Patrick J. Walsh
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Walsh Group
Catalysis · Mechanism · Synthesis

Professional Experience

2005-present Professor of Chemistry, University of Pennsylvania
2008-2018 Alan MacDiarmid Term Chair
2002-2005 Associate Professor of Chemistry, University of Pennsylvania
1999-2002 Assistant Professor of Chemistry, University of Pennsylvania
1994-1999 Assistant Professor of Chemistry, San Diego State University

Education

1991-1994 The Scripps Research Institute NSF Postdoctoral Fellow Postdoctoral Advisor Prof. K. Barry Sharpless
1991 University of California, Berkeley Ph.D in Chemistry Advisor Prof. Robert G. Bergman
Thesis title "The Synthesis and Reactivity of Zirconium-Nitrogen Double and Single Bonds"
1986 B.A. in Chemistry, University of California, San Diego

Honors, Awards, Achievements

2019 Advisory Committee of Science China Chemistry
2018 Yantze Lectureship, Wuhan Univ. (PRC)
2018 Ling Xi Lectureship, NW Polytechnical Univ. (PRC)
2017 Jiangsu 100 Talents Award for Foreign Experts
2016 – 2017 Chair, Philadelphia Organic Chemists' Club
2016 Elected Fellow of the Royal Society of Chemistry (UK)
2016 School of Arts and Sciences Undergraduate Mentoring Award (UPenn)
2016 Honorary Professor, Nanjing Tech
2016 Adjunct Professor, China Agriculture University
2014–2016 Visiting Professor, China Agriculture University
2014 Author profile (ACIE 2014, 53, 10854)
2011 2011 Novartis Lecturer, UC Irvine
2010 2010 Abbott Lecturer, UC Berkeley
2008 – present Alan MacDiarmid Chair in Chemistry, UPenn
2006 Philadelphia Section Award of the ACS
2000 – 2005: Camille Dreyfus Teacher-Scholar Award
1999 – 2000 SDSU Mortar Board Outstanding Faculty Award

1997 – 2002: National Science Foundation Career Award
1991 – 1993: National Science Foundation Postdoctoral Fellowship
1986 – 1987: Chemistry Fellow, University of California, Berkeley
1985 – 1986: President's Undergraduate Fellowship

Research Interest

Our research spans organic asymmetric syntheses, organo-catalysis, palladium/nickel-catalyzed cross-coupling reactions, hetero-bimetallic lanthanide complexes and other organometallics. We are interested in mechanism study for some novel and unusual reactivity.

- Detailed investigations of the reaction mechanisms of catalytic asymmetric transformations
- Development of catalysts and methods for C–C, C–O, C–S bonds
- Introduction of novel tandem reactions

Teaching Achievements

- Development of Chemistry 246, an advanced synthetic organic/inorganic lab for undergraduate students.
- Research outreach with Mexico (19 published articles with 9 professors from Mexico at six different research institutions).
- Walsh and Kozlowski, Fundamentals of Asymmetric Catalysis, University Science Books, Aug. 2008.