

1. Name: Paul Robert Raithby

2. Education

- BSc. (Honors) Chemistry, Queen Mary College, University of London, UK, 1973.
- Ph.D. Chemistry, Queen Mary College, University of London, UK, 1976.
- Sc.D. University of Cambridge, Cambridge 1994.

3. Academic Career

- Postdoctoral fellow in the Department of Organic and Inorganic Chemistry, University Chemical Laboratory, Cambridge, 1976 – 1978.
- Senior Assistant in Research, University Chemical Laboratory, Cambridge, 1981–1984.
- Fellow and College Lecturer, St Catharine's College, Cambridge, 1983 – 2000.
- Assistant Director of Research, University Chemical Laboratory, Cambridge, 1984 – 1994.
- Director of Studies in Chemistry, St Catharine's College, Cambridge, 1984 – 2000.
- University Lecturer, University Chemical Laboratory, Cambridge, 1994 – 1998.
- Reader in Structural Chemistry, Department of Chemistry, University of Cambridge, 1998– 2000.
- Professor of Inorganic Chemistry, Department of Chemistry, University of Bath, 2000 – 2021.
- Head of Department, Department of Chemistry, University of Bath, 2011 – 2012.
- Member, Bragg Lecture Fund Committee, 1991 – 2000.
- Chair of the Bragg Lecture Fund Committee, 2017 – Present.
- Emeritus Professor of Inorganic Chemistry, Department of Chemistry, University of Bath, 2022 - Present

4. Teaching

- Taught Inorganic and Structural Chemistry at the Department of Chemistry, University of Cambridge.
- Taught Inorganic, Structural and Materials Chemistry at the Department of Chemistry, University of Bath.

5. Supervision and Examination

(a) Ph.D. Students since 2010:

- Stefanie Schiffers – awarded 2010.
- Mark Warren – awarded 2011.
- Anna Stevenson – awarded 2011.
- Christopher Woodall – awarded 2012.
- Maria Zhelyazkova – awarded 2013.
- Thomas Robinson – awarded 2014.
- Lauren Hatcher – awarded 2014.
- Mathew Bryant – awarded 2015.
- Lucy Saunders – awarded 2016.
- Andrew Rushworth – awarded 2017.

- Antony Nearchou – awarded 2021
- Clare Stubbs – awarded 2021.

(b) M.Phil. students since 2010:

- Andrew Parlett – awarded 2013.
- Emily MacCready – awarded 2016.

(c) Thesis/Project Examination:

Examined 25 Ph.D. theses during the last five years.

6. Research Interests

- Structural inorganic and cluster chemistry
- Coordination and organo-metallic chemistry
- Sustainable energy materials
- Time-resolved Photocrystallography

7. Research Grants and Contract Support

Grants held during last ten years

<i>Title of Project</i>	<i>Funding Body</i>	<i>Award Amount</i>	<i>Duration</i>
RCaH Impact Acceleration Fellowships and Workshops	EPSRC EP/M010481/1	£65,935	2014-2016
Directed Assembly Grand Challenge Continuation	EPSRC EP/K014382/1 (joint with Makatsoris (Brunel))	£686,409	2012-2016
Applying Long-lived Metastable States with Switchable Functionality via Kinetic Control of Molecular Assembly - a Programme in Functional Materials	EPSRC EP/K004596/1 (8 Co-Is from the Department of Chemistry at Bath).	£4,099,058	2012-2018
Phase III of The Assembly Challenge Network: Discovery to Translation	EPSRC EP/P007279/1 (joint with Makatsoris (Cranfield))	£254,037	2017-2020
Understanding and Engineering Function in Switchable Molecular Crystals	EPSRC EP/K012576/1/ & EP/K012940/2 (joint with Halcrow (Leeds), Deeth (Warwick), Cooper (Oxford)).	£764,238	2013-2018
Portable femtosecond pump-probe facility (PORTO) for dynamic structural science	EPSRC EP/P001548/1 (joint with Dent (Diamond), George (Nottingham), Weinstein (Sheffield), Penfold	£465,600	2016-2019

8. Honors and Awards

- Royal Society of Chemistry, Corday-Morgan Medal and Prize, 1988.
- Royal Society of Chemistry Structural Chemistry Award, 2000.
- Elected as a Fellow of the European Academy of Sciences (EurASc), 2018.

9. Membership in Professional Organizations

- British Crystallographic Association.
- American Chemical Society.
- Royal Society of Chemistry (FRSC).
- American Crystallographic Association.

10. Services

Editorial Board Member

- Dalton Transactions, 1992-1996.
- Chemical Communications, 1997-2000.
- New Journal of Chemistry, 2001 – 2006.
- Journal of Cluster Science, 2006-2012.
- Journal of Crystallography, 2013-2016.
- Philosophical Transactions A, 2017 – present.
- Faraday Discussions, 2017 – 2022.
- Molecular Systems & Design Engineering, 2017 – 2020.

Journal Editor

2014 – present, Acta Crystallographica, Section C.

Other Memberships and Chairs

1997- present. Member of the EPSRC College

2002 – 2005 Member of the RAL/ISIS Diffraction Allocation Panel.

2003 – 2006 Chair of MAP of EPSRC National X-ray Crystallographic Service

2003 – 2004 Chair of Chemistry and Environmental Science FAP for CCLRC.

2003 – 2005 Chair of Sub-committee 5a of the ILL (Grenoble) Scientific Council

2008 – 2010 Member of the STFC Research & Development Panel

11. Publications (last 5 years)

Over **930** publications (WoS 01/11/2023) in the high impact international journals with more than **24,900** citations, h-index = **66**, and **2** patents.

1. R. Ilmi, J. Wang, J. D. L. Dutra, L. Zhou, W.-Y. Wong, P. R. Raithby and M. S. Khan, *Chemistry – A European Journal*, 2023, **29**, e202300376.
2. R. Ilmi, X. Li, N. K. Al Rasbi, L. Zhou, W.-Y. Wong, P. R. Raithby and M. S. Khan, *Dalton Trans.*, 2023, **52**, 12885-12891.
3. A. Haque, K. M. Alenezi, M. S. Khan, W.-Y. Wong and P. R. Raithby, *Chem. Soc. Rev.*, 2023, **52**, 454-472.

4. M. J. Bryant, S. Fuertes, L. E. Hatcher, L. H. Thomas and P. R. Raithby, *Faraday Discuss.*, 2023, **244**, 211-233
5. A. Nearchou, C. Dejoie, P. R. Raithby and A. Sartbaeva, *Chemistry*, 2022, **4**, 168-184.
6. R. Ilmi, D. Zhang, L. Tensi, H. Al-Sharji, N. K. Al Rasbi, A. Macchioni, L. Zhou, W.-Y. Wong, P. R. Raithby and M. S. Khan, *Dyes and Pigments*, 2022, **203**, 110300.
7. R. Ilmi, J. Yin, J. D. L. Dutra, N. K. Al Rasbi, W. F. Oliveira, L. Zhou, W.-Y. Wong, P. R. Raithby and M. S. Khan, *Dalton Trans.*, 2022, **51**, 14228-14242.
8. L. E. Hatcher, M. R. Warren, J. M. Skelton, A. R. Pallipurath, L. K. Saunders, D. R. Allan, P. Hathaway, G. Crevatin, D. Omar, B. Williams, B. Coulson, C. C. Wilson and P. R. Raithby, *Communications Chemistry*, 2022, **5**.
9. S. A. Cotton, P. R. Raithby, A. Shield and J. M. Harrowfield, *Coord. Chem. Rev.*, 2022, **455**, 214366.
10. S. A. Cotton, P. R. Raithby, S. Schiffers, S. J. Teat and J. E. Warren, *Molecules*, 2022, **27**, 2024.
11. L. Chan, S. A. Cotton, J. Dickson, A. W. G. Platt, P. R. Raithby, S. Schiffers, A. Tait and J. E. Warren, *Polyhedron*, 2022, **220**.
12. I. J. Al-Busaidi, R. Ilmi, D. Y. Zhang, J. D. L. Dutra, W. F. Oliveira, N. K. Al Rasbi, L. Zhou, W. Y. Wong, P. R. Raithby and M. S. Khan, *Dyes and Pigments*, 2022, **197**.
13. P. R. Raithby and R. Taylor, *Acta Crystallographica Section B-Structural Science Crystal Engineering and Materials*, 2021, **77**, 676-682.
14. L. Leroy, T. M. Francisco, H. J. Shepherd, M. R. Warren, L. K. Saunders, D. A. Shultz, P. R. Raithby and C. B. Pinheiro, *Inorg. Chem.*, 2021, **60**, 8665-8671.
15. R. Ilmi, D. Y. Zhang, J. D. L. Dutra, N. Dege, L. Zhou, W. Y. Wong, P. R. Raithby and M. S. Khan, *Org. Electron.*, 2021, **96**.
16. R. Ilmi, D. Zhang, J. D. L. Dutra, N. Dege, L. Zhou, W.-Y. Wong, P. R. Raithby and M. S. Khan, *Org. Electron.*, 2021, **96**, 106216.
17. A. Haque, R. Al-Balushi, I. J. Al-Busaidi, N. K. Al-Rasbi, S. Al-Bahri, M. K. Al-Suti, M. S. Khan, O. K. Abou-Zied, J. M. Skelton and P. R. Raithby, *Inorg. Chem.*, 2021, **60**, 745-759.
18. W. J. Gee, S. A. Wells, S. J. Teat, P. R. Raithby and A. D. Burrows, *New J. Chem.*, 2021, **45**, 8728-8737.
19. J. C. Cole, P. R. Raithby and R. Taylor, *Cryst. Growth Des.*, 2021, **21**, 1178-1189.
20. I. J. Al-Busaidi, R. Ilmi, J. D. L. Dutra, W. F. Oliveira, A. Haque, N. K. Al Rasbi, F. Marken, P. R. Raithby and M. S. Khan, *Dalton Trans.*, 2021, **50**, 1923-1923.
21. I. J. Al-Busaidi, R. Ilmi, J. D. L. Dutra, W. F. Oliveira, A. Haque, N. K. Al Rasbi, F. Marken, P. R. Raithby and M. S. Khan, *Dalton Trans.*, 2021, **50**, 1465-1477.
22. I. J. Al-Busaidi, A. Haque, J. Husband, N. K. Al Rasbi, O. K. Abou-Zied, R. Al Balushi, M. S. Khan and P. R. Raithby, *Dalton Trans.*, 2021, **50**, 2555-2569.
23. I. J. Al-Busaidi, A. Haque, R. A. Al-Balushi, J. A. Rather, A. Munam, R. Ilmi, P. R. Raithby, Y. M. Zhang, Y. Y. Fu, Z. Y. Xie, S. M. Chen, S. M. Islam, W. Y. Wong, J. M. Skelton and M. S. Khan, *New J. Chem.*, 2021, **45**, 15082-15095.
24. R. A. Al Balushi, M. S. Khan, M. S. H. Faizi, A. Haque, K. Molloy and P. R. Raithby, *Acta Crystallographica Section E-Crystallographic Communications*, 2021, **77**, 42-+.
25. P. R. Raithby, in *21st Century Challenges in Chemical Crystallography I: History and Technical Developments*, eds. D. M. P. Mingos and P. R. Raithby, 2020, vol. 185, pp. 239-271.
26. A. Nearchou, R. Castaing, P. R. Raithby and A. Sartbaeva, *Microporous and Mesoporous Materials*, 2020, **308**, 110479.
27. A. Nearchou, J. Armstrong, K. T. Butler, P. R. Raithby and A. Sartbaeva, *Phys. Chem. Chem. Phys.*, 2020, **22**, 14177-14186.
28. H. Mahmoudi, M. Bagherzadeh, S. Ataie, R. Kia, S. H. Moravej, M. Zare, P. R. Raithby, F. Ferlin and L. Vaccaro, *Inorg. Chim. Acta*, 2020, **511**.
29. R. Kia, T. Taghavi and P. R. Raithby, *Crystengcomm*, 2020, **22**, 6448-6452.
30. M. S. Khan, R. Ilmi, W. Sun, J. D. L. Dutra, W. F. Oliveira, L. Zhou, W.-Y. Wong and P. R. Raithby, *Journal of Materials Chemistry C*, 2020, **8**, 5600-5612.

31. R. Kaminski, D. Szarejko, M. N. Pedersen, L. E. Hatcher, P. Laski, P. R. Raithby, M. Wulff and K. N. Jarzemska, *J. Appl. Crystallogr.*, 2020, **53**, 1370-1375.
32. R. Ilmi, W. Sun, J. D. L. Dutra, N. K. Al-Rasbi, L. Zhou, P.-C. Qian, W.-Y. Wong, P. R. Raithby and M. S. Khan, *Journal of Materials Chemistry C*, 2020, **8**, 9816-9827.
33. R. Ilmi, S. Kansız, N. K. Al-Rasbi, N. Dege, P. R. Raithby and M. S. Khan, *New J. Chem.*, 2020, **44**, 5673-5683.
34. A. Haque, R. A. Al-Balushi, P. R. Raithby and M. S. Khan, *Molecules*, 2020, **25**.
35. W. J. Gee, H. J. Shepherd, D. M. Dawson, S. E. Ashbrook, P. R. Raithby and A. D. Burrows, *New J. Chem.*, 2020, **44**, 14108-14115.
36. L. K. Saunders, H. Nowell, L. E. Hatcher, H. J. Shepherd, S. J. Teat, D. R. Allan, P. R. Raithby and C. C. Wilson, *Crystengcomm*, 2019, **21**, 5249-5260.
37. S. Rajabi, S. Jamali, S. Naseri, A. Jamjah, R. Kia, H. Samouei, P. Mastroilli, H. R. Shahsavari and P. R. Raithby, *Organometallics*, 2019, **38**, 1709-1720.
38. A. Nearchou, M. L. U. Cornelius, J. M. Skelton, Z. L. Jones, A. B. Cairns, I. E. Collings, P. R. Raithby, S. A. Wells and A. Sartbaeva, *Molecules*, 2019, **24**.
39. A. Nearchou, M. L. U. Cornelius, Z. L. Jones, I. E. Collings, S. A. Wells, P. R. Raithby and A. Sartbaeva, *Royal Society Open Science*, 2019, **6**.
40. M. Konhefr, A. C. Sedgwick, T. D. James, K. Lacina, P. Skladal, B. R. Putra, C. Harito, D. V. Bavykin, F. C. Walsh, P. R. Raithby, G. Kociok-Kohn and F. Marken, *Dalton Trans.*, 2019, **48**, 11200-11207.
41. R. Kia, S. Mahmoudi and P. R. Raithby, *Crystengcomm*, 2019, **21**, 77-93.
42. C. L. Jones, J. M. Skelton, S. C. Parker, P. R. Raithby, A. Walsh, C. C. Wilson and L. H. Thomas, *Crystengcomm*, 2019, **21**, 1626-1634.
43. R. Ilmi, M. S. Khan, W. D. Sun, L. Zhou, W. Y. Wong and P. R. Raithby, *Journal of Materials Chemistry C*, 2019, **7**, 13966-13975.
44. R. Ilmi, M. S. Khan, Z. Z. Li, L. Zhou, W. Y. Wong, F. Marken and P. R. Raithby, *Inorg. Chem.*, 2019, **58**, 8316-8331.
45. L. E. Hatcher, J. M. Skelton, M. R. Warren and P. R. Raithby, *Accounts of Chemical Research*, 2019, **52**, 1079-1088.
46. A. Haque, L. L. Xu, R. A. Al-Balushi, M. K. Al-Suti, R. Ilmi, Z. L. Guo, M. S. Khan, W. Y. Wong and P. R. Raithby, *Chem. Soc. Rev.*, 2019, **48**, 5547-5563.
47. A. Haque, R. A. Al Balushi, I. J. Al-Busaidi, R. Ilmi, N. Al Rasbi, M. Jayapal, M. S. Khan and P. R. Raithby, *J. Organomet. Chem.*, 2019, **892**, 75-82.
48. M. Bagherzadeh, H. Mahmoudi, S. Ataie, M. Bahjati, R. Kia, P. R. Raithby and L. Vaccaro, *Molecular Catalysis*, 2019, **474**.

13. Conference Attendance and Presentations (during last 10 years)

Only Plenary/Keynote/Invited Lectures:

- 2013 Directed Assembly Network, Molecules to Materials, Strathclyde, UK
- 2013 46th Crystallography School, The Future of Dynamic Structural Science, Erice, Italy
- 2013 ACA Meeting, Hawaii, USA
- 2013 RSC, International Conference on Inclusion Compounds (ISIC14), Heriot Watt, UK
- 2014 IUCr World Congress on Crystallography, Warwick, UK
- 2015 European Crystallographic Association Congress, Rovinj, Croatia
- 2017 Royal Spanish Chemical Society, Sitges, Spain
- 2018 Institute of Molecular Science and Engineering, Imperial College, London – Highlight Series

14. Professional Development Activities

Major and original contributions to inorganic, structural chemistry and in the development of

advanced probes of materials structure including: (i) developments in transition metal cluster chemistry; (ii) development of new functional metallo-organic oligomers and polymers; (iii) advances in solid-state photochemistry leading to the identification of new metastable coordination complexes; (iv) time-resolved crystallography; (v) advanced functional materials with applications in sensor technologies and (vi) major self-driven and strong collaborative programmes across a wide spectrum of inorganic and materials chemistry.

15. National and International Recognition

1998 – 2000	Vice Chair of the Chemical Crystallography Group of the British Crystallographic Association
2000 – 2003	Chair of the Chemical Crystallography Group of the BCA
2000 – 2003	Council Member, British Crystallographic Association
2002 – 2006	Chair, XRD Synchrotron User Group, CCLRC Daresbury Laboratory
2008 – 2008	Chair, UK delegation to the International Union of Crystallography General Assembly
1989 – 1992	Committee Member, Chemical Crystallography Group, BCA
1994 – 1996	Committee Member, Chemical Crystallography Group, BCA
2008 – 2011	Chair, ECA SIG-13, Chemical Structure and Molecular Properties