

Curriculum Vitae

Prof. Nicholas M Harrison

Institute of Molecular Science and Engineering
Department of Chemistry
Imperial College London
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Employment History

Date	Institute	Position
2016-now	Imperial College London	Director, Institute of Molecular Science & Engineering
2000-2016	Imperial College London	Professor of Theoretical Chemistry
2006-2012	Rutherford Appleton Lab	Head of STFC's Energy Programme
1994-2006	Daresbury Laboratory	Head, Computational Materials Science
1993-1994	Pacific Northwest Laboratories	Visiting Senior Research Fellow
1989-1993	Daresbury Laboratory and ICI Chemicals & Polymers Ltd.	Research scientist

I have over 35 years' experience of developing and using digital tools for materials discovery and optimisation. I worked in industry, major US and European labs before joining Imperial College in Jan. 2000 where I was a founder member of the Thomas Young Centre in 2006 and co-founded the Institute for Molecular Science and Engineering in 2016.

Other Positions Held and Membership of Professional Bodies

Fellow of the Institute of Physics
Fellow of the Royal Society of Chemistry
Founder Member of the International Workshop on Oxides (IWOX)
Executive board of the Thomas Young Centre
Boards of CCP9, the Materials Chemistry and the UK Car Parrinello Consortia
Chair of the Materials Science Panel for the Finnish Academy of Science

Education

1986 BSc (hons) in Physics (first class), University of Birmingham
1989 PhD, Statistical Mechanics of Disordered Alloys, University of Birmingham

Research Highlights

Pioneered hybrid exchange DFT in condensed matter, development and world-wide distribution of CRYSTAL and related software, stability of polar surfaces, first principles thermodynamics, catalysis, photo-catalysts and voltaics, new models of corrosion, discovery of hardest known oxide, discovery of high T molecular magnets for spintronics. Over 350 papers attracting 25,000+ citations (h-index 75).

