallics*, 2005, **24**, 309-330.
160. "Transition metal imido compounds as Ziegler-Natta olefin polymerisation catalysts". P. D. Bolton and P. Mountford, *Adv. Synth. Catal.*, 2005, **347**, 355-366 (invited review).
159. "Coordination, organometallic and related chemistry of tris(pyrazolyl)methane ligands". H. R. Bigmore, S. C. Lawrence, P. Mountford and C. S. Tredget, *Dalton Trans.*, 2005, 635-651 (Perspective Article review).
158. "A new diamido-amine ligand based on three-carbon atom "arms": synthesis, structures and polymerisation capability of zirconium derivatives of MeN(CH₂CH₂CH₂NSiMe₃)₂". T. A. Lowes, B. D. Ward, R. A. Whannel, S. R. Dubberley and P. Mountford, *Chem. Commun.*, 2005, 113-115.

157. " μ -dichloro-bis[chloro[N-tertbutylimido]bis(pyridine-N)titanium(IV)]". N. Hazari, A. R. Cowley and P. Mountford, *Acta Crystallogr.*, 2004, **E60**, m1844-m1846.
156. "Synthesis, reactivity and computational studies of the cationic tungsten methyl complex $[W(NPh)(N_2N_{py})Me]^+$ and related compounds ($N_2N_{py} = MeC(2-C_5H_4N)(CH_2NSiMe_3)_2$)". B. D. Ward, G. Orde, E. Clot, A. R. Cowley, L. H. Gade and P. Mountford, *Organometallics*, 2004, **23**, 4444-4461.
155. "Nonclassical Titanocene Silylhydrides". S. K. Ignatov, N. H. Rees, B. R. Tyrrell, S. R. Dubberley, A. G. Razuvaev, P. Mountford and G. I. Nikonov, *Chem. Eur. J.*, 2004, **10**, 4991-4999.
154. "A monomeric organolithium compound containing a free pyramidal carbanion in solution and the solid state". F. Breher, J. Grunenberg, S. C. Lawrence, P. Mountford and H. Rügger, *Angew. Chem. Int. Ed.*, 2004, **43**, 2521-2524.
153. "Unexpected features of stretched Si-H \cdots Mo β -agostic interactions". S. K. Ignatov, N. H. Rees, S. R. Dubberley, A. G. Razuvaev, P. Mountford and G. I. Nikonov, *Chem. Commun.*, 2004, 952-953.
152. "Synthesis and structural characterization of an azatitanacyclobutene: The Key Intermediate in the Catalytic Anti-Markovnikov Addition of Primary Amines to α -Alkynes". B. D. Ward, A. Maise-Francois, P. Mountford and L. H. Gade, *Chem. Commun.*, 2004, 704-705.
151. "Revelations in dinitrogen activation and functionalisation by metal complexes", C. M. Kozak and P. Mountford, *Angew. Chem. Int. Ed.*, 2004, **43**, 1186-1189.
150. "Discovery of highly active imidotitanium ethylene polymerisation catalysts and their evaluation using high throughput catalyst screening". N. Adams, H. J. Arts, P. D. Bolton, D. Cowell, S. R. Dubberley, N. Friederichs, C. Grant, M. Kranenburg, A. J. Sealey, B. Wang, P. J. Wilson, A. R. Cowley, P. Mountford, and M. Schröder, *Chem. Commun.*, 2004, 434-435.
149. "Highly efficient ethylene polymerisation by scandium alkyls supported by simple *fac*- κ^3 coordinated N_3 donor ligands". S. C. Lawrence, B. D. Ward, S. R. Dubberley, C. M. Kozak and P. Mountford, *Chem. Commun.*, 2003, 2880-2881.
148. "Recent developments in the non-cyclopentadienyl organometallic and related chemistry of scandium". P. Mountford and B. D. Ward, *Chem. Commun.*, 2003, 1797-1803 (Feature Article review).
147. "Agostic versus hypervalent Si-H Interactions in half-sandwich complexes of Nb and Ta". A. A. Merkulov, P. Mountford and G. I. Nikonov, in *Organosilicon Chemistry V - from Molecules to Materials*, p 451-455, Wiley-VCH, Eds. N. Auner and J. Weiss, 2003.
146. "Group 6 imido complexes supported by diamido-donor ligands". B. D. Ward, S. R. Dubberley, L. H. Gade and P. Mountford, *Inorg. Chem.*, 2003, **42**, 4961-4969.
145. "Organometallic and related imidotitanium compounds containing a pendant arm functionalised benzamidinate ligand". A. C. R. Croft, C. L. Boyd, A. R. Cowley and P. Mountford, *J. Organomet. Chem.*, 2003, **683**, 120-130 (invited contribution to special issue).
144. "Group 1 and mixed Groups 1 and 2 metal complexes of dianionic *p*-*tert*-butylcalix[4]arenes", S. R. Dubberley, A. J. Blake and P. Mountford, *Dalton Trans.*, 2003, 2418-2427.
143. "New titanium imido chemistry with polydentate N-donor ligands". P. Mountford, in *Perspectives in Organometallic Chemistry*, p28-47, Ed. C. G. Screttas and B. R. Steele, Royal Society of Chemistry, 2003.
142. "Synthesis and reactivity of calix[4]arene-supported Group 4 imido complexes". S. R. Dubberley, A. Friedrich, D. A. Willman, P. Mountford and U. Radius, *Chem. Eur. J.*, 2003, **9**, 3634-3654.
141. "Synthesis and structures of titanium imido complexes of sulfur- and mixed nitrogen-sulfur- and nitrogen-oxygen-donor macrocycles". P. J. Wilson, A. J. Blake, P. Mountford and M. Schröder, *Inorg. Chim. Acta*, 2003, **345**, 44-52 (invited contribution to special issue).
140. "Tantalizing chemistry of half-sandwich silylhydride complexes of niobium: identification of likely intermediates on the way to agostic complexes". G. I. Nikonov, P. Mountford and S.R. Dubberley, *Inorg. Chem.*, 2003, **42**, 258-260.
139. "Are J (Si-H) NMR coupling constants really a probe for the existence of non-classical H-Si interactions?". S. R. Dubberley, S. K. Ignatov, N. H. Rees, A. G. Razuvaev, P. Mountford and G. I. Nikonov, *J. Am. Chem. Soc.*, 2003, **125**, 642-643.
138. "Synthesis of TiN thin films from titanium imido complexes". C. J. Carmalt, A. Newport, I. P. Parkin, P. Mountford, A. J. Sealey and S. R. Dubberley, *J. Mater. Chem.*, 2003, **13**, 84-87.
137. "Scandium chloride, alkyl and phenyl complexes of diamide-donor ligands". B. D. Ward, A. Maise-Francois S. R. Dubberley, L. H. Gade and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 2002, 4649-4657.
136. "Chemistry of the imidotungsten methyl cation $[W(N_2N_{py})(NPh)Me]^+$: CO_2 adds to the $W=NPh$ bond and does not insert into the $W-Me$ bond". B. D. Ward, E. Clot, S. R. Dubberley, L. H. Gade and P. Mountford, *Chem. Commun.*, 2002, 2618-2619.
135. "Titanium imido complexes of pendant arm functionalised benzamidinate ligands". C. L. Boyd, A. E. Guiducci, S. R. Dubberley, B. R. Tyrrell and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 2002, 4175-4184.
134. "A General Route to Alkylene-, Arylene- or Benzylene-Bridged Ditin Hexachlorides". B. Jousseume, H. Riague, T. Toupance, M. Lahcini, P. Mountford and B. R. Tyrrell, *Organometallics*, 2002, **21**, 4590-4594.

133. "Bis((diethyl ether-O)(*N*-trimethylsilyl-*N*-*n*-propyl-benzamidinato)lithium)". C. L. Boyd, B. R. Tyrrell and P. Mountford, *Acta Crystallogr.*, 2002, **E58**, m597-m598.
132. "Tris(1-lithio-4,7-dimethyl-1,4,7-triazacyclononane)". S. R. Dubberley, P. Mountford and N. Adams, *Acta Crystallogr.*, 2002, **E58**, m342-m343.
131. "Scandium and yttrium complexes of the diamide-diamine donor ligand (2-C₅H₄N)CH₂N(CH₂CH₂NSiMe₃)₂: chloride, primary and secondary amide, benzamidinate and alkyl functionalised derivatives". M. E. G. Skinner and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 2002, 1694-1703.
130. "Zirconium complexes of diamine-bis(phenolate) ligands: synthesis, structures and solution dynamics." T. Toupance, S. R. Dubberley, N. H. Rees, B. R. Tyrrell and P. Mountford, *Organometallics*, 2002, **21**, 1367-1382.
129. "New diamide-diamine ligands and their zirconium and hafnium dichloride and bis(dimethylamide) complexes". M. E. G. Skinner, Y. Li and P. Mountford, *Inorg. Chem.*, 2002, **41**, 1110-1119.
128. "New N- and O-donor ligand environments in organoscandium chemistry". M. E. G. Skinner, B. R. Tyrrell, B. D. Ward and P. Mountford, *J. Organomet. Chem.*, 2002, **647**, 145-150 (invited communication to special issue).
127. "Evaluation of the relative importance of Ti-Cl...H-N hydrogen bonds and supramolecular interactions between perfluorophenyl rings in the crystal structures of [Ti(NR)Cl₂(NHMe₂)₂] (R = ⁱPr, C₆H₅ or C₆F₅)". N. Adams, A. R. Cowley, S. R. Dubberley, A. J. Sealey, M. E. G. Skinner and P. Mountford, *Chem. Commun.*, 2001, 2738-2739.
126. "Surprising diversity of non-classical silicon-hydrogen interactions in half-sandwich complexes of Nb and Ta: M-H...Si-Cl interligand hypervalent interaction (IHI) versus stretched and unstretched β Si-H...M agostic bonding". G. I. Nikonov, P. Mountford, S. K. Ignatov, M. A. Leech, L. G. Kuzmina, A. G. Razuvaev, N. H. Rees, A. J. Blake, J. A. K. Howard and D. A. Lemenovskii, *J. Chem. Soc., Dalton Trans.*, 2001, 2903-2915.
125. "A dimolybdenum complex with an alkyne ligand parallel to the metal-metal bond: synthesis, structure and cluster formation reactions of [Mo₂(μ,η¹,η¹-C₂Ph₂)(μ-S)(μ-SⁱPr)₂Cp₂]" H. Adams, M. J. Morris, P. Mountford, R. Patel, and S. E. Spey, *J. Chem. Soc., Dalton Trans.*, 2001, 2601-2610.
124. "Tetrakis(dimethylamido)vanadium". S. R. Dubberley, B. R. Tyrrell and P. Mountford, *Acta Crystallogr.*, 2001, **C57**, 902-4.
123. "Group 5 imido complexes supported by diamido-pyridine ligands: aryloxide, amide, benzamidinate, alkyl and cyclopentadienyl derivatives", S. M. Pugh, D. J. M. Trösch, M. E. G. Skinner, L. H. Gade and P. Mountford, *Organometallics*, 2001, **20**, 3531-3542.
122. "C-N coupling reactions of allenes and methylacetylenes with an imidotitanium complex". D. J. M. Trösch, P. E. Collier, A. Bashall, L. H. Gade, M. McPartlin, P. Mountford and S. Radojevic, *Organometallics*, 2001, **20**, 3308-3313.
121. "Double substrate insertion versus isocyanate extrusion in reactions of imidotitanium complexes with CO₂: critical dependence on imido N-substituents", A. E. Guiducci, A. R. Cowley, M. E. G. Skinner and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 2001, 1392-1394 (communication).
120. "Group 5 imido complexes derived from diamido-pyridine ligands". S. M. Pugh, A. J. Blake, L. H. Gade and P. Mountford, *Inorg. Chem.*, 2001, **40**, 3992-4001.
119. "A structurally characterised, naked sp³-hybridised carbanion in the zwitterionic imido complex [Ti(N^tBu){C(Me₂pz)₃}Cl(THF)] (HMe₂pz = 3,5-dimethylpyrazole)". S. C. Lawrence, M. E. G. Skinner, J. C. Green and P. Mountford, *Chem. Commun.*, 2001, 705-706.
118. "Reactions of CpNb(NAr)Me₂ with H₂ and HSiMe₂Cl. Molecular structure of [CpNb(μ-NAr)Me]₂ (Ar = 2,6-C₆H₃ⁱPr₂)". G. I. Nikonov, P. Mountford, L. G. Kuzmina, J. A. K. Howard, D. A. Lemenovskii, and D. M. Roitershtein *J. Organomet. Chem.*, 2001, **628**, 25-29.
117. "New main group and early transition metal complexes of mono-pendant arm triazacyclononane ligands". S. Y. Bylikin, D. A. Robson, N. A. H. Male, L. H. Rees, P. Mountford and M. Schröder, *J. Chem. Soc., Dalton Trans.*, 2001, 170-180.
116. "New transition metal imido chemistry with diamido-donor ligands". L. H. Gade and P. Mountford, *Coord. Chem. Rev.*, 2001, **216-217**, 65-97.
115. "Group 4 imido complexes stabilized by a tridentate diamido-donor ligand". A. J. Blake, P. E. Collier, L. H. Gade, J. Lloyd, P. Mountford, S. M. Pugh, M. Schubart, M. E. G. Skinner and D. J. M. Trösch, *Inorg. Chem.*, 2001, **40**, 870-877.
114. "Titanium *tert*-butyl and trimethylsilyl imido complexes with mono-pendant arm triazacyclononane ligands". J. D. Gardner, D. A. Robson, L. H. Rees and P. Mountford, *Inorg. Chem.*, 2001, **40**, 820-824.
113. "Neutral and cationic organometallic aluminium and indium complexes of mono-pendant arm triazacyclononane ligands". D. A. Robson, S. Y. Bylikin, M. Cantuel, N. A. H. Male, L. H. Rees, P. Mountford and M. Schröder, *J. Chem. Soc., Dalton Trans.*, 2001, 157-169.
112. "Macrocyclic-supported titanium complexes with chelating imido ligands: new analogs of *ansa*-metallocenes". N. A. H. Male, M. E. G. Skinner, S. Y. Bylikin, P. J. Wilson, P. Mountford and M. Schröder, *Inorg. Chem.*, 2000, **39**, 5483-5491.
111. "New early transition metal imido complexes with mono-deprotonated triazacyclononane ligands". J. S. Fletcher, N. A. H. Male, P. J. Wilson, L. H. Rees, P. Mountford, and M. Schröder, *J. Chem. Soc., Dalton Trans.*, 2000, 4130-4137.

110. "C-C and C-N coupling reactions of an imidotitanium complex with isocyanides". A. Bashall, L. H. Gade, M. McPartlin, P. Mountford, S. M. Pugh, S. Radojevic, M. Schubart, I. J. Scowen and D. J. M. Trösch, *Organometallics*, 2000, **19**, 4784-4794.
109. "Cycloaddition Reactions of the Titanium Imido Complex [Ti(NBu^t){MeC(2-C₅H₄N)(CH₂NSiMe₃)₂}(py)] with MeCN and ^tBuCP". S. M. Pugh, D. J. M. Trösch, D. J. Wilson, A. Bashall, F. G. N. Cloke, L. H. Gade, P. B. Hitchcock, M. McPartlin, J. F. Nixon, and P. Mountford, *Organometallics*, 2000, **19**, 3205-3210.
108. "An unprecedented coordination mode for pendant-arm functionalised 1,4,7-triazacyclononanes and the synthesis of cationic organo-aluminium complexes". D. A. Robson, L. H. Rees, M. Schröder and P. Mountford, *Chem. Commun.*, 2000, 1269-1270.
107. "A new versatile diamide-diamine donor ligand set in early transition metal chemistry". M. E. G. Skinner, D. A. Cowhig and P. Mountford, *Chem. Commun.*, 2000, 1167-1168.
106. "Ansa-linked titanium macrocycle-imido complexes". N. A. H. Male, M. E. G. Skinner, P. J. Wilson, P. Mountford and M. Schröder, *New J. Chem.*, 2000, **24**, 575-577.
105. "Contrasting non-classical silicon-hydrogen interactions in niobium and tantalum half-sandwich complexes: Si-H...M agostic versus M-H...Si-Cl interligand hypervalent interactions". G. I. Nikonov, P. Mountford, J. C. Green, P. A. Cooke, M. A. Leech, A. J. Blake, J. A. K. Howard and D. A. Lemenovskii, *Eur. J. Inorg. Chem.*, 2000, 1917-1921.
104. "Titanium imido complexes containing 1,3,5-triazacyclohexane ligands". P. J. Wilson, A. J. Blake, P. Mountford and M. Schröder, *J. Organomet. Chem.*, 2000, **600**, 71-83.
103. "Titanium and niobium imido complexes derived from diamidoamine ligands". S. M. Pugh, H. S. C. Clark, J. B. Love, A. J. Blake, F. G. N. Cloke, and P. Mountford, *Inorg. Chem.*, 2000, **39**, 2001-2005.
102. "Organometallic chemistry with N and O π -donor ligands". P. Mountford, *J. Organomet. Chem.*, 1999, **591**, 1.
101. "New titanium imido complexes containing piperazine-based tetradentate ligands". J. Lloyd, S. Z. Vatsadze, D. A. Robson, A. J. Blake and P. Mountford, *J. Organomet. Chem.*, 1999, **591**, 114-126 (invited contribution to special issue).
100. "One- and two-step [2+2] cyclo-addition reactions of Group 4 imides with the phospho-alkyne Bu^tCP. Crystal and molecular structures of [Zr(η^5 -C₅H₅)₂(PCBu^tNC₆H₃Me₂)] and [TiCl₂(P₂C₂Bu^t₂NBu^t)(pyridine)]". F. G. N. Cloke, P. B. Hitchcock, J. F. Nixon, D. J. Wilson and P. Mountford, *Chem. Commun.*, 1999, 661-662.
99. "Theoretical study of the geometric and electronic structures of pseudo-octahedral d⁰ imido compounds of titanium: the *trans* influence in [Ti(NR)Cl₂(NH₃)₃] (R = Bu^t, C₆H₅ and 4-C₆H₄NO₂)". N. Kaltsoyannis and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1999, 781-789.
98. "Titanium imido complexes with 1,3,5-triazacyclohexane ligands: syntheses, solution dynamics and solid state structures". P. J. Wilson, P. A. Cooke, A. J. Blake, P. Mountford and M Schröder, *New J. Chem.*, 1999, **23**, 271-273.
97. "Cycloaddition reactions of titanium and zirconium imido, oxo and hydrazido complexes supported by tetraaza macrocyclic ligands". A. J. Blake, J. M. McInnes, P. Mountford, G. I. Nikonov, D. Swallow, and D. J. Watkin, *J. Chem. Soc., Dalton Trans.*, 1999, 379-391.
96. "Reactions of titanium imido complexes with α -diimines: complexation versus Ti=N/C=N bond metathesis". J. M. McInnes, A. J. Blake and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1998, 3623-3623.
95. "C-H Bond activation and C-N-coupling reactions of methylacetylenes and allenes with an imidotitanium complex". A. Bashall, P. E. Collier, L. H. Gade, M. McPartlin, P. Mountford, and D. J. M. Trösch, *Chem. Commun.*, 1998, 2555-2556.
94. "Titanium imido complexes with tetradentate schiff base ligands". J. M. McInnes, D. Swallow, A. J. Blake and P. Mountford, *Inorg. Chem.*, 1998, **37**, 5970-5977.
93. "New binuclear alkyl and half-sandwich cyclopentadienyl imido titanium complexes containing acetamidinate and benzamidinate supporting ligands". P. J. Stewart, A. J. Blake and P. Mountford, *J. Organomet. Chem.*, 1998, **564**, 209-214.
92. "Transition metal imide/organic imine metathesis reactions: unexpected observations". J. M. McInnes and P. Mountford, *Chem. Commun.*, 1998, 1669-1670.
91. "New titanium complexes containing an amidinate-imide supporting ligand set: cyclopentadienyl, alkyl, borohydride, aryloxy and amide derivatives". P. J. Stewart, A. J. Blake and P. Mountford, *Organometallics*, 1998, **17**, 3271-3281.
90. "Titanium Imido Complexes with Tetraaza Macrocyclic Ligands". D. Swallow, J. M. McInnes and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1998, 2253-2259.
89. "Synthesis and Molecular and Electronic Structure of Monomeric [Ti(η^8 -C₈H₈)(NBu^t)]". A. J. Blake, S. C. Dunn, J. C. Green, N. M. Jones, A. G. Moody and P. Mountford, *Chem. Commun.*, 1998, 1235-1236.
88. "Syntheses and structures of a new class of aza- and thio-ether macrocyclic d⁰ imido complexes". P. J. Wilson, A. J. Blake, P. Mountford and M Schröder, *Chem. Commun.*, 1998, 1007-1008.
87. "Tetraaza[14]annulenes: versatile ligands for transition and main group metals". P. Mountford, *Chem. Soc. Rev.*, 1998, **27**, 105-115.
86. "Bis(2-hydroxyethyl)(2-nitrobenzyl)ammonium Bromide". A. J. Blake, N. R. Champness, W.-S. Li, P. Mountford, M. Schröder, and P. J. Wilson, *Acta Crystallogr. C.*, 1998, **54**, IUC9800020.

85. "1,4-Bis(2-aminobenzyl)-1,4-diazacyclohexane". W.-S. Li, S. Z. Vatsadze, A. J. Blake and P. Mountford, *Acta Crystallogr. C.*, 1998, **54**, IUC9800019.
84. "New Titanium Imido Chemistry". P. Mountford, *Chem. Commun.*, 1997, 2127-2134 (Feature Article review).
83. "Mononuclear and binuclear titanium imido complexes supported by aryloxo ligands: fine control by ortho-substituents". P. E. Collier, A. J. Blake and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1997, 2911-2919.
82. "Exo binding of Na⁺ between two fused calix[4]arenes and endo binding of Na⁺ within the calix[4]arene cones in the disodium salt of 1,3-dimethyl ether *p-tert*-butylcalix[4]arene". S. R. Dubberley, A. J. Blake and P. Mountford, *Chem. Commun.*, 1997, 1603-1604.
81. "Highly selective trimerisation of MeNC by a novel titanium imido complex containing a tridentate dianionic ligand". A. J. Blake, P. E. Collier, L. H. Gade, M. McPartlin, P. Mountford, M. Schubart, and I. J. Scowen, *Chem. Commun.*, 1997, 1555-1556.
80. "Titanium imido complexes supported by amidinate ligands: synthesis, solution dynamics and solid state structures". P. J. Stewart, A. J. Blake and P. Mountford, *Inorg. Chem.*, 1997, **36**, 3616-3622.
79. "Ansa-η-cyclopentadienylimido derivatives of niobium". D. A. Antonelli, P. T. Gomes, M. L. H. Green and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1997, 2435-2444.
78. "Ansa-bridged η-cyclopentadienyl imido and amido derivatives of titanium, zirconium, niobium and molybdenum". P. T. Gomes, M. L. H. Green, A. M. Martins and P. Mountford, *J. Organomet. Chem.*, 1997, **541**, 121-125.
77. "trans-Bis{dichloro(η-isopropylcyclopentadienyl)tungsten}". M. L. H. Green and P. Mountford, in *Synthetic Methods of Organometallic and Inorganic Chemistry*, p105, Vol 8, Ed. W. A. Herrmann, Thieme, 1997.
76. "Bis[N-(2,6-diisopropylphenyl)amido] [N-(2,6-diisopropylphenyl)imido] bis(pyridine-N) zirconium". A. J. Blake, P. Mountford and G. I. Nikonov, *Acta Crystallogr. C.*, 1997, **53**, 874-876.
75. "Synthesis and imido group exchange reactions of *tert*-butyl imido titanium complexes". A. J. Blake, P. E. Collier, S. C. Dunn, W.-S. Li, P. Mountford and O. V. Shishkin, *J. Chem. Soc., Dalton Trans.*, 1997, 1549-1558.
74. "Mononuclear niobium imido and oxo complexes supported by *N,N'*-Bis(trimethylsilyl)benzamidinate ligands. X-ray structures of [Nb(NBu^t){PhC(NSiMe₃)₂}Cl₂(py)] and [Nb(O){(4-C₆H₄Me)C(NSiMe₃)₂}₂Cl]". P. J. Stewart, A. J. Blake and P. Mountford, *Inorg. Chem.*, 1997, **36**, 1982-1986.
73. "Mononuclear amido and binuclear imido zirconium complexes supported by dibenzotetraaza[14]anulene Ligands. X-ray structure of [(tmtaa)Zr(μ-NR)₂Zr(NHR)₂] (R = Bu^t or 2,6-C₆H₃Pr₂)". G. I. Nikonov, A. J. Blake and P. Mountford, *Inorg. Chem.*, 1997, **36**, 1107-1112.
72. "Cyclopentadienyl, indenyl and bis(cyclopentadienyl) imidotitanium Complexes". S. C. Dunn, P. Mountford and D. A. Robson, *J. Chem. Soc., Dalton Trans.*, 1997, 293-304.
71. "Reactions of [Cp₂Ti(NBu^t)(py)] with S-H Bonds and synthesis of [Cp₂Ti(μ-S)₂TiCp₂]" P. Mountford, *J. Organomet. Chem.*, 1997, **528**, 15-18 (invited contribution to special issue).
70. "Cycloaddition reactions of tetraaza macrocycle supported Group 4 imido complexes and reversible addition of aryl isocyanate to a co-ordinated ureate ligand". A. J. Blake, P. Mountford, G. I. Nikonov, D. Swallow, *Chem. Commun.*, 1996, 1835-1836.
69. "[N-(2,6-Diisopropylphenyl)-N-trimethylsilyl]amido-N] (pyridine-N) (diethyl ether-O)lithium". A. J. Blake, P. Mountford and G. I. Nikonov, *Acta Crystallogr. C.*, 1996, **52**, 1911-1913.
68. "Synthesis, structure and properties of Fe-Mo and Fe-W fulvalene-bridged heterobimetallic complexes". M. J. Begley, P. Mountford, P. J. Stewart, D. Swallow and S. Wan, *J. Chem. Soc., Dalton Trans.*, 1996, 1323-1332.
67. "New mono- and bi-nuclear *ansa*-metallocenes of zirconium and hafnium as catalysts for the polymerisation of ethene and propene". G. M. Diamond, A. N. Chernega, P. Mountford and M. L. H. Green, *J. Chem. Soc., Dalton Trans.*, 1996, 921-938.
66. "Imidotitanium tris(pyrazolyl)hydroborates: synthesis, solution dynamics and solid state structure". S. C. Dunn, P. Mountford and O. V. Shishkin, *Inorg. Chem.*, 1996, **35**, 1006-1012.
65. "New titanium and zirconium sandwich and half-sandwich complexes containing the C₃Me₄CH₂CH₂CH=CH₂ (Cp⁻) ligand". K. A. Butakoff, D. A. Lemenovskii, P. Mountford, L. G. Kuz'mina and A. V. Churakov, *Polyhedron*, 1996, **15**, 489-499.
64. "Exchange of terminal organoimido groups at mononuclear titanium centres and a crystallographic evaluation of the relative structural influences of the NBu^t, N-4-C₆H₄Me and N-4-C₆H₄NO₂ ligands", P. E. Collier, S. C. Dunn, P. Mountford, O. V. Shishkin and D. Swallow, *J. Chem. Soc., Dalton Trans.*, 1995, 3743-3745 (communication).
63. "A 'direct' relationship between E=Ti-L bond angle and Ti=E bond length can exist in [Ti(E)L₄] complexes (E = organoimido or oxo)". P. Mountford and D. Swallow, *J. Chem. Soc., Chem. Commun.*, 1995, 2357-2358.
62. "The lanthanide-hydrogen-transition metal compounds: [{(PMe₃)₃WH₅}₂Yb·L₃] and [{(η-C₅H₅)₂NbH₂}₂Yb·L₃] where L₃ = (MeOCH₂CH₂)₂O, and related studies". D. M. Michaelidou, M. L. H. Green, A. K. Hughes, P. Mountford and A. N. Chernega, *Polyhedron*, 1995, **14**, 2663-2675.
61. "Insertion of ClPPH₂ into a Ta-H bond: synthesis and structure of the first phosphido derivative of tantalocene". G. I. Nikonov, L. G. Kuz'mina, P. Mountford and D. A. Lemenovskii, *Organometallics*, 1995, **14**, 3588-3591.

60. "Reactions of the μ -alkyne dimer $[W_2(\eta-C_5H_4Pr^i)_2Cl_4(\mu-C_2Et_2)]$: synthesis and bonding analysis of a μ -alkyne: μ -imido bridged ditungsten complex". M. L. H. Green, P. C. McGowan and P. Mountford, *J. Chem. Soc., Dalton Trans*, 1995, 1207-1214.
58. "Crown thioether chemistry. Rhenium (II) bis(1,4,7-trithiacyclononane), the first homoleptic thioether complex of rhenium". S. O. C. Matondo, P. Mountford, D. J. Watkin and S. R. Cooper, *J. Chem. Soc., Chem. Commun.*, 1995, 161-162.
58. "Bis- η -cyclopentadienylimidomolybdenum Compounds". M. L. H. Green, P. C. Konidaris, D. M. Michaelidou and P. Mountford, *J. Chem. Soc., Dalton Trans*, 1995, 155-162.
57. "New Fe-Mo and Fe-W fulvalene-bridged heterobimetallic complexes containing the ferrocenyl Unit: X-ray structure of $[(\eta-C_5H_5)Fe(\mu-\eta:\eta-C_5H_4-Ind)Mo(CO)_2(\eta-C_3H_5)]$ (Ind = 1-indenyl)". S. Wan, M. J. Begley and P. Mountford, *J. Organomet. Chem.*, 1995, **489**, C28-C31.
56. "Synthesis of permethylindenyl complexes of the early transition metals. Crystal structures of $Ti(\eta^5-C_9Me_7)Cl_3$ and $Zr(\eta^5-C_9Me_7)_2Cl_2$ ". D. O'Hare, V. Murphy, G. M. Diamond, P. Arnold and P. Mountford, *Organometallics*, 1994, **13**, 4689-4694.
55. " η -Cyclopentadienyl-imido molybdenum chemistry: hydrido, alkyl and η -allyl derivatives". M. L. H. Green, P. C. Konidaris and P. Mountford, *J. Chem. Soc., Dalton Trans*, 1994, 2975-2982.
54. "A general route to sandwich and half-sandwich titanium imido complexes: X-ray structure of $[(Me_8taa)Ti(N^iBu)]$ ". S. C. Dunn, A. S. Batsanov and P. Mountford, *J. Chem. Soc., Chem. Commun.*, 1994, 2007-2008.
53. " η -Cyclopentadienyl-imido complexes of molybdenum and tungsten". M. L. H. Green, P. C. Konidaris and P. Mountford, *J. Chem. Soc., Dalton Trans*, 1994, 2851-2859.
52. "A study of the reactivity of *nido*-2- $[Fe(\eta-C_5H_5)]B_5H_{10}$ with some transition metal hydride complexes". H. J. Bullick, P. D. Grebenik, M. L. H. Green, A. K. Hughes, J. B. Leach and P. Mountford, *J. Chem. Soc., Dalton Trans*, 1994, 3337-3342.
51. "The molecular and electronic structures of bis(bis{1,4-trimethylsilyl}cyclooctatetraene) sandwich complexes of titanium and zirconium". F. G. N. Cloke, J. C. Green, P. B. Hitchcock, S. C. P. Joseph, P. Mountford, N. Kaltsoyannis and A. McCamley, *J. Chem. Soc., Dalton Trans*, 1994, 2867-2874.
50. "Pseudohalogen chemistry XI. Some aspects of the chemistry of α -thiocyanato- β -dicarbonyl compounds". E. F. Atkins, S. Dabbs, R. G. Guy, A. A. Mahomed and P. Mountford, *Tetrahedron*, 1994, **50**, 7253-7264.
49. "An unexpected explanation for the unsymmetrically bridging alkyne ligand in $[W_2(\eta-C_5H_4Pr^i)_2Br_4(\mu-C_2Ph_2)]$ ". P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1994, 1843-1848.
48. "New metallocene compounds of zirconium and hafnium showing unusual *ansa*-ligand coordination: X-ray structures of $[{(CH_2)_5C(\eta-C_5H_4)(\eta-C_9H_6)}Zr(\eta-C_5H_5)Cl]$ and $[{Me_2C(\eta-C_5H_4)(\eta-C_{13}H_8)}Zr(\eta-C_5H_5)Cl]$ ". G. M. Diamond, M. L. H. Green, P. Mountford, N. A. Popham and A. N. Chernega, *J. Chem. Soc., Chem. Commun.*, 1994, 103-105.
47. "One-dimensional antiferromagnetic cycloheptatrienyl molybdenum and tungsten compounds". M. L. H. Green, A. Harrison, P. Mountford and D. K. P. Ng, *J. Chem. Soc., Dalton Trans*, 1993, 2215-2221.
46. "Synthesis, structure and dynamic behaviour of $[Nb(\eta-C_5H_5)_2(\sigma-C_5H_5)(NBu^i)]$ ". M. L. H. Green, D. M. Michaelidou, P. Mountford, A. G. Suarez and L.-L. Wong, *J. Chem. Soc., Dalton Trans*, 1993, 1593-1597.
45. "New lanthanide-hydrogen -transition metal compounds: $[{(PMe_3)_3WH_5}_2Yb]$ and $[{(\eta-C_5H_5)_2NbH_2}_2YbL_3]$ where $L_3 = (MeOCH_2CH_2)_2O$ ". M. L. H. Green, A. K. Hughes, D. M. Michaelidou and P. Mountford, *J. Chem. Soc., Chem. Commun.*, 1993, 591-592.
44. "Double host-guest chemistry. sodium cation environments in MPS_3 (M = Mn, Cd, Zn) crown ether intercalates". D. S. Glueck, A. R. Brough, P. Mountford and M. L. H. Green, *Inorg. Chem.*, 1993, **32**, 1893-1902.
43. "Tertiary phosphine adducts of $[W_2(\mu-O_2CBu^i)_4]$: X-ray structure of $[W_2(\mu-O_2CBu^i)_3(O_2CBu^i)(PMe_2Ph)_2]$ ". P. Mountford and J. A. G. Williams, *J. Chem. Soc., Dalton Trans*, 1993, 877-883.
42. "Some chemistry of half-sandwich η -arene tungsten compounds". M. L. H. Green, A. K. Hughes, P. Lincoln, J. J. Martin-Polo, P. Mountford, A. Sella, L.-L. Wong, J. A. Bandy, T. W. Banks, K. Prout and D. J. Watkin, *J. Chem. Soc., Dalton Trans.*, 1992, 2063-2069.
41. "Cycloheptatriene and -enyl derivatives of niobium". M. L. H. Green, A. K. Hughes, P. C. McGowan, P. Mountford, P. Scott and S. J. Simpson, *J. Chem. Soc., Dalton Trans.*, 1992, 1591-1600.
40. "Half-sandwich η -cycloheptatriene and -enyl derivatives of titanium and zirconium". G. M. Diamond, M. L. H. Green, P. Mountford and N. M. Walker, *J. Chem. Soc., Dalton Trans.*, 1992, 2259-2261.
39. "Synthesis and molecular structures of the sandwich anion $[K(18-crown-6)][Nb(\eta-C_7H_7)(\eta-C_5H_5)]$ and cation $[Nb(\eta-C_7H_7)(\eta-C_5H_4Me)(thf)]PF_6$ ". M. L. H. Green, P. Mountford, V. S. B. Mtetwa, P. Scott, and S. J. Simpson, *J. Chem. Soc., Chem. Commun.*, 1992, 314-315.
38. "Synthesis and reactions of η -cycloheptatriene and η -cycloheptatrienyl derivatives of zirconium and hafnium". G. M. Diamond, M. L. H. Green, P. Mountford, N. M. Walker, and J. A. K. Howard, *J. Chem. Soc., Dalton Trans.*, 1992, 417-422.
37. "Synthesis and characterisation of $[arachno-3-Ru(\eta-C_5Me_5)(PMe_3)_2B_4H_9]$ ". P. D. Grebenik, M. L. H. Green, M. A. Kelland, J. B. Leach, and P. Mountford, *N. J. Chem.*, 1992, **16**, 19-20.

36. "Synthesis of η -4-cyclopentadienylidene-4-imidopropyl niobium derivatives $[\text{Nb}(\eta\text{-}\sigma\text{-C}_5\text{H}_4(\text{CH}_2)_3\text{N})\text{Cl}_2]$ and $[\text{Nb}(\eta\text{-}\sigma\text{-C}_5\text{H}_4(\text{CH}_2)_3\text{N})\text{Cl}_2(\text{PMe}_3)]$ ". D. M. Antonelli, M. L. H. Green and P. Mountford, *J. Organomet. Chem.*, 1992, **438**, C4-C8.
35. "Bis(η -cyclopentadienyl)-molybdenum and -tungsten imido complexes: X-ray structures of $[\text{Mo}(\eta\text{-C}_5\text{H}_5)_2(\text{NBu}^t)]$ and $[\text{Mo}(\eta\text{-C}_5\text{H}_4\text{Me})_2(\text{NBu}^t)\text{Me}]$ ". J. C. Green, M. L. H. Green, J. T. James, P. C. Konidaris, G. Maunder and P. Mountford, *J. Chem. Soc., Chem. Commun.*, 1992, 1361-1365.
34. "Synthesis, electronic and molecular structures of (η -cycloheptatrienyl)(η -cyclopentadienyl) derivatives of vanadium, niobium and tantalum: a phototelectron spectroscopic, electrochemical and X-ray crystallographic study". J. C. Green, M. L. H. Green, N. Kaltsoyannis, P. Mountford, P. Scott, and S. J. Simpson, *Organometallics*, 1992, **11**, 3353-3361
33. "Alkyne addition and coupling reactions of $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{R})_2\text{X}_4]$ (X = Cl or Br)". Q. Feng, M. L. H. Green and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1992, 2171-2181.
32. " η -Cyclopentadienyl molybdenum imido compounds; halo, olefin, alkyne, allyl and tertiary phosphine derivatives". M. L. H. Green, P. C. Konidaris, P. Mountford, and S. J. Simpson, *Chem. Soc., Chem. Commun.*, 1992, 256-259.
31. "Cyclopentadienyl molybdenum and tungsten dihalides". M. L. H. Green and P. Mountford, *Chem. Soc. Revs.*, 1992, **21**, 29-38.
30. "The reactions of $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{R})_2\text{X}_4]$ (X = Cl or Br) with Lewis bases and synthesis of a perpendicular bridging iminoacyl ligand in $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{Pr}^i)_2\text{Cl}_4(\mu\text{-EtCNH})(\mu\text{-Cl})]$ ". Q. Feng, M. Ferrer, M. L. H. Green, P. Mountford, and V. S. B. Mtetwa, *J. Chem. Soc., Dalton Trans.*, 1992, 1205-1215.
29. "Synthesis, structure and reactivity of new low-valent mono(η -arene)niobium compounds". M. L. H. Green, D. O'Hare, P. Mountford, and J. G. Watkin, *J. Chem. Soc., Dalton Trans.*, 1991, 1705-1715.
28. "Preparation and characterisation of anionic bis(η -cyclopentadienyl)niobium complexes: molecular structure of $[\text{K}(18\text{-crown-6})][\text{Nb}(\eta\text{-C}_5\text{H}_5)_2(\text{SnMe}_3)_2]$ ". M. L. H. Green, A. K. Hughes, and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1991, 1699-1704.
27. "Synthesis and reactivity of bis- η -cyclopentadienyl trimethyltin derivatives of niobium: crystal and molecular structure of $\{[\text{Nb}(\eta\text{-C}_5\text{H}_5)_2(\text{SnMe}_3)_2(\mu\text{-O})]\}$ ". M. L. H. Green, A. K. Hughes, and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1991, 1407-1416.
26. "New cycloheptatriene and cycloheptatrienyl derivatives of niobium". M. L. H. Green, P. Mountford, V. S. B. Mtetwa, and P. Scott, *Polyhedron*, 1991, **10**, 389-392.
25. "Oxidative addition reactions of $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{Pr}^i)_2\text{X}_4]$ (R = Prⁱ, Me; X = Cl, Br): reversible addition of dihydrogen to a tungsten-tungsten triple bond and X-ray crystal structures of $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{Pr}^i)_2\text{Cl}_4(\mu\text{-H})(\mu\text{-PPh}_2)]$ and $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{Pr}^i)_2\text{Cl}_3(\mu\text{-Cl})(\mu\text{-H})(\mu\text{-PPh}_2)(\text{PMe}_3)]$ ". Q. Feng, M. Ferrer, M. L. H. Green, P. Mountford, V. S. B. Mtetwa, and K. Prout, *J. Chem. Soc., Dalton Trans.*, 1991, 1397-1406.
24. "Synthesis and structure of a perpendicular bridging alkylideneamine ligand in $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{Pr}^i)_2\text{Cl}_4(\mu\text{-Cl})(\mu\text{-EtCNH})]$ ". Q. Feng, M. Ferrer, M. L. H. Green, P. C. McGowan, P. Mountford, and V. S. B. Mtetwa, *J. Chem. Soc., Chem. Commun.*, 1991, 552-553.
23. "Chloride-supported tungsten alkyne complexes. Molecular and electronic structures of $[\text{W}_2\text{Cl}_4(\mu\text{-Cl})_2(\mu\text{-C}_2\text{R}_2)(\text{THF})_2]$ (R = H, Me) and $[\text{WCl}_4(\eta\text{-C}_2\text{Me}_2)(\text{THF})]$ ". S. G. Bott, D. L. Clark, M. L. H. Green, and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1991, 471-481.
22. "New synthetic pathways into the organometallic chemistry of gallium". M. L. H. Green, P. Mountford, G. J. Smout, and S. R. Speel, *Polyhedron*, 1990, **9**, 2763-2765.
21. "Linear chain organometallic electron-transfer complexes. Synthesis, crystal structures and magnetic properties of 1:1 and 2:1 decamethylferrocenium salts of tris[bis(trifluoromethyl)ethylene-1,2-dithiolato]molybdate anions". W. B. Heuer, P. Mountford, M. L. H. Green, S. G. Bott, D. O'Hare, and J. S. Miller, *Chem. Materials*, 1990, **2**, 764-772.
20. "Synthesis of small *nido*-ferrapentaboranes; a novel borane-capped *nido*-diferrapentaborane". P. D. Grebenik, M. L. H. Green, M. A. Kelland, J. B. Leach, and P. Mountford, *J. Chem. Soc., Chem Commun.*, 1990, 1234-1236.
19. "Niobium metallaboranes; a novel metallaborane analogue of pentaborane(11)". P. D. Grebenik, M. L. H. Green, J. B. Leach, P. Mountford, and J. M. Pounds, *J. Organomet. Chem.*, 1990, **382**, C1-C5.
18. "Studies on the synthesis and electrochemistry of crown ether dithiocarbamates and the molecular dynamics of bis(aza-15-crown-5)thiuram disulphide. Crystal structure of cobalt tris[(aza-15-crown-5)dithiocarbamate]". J. Cranell, M. L. H. Green, V. J. Lowe, S. R. Marder, P. Mountford, G. C. Saunders, and N. M. Walker, *J. Chem. Soc., Dalton Trans.*, 1990, 605-614.
17. "The interconversion of oxo and imido ligands at a dimolybdenum centre: molecular and electronic structure of $[\text{Mo}(\eta\text{-C}_5\text{H}_4\text{Me})(\text{NPh})(\mu\text{-NPh})_2]$ ". M. L. H. Green, G. Hogarth, P. C. Konidaris, and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1990, 3781-3787.
16. "Synthesis of the W \equiv W triply-bonded dimers $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{R})_2\text{X}_4]$ (X = Cl or Br; R = Me or Prⁱ) and X-ray crystal structures of $[\text{W}(\eta\text{-C}_5\text{H}_4\text{Pr}^i)\text{Cl}_4]$ and $[\text{W}_2(\eta\text{-C}_5\text{H}_4\text{Pr}^i)_2\text{Cl}_4]$ ". M. L. H. Green, J. D. Hubert, and P. Mountford, *J. Chem. Soc., Dalton Trans.*, 1990, 3793-3800.
15. "Investigation of the electronic structures of η -cyclopentadienyl transition metal dihalide dimers". J. C. Green, M. L. H. Green, P. Mountford, and M. J. Parkington, *J. Chem. Soc., Dalton Trans.*, 1990, 3407-3418.

14. "The interconversion of oxo and imido ligands at a dimolybdenum centre: X-ray crystal structure of $[\text{Mo}(\eta\text{-C}_5\text{H}_4\text{Me})(\text{NPh})(\mu\text{-NPh})_2]$ ". M. L. H. Green, G. Hogarth, P. C. Konidaris, and P. Mountford, *J. Organomet. Chem.*, 1990, **394**, C9-C15.
13. "The reactions of $[(\eta\text{-C}_5\text{H}_4\text{R})_2\text{W}_2\text{Cl}_4]$ (R = Me or Prⁱ) with alkynes: X-ray crystal structures of $[(\eta\text{-C}_5\text{H}_4\text{Me})_2\text{W}_2\text{Cl}_4(\mu\text{-C}_4\text{Me}_4)]$ and $[(\eta\text{-C}_5\text{H}_4\text{Me})_2\text{W}_2\text{Cl}_2(\text{O})(\mu\text{-C}_4\text{Me}_4)]$ ". M. L. H. Green and P. Mountford, *Organometallics*, 1990, **9**, 886-888.
12. "Reversible dihydrogen addition to a tungsten-tungsten triple bond: X-ray crystal structure of $\{[\text{W}(\eta\text{-C}_5\text{H}_5\text{Pr}^i)\text{Cl}_2]_2\}$ ". M. L. H. Green and P. Mountford, *J. Chem. Soc., Chem. Commun.*, 1989, 732-734.
11. "Synthesis and X-ray crystal structure of the ditungsten dimetallatetrahydrane complex, $[\text{W}_2\text{Cl}_4(\mu\text{-Cl})_2(\mu\text{-C}_2\text{Me}_2)(\text{THF})_2]$ ". S. G. Bott, D. L. Clark, M. L. H. Green, and P. Mountford, *J. Chem. Soc., Chem. Commun.*, 1989, 418-419.
10. "Terminal substitution and cage incorporation of an η -cyclopentadienyl ring into boron cage structures; crystal structures of $[\text{Mo}(\eta\text{-C}_5\text{H}_5)(\eta\text{-}\eta\text{-C}_5\text{H}_4)\text{B}_4\text{H}_7]$ and $[\text{Mo}(\eta\text{-C}_5\text{H}_5)(\eta\text{-}\eta\text{-C}_3\text{H}_3)\text{C}_2\text{B}_9\text{H}_9]$ ". P. D. Grebenik, M. L. H. Green, M. A. Kelland, J. B. Leach, and P. Mountford, *J. Chem. Soc., Chem. Commun.*, 1989, 1397-1399.
9. "Half-sandwich compounds of zirconium (ii): the synthesis of $[\text{Zr}(\eta\text{-C}_7\text{H}_7)(\text{PMe}_3)_2\text{Cl}_2]$ ". M. L.H. Green, P. Mountford, and N. M. Walker, *J. Chem. Soc., Chem. Commun.*, 1989, 908-909.
8. "Formation of three-vertex metallaboranes from mono-borane precursors: X-ray crystal structures of $[\text{Mo}(\eta\text{-C}_5\text{H}_5)_2\text{H}(\eta\text{-B}_2\text{H}_5)]$ and $[\text{Ru}(\eta\text{-C}_5\text{Me}_5)(\text{PMe}_3)(\eta\text{-B}_2\text{H}_7)]$ ". P. D. Grebenik, M. L. H. Green, M. A. Kelland, J. B. Leach, P. Mountford, G. Stringer, N. M. Walker, and L-L Wong, *J. Chem. Soc., Chem Commun.*, 1988, 799-801.
7. "Reactions of α -thiocyanato- β -dicarbonyl compounds: A C-S-C + C-N route to thiazoles". R. G. Guy and P. Mountford, *Tetrahedron Lett.*, 1987, **28**, 117-120.

Patents

6. "Metal complex with a Lewis base ligand". M. A. Zuidelvelde, R. T. W. Scott and P. Mountford, EP 2016/2801579.
5. "Titanium catalyst system comprising substituted cyclopentadienyl, guanidine and diene ligands." G. H. J. van Doremaele, M. A. Zuidelvelde, V. Quiorga Norambuena, P. Mountford and R. Scott, WO 2012/130921.
4. "Borane activated titanium catalyst system comprising substituted cyclopentadienyl, guanidine and diene ligands." G. H. J. van Doremaele, M. A. Zuidelvelde, V. Quiorga Norambuena, P. Mountford and R. Scott, WO 2012/130922.
3. "Ti catalyst system comprising substituted cyclopentadienyl, amidine and diene ligand". M. A. Zuidelvelde, G. H. J. van Doremaele, P. Mountford, R. T. W. Scott and A. Heath. WO 2011/076775.
2. "Imine catalyst". E. G. Ijpeij and P. Mountford. WO 2008/148499.
1. "Process for the preparation of a polymer". M. Kranenburg, G. H. J. van Doremaele, B. Wing, M. A. Zuidelvelde, N. H. Friederichs, S. C. Lawrence, S. R. Dubberley, P. Mountford. WO 2005/123790.