

# Curriculum Vitae: King Kuok (Mimi) Hii

**Date of Birth:** 23<sup>rd</sup> December 1969

## **Education:**

1988-91 University of Leeds, England. B.Sc.(First Class Hons.) in Chemistry.

1991-94 University of Leeds, England. Ph.D. in Chemistry (Supervisor: Professor B. L. Shaw, FRS).

## **Career :**

1994-97 Postdoctoral Research Assistant, Oxford University (Supervisor: Dr. J. M. Brown, FRS).

1995-97 Keeley Junior Research Fellow, Wadham College, Oxford.

1997-98 Ramsay Memorial Research Fellow (University of Leeds).

1998-2003 Lecturer in Organic Chemistry, King's College London.

2003-9 Senior Lecturer in Inorganic Chemistry, Imperial College London.

2009-present Reader in Catalysis, Imperial College London.

## **Academic Honours/Awards:**

1991-94 Tetley and Lupton Scholarship, University of Leeds.

Edward Boyle Memorial Scholarship, University of Leeds.

Overseas Research Studentship (ORS) Award, Committee of Vice-Chancellors and Principals (C.V.C.P.)

1995 M.A.(Oxon)

1995-97 Keeley Junior Research Fellowship, Wadham College, Oxford.

1997-98 Sir William Ramsay Memorial Fellowship, Ramsay Memorial Trust.

## **Teaching track record:**

### Lectures:

**Imperial College London:** First Year Inorganic Chemistry (Coordination Chemistry), 8 lectures (2003-present); Fourth Year Advanced Inorganic Chemistry (Palladium Reagents in Organic Synthesis), 8 lectures (2003-present); Second Year Inorganic NMR spectroscopy, 4 lectures (2005-6).

**King's College London:** Foundation Chemistry for Life Science Students (Organic Chemistry), 5 lectures, 2001-3; Second Year Organic Chemistry (coordinator), 11 lectures, 1998-2003; Fourth Year Advanced Organic Chemistry (coordinator), 9 lectures, 1998-2003; Fourth Year Advanced Spectroscopic Techniques for Chemical Research (NMR module), 5 lectures, 1998-2003; First Year 'Frontiers of Chemistry', 8 lectures, 1999-2000.

### Demonstrating:

**Imperial College London:** First, Second and Third Year Practical Laboratory Classes.

**King's College London:** Foundation of Chemistry for Life Science Students (Organic Chemistry), 2000-2003; First and Second Year Organic Chemistry Laboratories, 1998-2003; Second Year lab-based spectroscopy project "Identification of Unknown" (coordinator), 1998-2003.

### Others:

Regular weekly tutorial groups and interactive problem classes, as well as supervision of literature and laboratory-based projects.

**St. Hilda's College Oxford** (1995-6): Tutorial Fellowship.

## **Administrating duties:**

**King's College London:** 1) Time-tabling for Undergraduate lectures and laboratory courses; 2) King's College London Alumni Association (KCLAA) Chemistry Representative. Responsible for the production of an annual newsletter and reunion events; 3) Member of the NMR committee, for the purchase of new departmental NMR machines in 2000; 4) Member of the Departmental Research Committee.

**Imperial College London:** Coordinator of Third Year Inorganic Chemistry Laboratory; Course Coordinator of Second Year Inorganic Chemistry (2003-8); Course Coordinator of Second Year Inorganic Chemistry (2009-); Coordinator of Fourth Year Modern Applications of Inorganic Chemistry in Industry, 8 Lectures (liaising with industrial chemists, collating and marking of examination papers); Space Working Party (Sectional Representative).

**External examinations:**

**UK:** Cardiff University (December 2010), University College London (November 2010), Oxford University (August 2006, D.Phil.), University of Leeds (June 2006, PhD; November 2002, PhD).

**Overseas:** National University of Singapore (September 2009, PhD), University of Hong Kong (February 2010, PhD; October 2009, PhD; September 2008, PhD), Indian Institute of Technology, Kanpur, India (September 2007, PhD), Universidad de Santiago de Compostela, Spain (April 2006, PhD; July 2004, PhD), Universidad la Coruña, Spain (July 2004, PhD), University College Dublin, Ireland (March 2003, PhD; June 2008, PhD).

**Research grant income (>£10,000):**

Source	Amount	Project title	Duration
EPSRC <i>GR/M78229/01</i>	£54,369	Hemilabile P-N-P ligands for catalysis (PI)	12/99-11/02
Aventis Pharma (studentship top-up)	£16,500	New catalysts for asymmetric hydrogenation	10/99-09/02
Synetix-Johnson Matthey	£65,408	Libraries of asymmetric mixed donor ligands for catalysis	10/00-09/03
EPSRC industrial CASE award (GSK) <i>00314292</i>	£55,000	Synthesis of medium-sized heterocyclic rings	10/00-09/03
The Royal Society Research Grant <i>574006.G503/22059/SM</i>	£10,000	Automating catalytic reactions	21/02/01
EPSRC ROPA award <i>GR/R50332/01</i>	£86,165	Developing novel catalytic systems – addition of amines to double bonds (PI)	02/02-07/03
DSM Pharma (studentship top up) <i>ACER 0309-0083</i>	£27,000	Catalytic asymmetric hydroamination reactions	10/03-09/06
EPSRC industrial DTG award (AstraZeneca) <i>GR/P01816/01</i>	£59,275	Palladium-catalysed synthesis of unusual heterocyclic rings	10/03-09/06
GlaxoSmithKline (studentship top-up) <i>S2914</i>	£29,000	Asymmetric hydroamination catalysts	10/04-09/07
Pfizer (studentship top-up)	£30,000	Cationic metal triflates in asymmetric catalysis	10/05-09/09
EPSRC industrial DTG award (AstraZeneca) <i>GR/T18783/01</i>	£60,864	Asymmetric synthesis of nitrogen heterocycles	10/07-09/10
Pharmacat Consortium	£60,000	Scale-up of Electrochemical Reactors for the Reduction of Amides in Pharmaceutical Processes	05/08-04/12
Pharmacat Consortium	£60,000	Examination of Pd catalysis in the heterogeneous/homogeneous phases	05/08-04/12
EPSRC <i>EP/G027544/1</i>	£441,047	Enabling Oxidation Reactions on a Large Scale: Combining Electrochemistry with Flow (PI)	03/09-09/11
EPSRC <i>EP/G070172/1</i>	£602,807	ELSEP (Elucidate and Separate) - Palladium Catalysts in C-C and C-N Coupling Reactions (Co-I)	09/09-08/12
EU Commission <i>FP7-PEOPLE-2009-IEF - 252247</i>	180,603€	Chircat: Novel Organocatalysts for Asymmetric Addition of Me <sub>3</sub> SiCF <sub>3</sub> to Carbonyl Compounds	09/10-08/12
Pharmacat Consortium	£30,000	Catalytic Flow Chemistry: Synthesis of amides from primary alcohols and amines	10/10-09/13
EPSRC industrial DTG award (Johnson Matthey)	£92,161	New applications of gold catalysis in oxidative transformation of alcohols	10/11-09/14

## **Research project supervision/mentorship:**

### **Postdoc:**

- 2011- Dr. John Brazier, EPSRC Postdoctoral Fellowship (EP/G070172/1)
- 2010- Dr. Andrey Sheshenev, Marie-Curie IEF Fellowship.
- 2010-2011 Dr. Elena Barreiro, Postdoctoral Fellowship, Spanish Ministry of Education.
- 2009-2011 Dr. Silvia Diez-Gonzalez, Imperial College Junior Research Fellow.
- 2009-2010 Dr. Bao Nguyen, EPSRC Postdoctoral Fellowship (EP/G070172/1)
- 2010-2011 Dr. Candice Palmer, EPSRC Postdoctoral Fellowship (EP/G027544/1)
- 2009-2010 Dr. Tomas Bystron, EPSRC Postdoctoral Fellowship (EP/G027544/1)
- 2009-2011 Dr. Natalia Zotova, EPSRC Postdoctoral Fellowship (EP/G027544/1)
- 2007-2011 Dr. Luis A. Adrio, Postdoctoral Fellowship, Xunta de Galicia.
- 2005-6 Dr. Mingjun Zhou, China Scholarship Council.
- 2001-3 Dr. Kelin Li, EPSRC Postdoctoral Fellowship (GR/R50332/01, ROPA award).

### **PhD:**

- 2011- Luka Tallon, EPSRC DTG award/Johnson Matthey, "*New applications of gold catalysis in oxidative transformation of alcohols*".
- 2010- Felicity Roberts, EPSRC DTA award/Pharmacat, "*Catalytic flow chemistry: Conversion of alcohols to amides*".
- 2009- Steven Lal, EPSRC DTA award (joint supervision with Dr. Silvia Diez-Gonzalez).
- 2009- Kathryn Rix, EPSRC DTA award/Pharmacat, "*Electrochemical reduction of amides to amines.*"
- 2007-2011 Jannine L. Arbour, EPSRC DTA award, "*C-X bond formation by transition metal catalysis*".
- 2007-2011 Laura L. Taylor, EPSRC DTG award/AstraZeneca, "*Asymmetric synthesis of nitrogen heterocycles*".
- 2006-2010 Xinzhu Liu, Imperial College Deputy Rector's Award, "*Development of late transition metal catalyzed direct C-H activation reactions*".
- 2006-2010 Alexander M. R. Smith, EPSRC DTA award/Pfizer, "*Exploring new asymmetric reactions catalysed by dicationic Pd(II) complexes*".
- 2004-2008 Jason G. Taylor, EPSRC DTA award/GlaxoSmithKline, "*Development of asymmetric hydroamination catalysts*".
- 2003-2006 Pim Huat Phua, ORS award/DSM Research BV, "*Development of asymmetric hydroamination catalysts for the synthesis of  $\beta$ -amino acid derivatives*".
- 2003-2007 Emma L. Cropper, AstraZeneca (EPSRC industrial CASE award), "*Synthesis of unusual-sized nitrogen heterocycles*".
- 2001-2005 Meritxell Guinó, King's College London PG Studentship, "*Functionalised polymers as scavengers and supports in organic synthesis*".
- 2000-2005 Marco Olliana, Syntex-Johnson Matthey CASE award, "*Libraries of asymmetric mixed donor ligands for catalysis*".
- 2000-2004 Maryiam Qadir, GlaxoSmithKline (EPSRC industrial CASE award), "*Transition metal catalysed synthesis of medium-sized heterocycles*".
- 2000-2004 Francois A. Loiseau, King's College London PG Studentship, "*Synthesis of pegylated calixarenes towards new tuberculosis therapies*".
- 1999-2003 Xiaohui Cheng, K. C. Wong Education Foundation/Ministry of Education China/ British Council, "*Transition metal catalysed hydrogenation, allylic alkylation and transfer hydrogenation reactions*".
- 1999-2003 Sebastien L. Parisel, EPSRC First Appointee Grant (GR/M78229/01), "*Synthesis and catalytic chemistry of a new generation of aminophosphine ligands*".
- 1999-2003 Hubert T. C. Lam, King's College London PG Studentship/Aventis Pharma, "*Synthesis of chiral hybrid ligands and applications in palladium-catalysed asymmetric allylic alkylation reactions*".
- 1998-2002 Mohammed S. Rahman, King's College London PG Studentship, "*Chemistry of mixed donor Phosphorus-Nitrogen ligands: Towards asymmetric catalysis*".

### **MSci or MSc(Research):**

- 2011-2 Hiu (Hilary) Kwong (MSci, Imperial), “*Asymmetric Synthesis of chiral N-heteroaryl-substituted  $\beta$ -amino acids*”
- 2010-11 Chi-Hin Tse (MSci, Imperial), “*PTA as water-soluble nucleophilic catalyst for Rauhut-Currier reactions*”
- 2010-11 Jessica Shaw (MSci, Imperial), “*Asymmetric Synthesis of Levonantradol: a synthetic cannabinoid analog*”
- 2009-10 Peter Lusted (MSci, Imperial), “*Asymmetric synthesis of Levonantradol: a synthetic cannabinoid analog*”
- 2007-8 Yae-Eun Han (MSci, Imperial), “*Synthesis of  $\beta$ -lactam derivatives*”
- 2007-8 Karl Bonney (MSci, Imperial), “*Synthesis of the core structure of the antitumour antibiotic agent mitomycin*”
- 2005-6 Aui-Ping Yuen (MSci, Imperial), “*Intramolecular palladium-catalysed amidation for the formation of 7- and 8-membered benzo-fused lactam rings*”
- 2005-6 Shuyi Quek (MSci, Imperial), “*Construction of oxygen-containing heterocycles by copper catalysis*”
- 2004-5 Apal Patel (MSci, Imperial), “*Transition-metal mediated synthesis of benzomorphan derivatives*”.
- 2003-4 Sophie Gore (MSci, Imperial), “*Development of novel fluorescent antagonists for investigating Y1 receptor subcellular localisation and dimerisation*”.
- 2003-4 Farrah L. Bhatti (MSci, Imperial), “*Asymmetric Synthesis of Crinatusin A1 and A2*”.
- 2002-3 Jamie Hunt (MSci, King’s), “*Asymmetric Synthesis of Crinatusin A1*”.
- 2001-2 Rachael E. Priestley (MSci, King’s), “*The synthesis of 2-substituted-1H-1-benzazepines (and an unexpected compound) via palladium catalysis*”.
- 2000-1 Thomas W. D. F. Rising (MSci, King’s), “*A study on the synthesis of biologically active 1-benzazepines via palladium catalysis*”.
- 2000-1 Neil D. Moorcroft (MSc, King’s), “*Second generation of PNP hemilabile ligands with modification at phosphorus*”.
- 1999-2000 Maryyam Qadir (MSci, King’s), “*Examination of Ligand effects in the Heck arylation reaction*”.

### **Professional qualifications and Membership of Professional bodies:**

ALCM (Associate of the London College of Music)

BSc (Hons, Leeds), PhD (Leeds), MA (Oxon), MRSC, CChem (Royal Society of Chemistry)

Committee Member, Applied Catalysis Group (Royal Society of Chemistry, 2004-)

Advisor to the Editorial Board for the *Journal of Fundamental Science Studies* (2006-8)

Advisor to the Editorial Board for *Letters in Organic Chemistry* (2007-)

### **Other Professional Activities:**

1. Consultancy: Imperial Consultants (ICCON) for PPG Fine Chemicals: “Research work on enantioselective *aza*-Michael reactions”, 2005; Eli Lilly (Indianapolis, USA): “Novel flow chemistry applications and practical catalysis for organic synthesis”, April 2010; AstraZeneca (UK): Analysis of Pd residues in post-reaction mixtures, April 2011.

2. Visiting Lectureship, Universiti Teknologi Malaysia, Johor, Malaysia, August 1-22, 2007.

Courses given: Advanced Organometallic Chemistry - Characterisation of Organometallic compounds by IR and NMR Spectroscopies (4 lectures), Applications of 2D NMR Spectroscopy (1 day workshop).

3. Scientific Committee, Joint ACG-SCI meeting: “*Challenges in Catalysis for Pharmaceuticals and Fine Chemicals*”, London, November 8, 2007.

4. Visiting Associate Professorship, National University of Singapore, Singapore, July 28-October 5, 2008.

Course given: “*Advanced Spectroscopy and Organic Synthesis*” (CM3221, Third Year Undergraduate, 10 lectures).

5. Scientific Committee, “*Catalysis for a Sustainable Future*”, Industry and Innovation sub-group meeting, IUPAC conference, Glasgow, Scotland, August 3-7 2009.

6. Scientific Committee, Joint ACG-SCI meeting: “*Challenges in Catalysis for Pharmaceuticals and Fine Chemicals II*”, London, October 20, 2009.
7. Scientific Committee, Joint ACG-SCI meeting: “*Challenges in Catalysis for Pharmaceuticals and Fine Chemicals III*”, London, November 2, 2011.
8. Organising Committee, EuCOMC XX: EuCheMS Conference on Organometallic Chemistry XX, June 30-July 4 2013, St. Andrews, Scotland.
9. Steering Committee, EPSRC Grand Challenge “Dial-a-Molecule”, 2010-2011.
10. Expert Reviewer for Chemistry Innovation CASE awards, 2011.
11. Expert Reviewer for “*Jeunes Chercheuses et Jeunes Chercheurs*” (JCJC) program, French National Research Agency (SIMI 7 2012), 2012.

## **Publications (\*main author):**

### **(i) Patents:**

1. K. K. Hii, “*Catalytic method of hydroaminating alkyl N-alkenylcarbamates with primary aromatic amines*”, U.S. Pat. Appl. Publ. (2006), US2006183933.
2. K. K. Hii, “*In situ generated asymmetric palladium phosphine catalyst and uses thereof*”, PCT Int. Appl. (2006), WO2006103453.
3. K. K. Hii, “*Copper(II) catalyzed addition of acids, alcohols, amines, and thiols to alkenes*”, PCT Int. Appl. (2007), WO2007007084.
4. K. K. Hii, N. Dalton, and C. Turner, “*Preparation of iothalamate analogs as isotopically labeled marker for determination of kidney function.*” PCT Int. Appl. (2007), WO2007026140.
5. K. K. Hii, “*Enantioselective hydroamination reaction to form an intermediate in the synthesis of torcetrapib*”, GB application (2006), GB0622908.2.
6. J-C. Caille and K. K. Hii, “*Synthesis of imide compounds by enantioselective hydroamination*”, PCT Int. Appl. (2008), WO2008059051.

### **(ii) Books, Chapters and Monographs:**

7. “Sustainable Catalysis: Challenges and Practices in Pharmaceutical and Fine Chemical Industry”, Ed. Peter J. Dunn, K. K. Hii, M. J. Krische and M. T. Williams, Wiley & Sons, NY, in preparation.
6. B. N. Nguyen, K. K. Hii, W. Szymański, and D. B. Janssen, “Conjugate Addition Reactions (Michael; C-, O-, S- and N-Nucleophiles)”, *Science of Synthesis: Stereoselective Synthesis*, Volume 1: *Stereoselective Reactions of Carbon-Carbon Double Bonds*, Chapter 1.12, Ed. J. G. de Vries, Georg Thieme Verlag, **2010**.
5. “Application of Phosphine Ligands in Organic Synthesis”, L. A. Adrio and K. K. Hii, *Specialist Periodical Reports: Organometallic Chemistry*, Royal Society of Chemistry, Ed. I. Fairlamb, **2009**, 35, 62–92.
4. “Hydridopalladium Complexes”, K. K. Hii in “Handbook of Organopalladium Chemistry for Organic Synthesis”, Ed. E-i. Negishi, Wiley & Sons, NY, **2002**, pp.81-90, ISBN: 0-471-31506-0.
3. “Nitrogen, Phosphorus, Arsenic, Antimony and Bismuth”, K. K. Hii and T. P. Kee, *J. Chem. Soc. Annual reports (A)*, **1999**, 95, 57.
2. “Group 15: N, P, As, Sb, Bi”, K. K. Hii and T. P. Kee, *J. Chem. Soc. Annual reports (A)*, **1996**, 92, 71.
1. “Group 15: N, P, As, Sb, Bi”, K. K. Hii and T. P. Kee, *J. Chem. Soc. Annual reports (A)*, **1994**, 91, 67.

### **(iii) Review articles (reversed chronological order):**

8. “4, 12-Bis(diphenylphosphino)-[2.2]-paracyclophane”, *e-Encyclopedia of Reagents for Organic Synthesis (e-EROS)*, L. A. Adrio and K. K. Hii, **2012**.
7. “Palladium-Catalysed Heterofunctionalisation of C=C and C-H Bonds”, L. A. Adrio and K. K. Hii, *Current Organic Chemistry (New Trends in Palladium Chemistry: Synthesis, Structure, Reactivity and Applications)*, **2011**, 17, 3337-3361.
6. “Transition Metal Catalyzed Enantioselective  $\alpha$ -Heterofunctionalization of Carbonyl Compounds”, A. M. R. Smith and K. K. Hii, *Chem. Rev. (Frontiers of Transition Metal Catalyzed Reactions)*, **2011**, 111, 1637-1656.
5. “Hydroamination Reactions by Metal Triflates: Brønsted Acid vs. Metal Catalysis?”, L. A. Adrio, J. G. Taylor and K. K. Hii, *Dalton Trans. (Frontier article)*, **2010**, 1171-1175.
4. “Synthesis of Terphenyls”, L. A. Adrio, J. M. A. Miguez and K. K. Hii, *Org. Prep. Proced. Int.*, **2009**, 41, 331-358.

3. "Applications of Phosphine-Functionalised Polymers in Organic Synthesis", M. Guinó and K. K. Hii, *Chem. Soc. Rev.*, **2007**, 608-617.
2. "Development of Palladium Catalysts for Asymmetric Hydroamination Reactions", K. K. Hii, *Pure Appl. Chem.*, **2006**, 78, 341-349.
1. "Advances in the Heck Chemistry of Aryl Bromides and Chlorides", N. Whitcombe, K. K. Hii and S. E. Gibson, *Tetrahedron*, **2001**, 57, 7449-7476.

**(iv) Research Articles (reversed chronological order):**

67. "Asymmetric synthesis of 2-alkyl-substituted tetrahydroquinolines by an enantioselective aza-Michael reaction", L. L. Taylor, F. W. Goldberg and K. K. Hii\*, manuscript submitted.
66. "Silver-catalysed enantioselective additions of O-H and N-H to C=C bonds: a new model for stereoselectivity based on non-covalent interactions", J. L. Arbour, H. S. Rzepa\*, J. Contreras-García\*, L. A. Adrio, E. M. Barreiro, and K. K. Hii\*, manuscript submitted.
65. "Catalysis in Flow: Au-Catalysed Alkylation of Amines by Alcohols", N. Zotova, F. J. Roberts, G. H. Kelsall, A. S. Jessiman, K. Hellgardt\*, and K. K. Hii\*, *Green Chem.*, **2012**, 14, 226.
64. "Speciation of Pd(OAc)<sub>2</sub> in Ligandless Suzuki-Miyaura Reactions", L. A. Adrio, B. N. Nguyen, G. Guilera, A. G. Livingston and K. K. Hii\*, *Cat. Sci. Tech.*, **2012**, 2, 316-323.
63. "An Alternative to Benzoquinone for Room-Temperature Fujiwara-Moritani Reactions", X. Liu and K. K. Hii\*, *J. Org. Chem.*, **2011**, 76, 8022-8026.
62. "An Expedient Synthesis of Olfactory Lactones by Intramolecular Hydroacylalkoxylation Reactions", L. A. Adrio and K. K. Hii\*, *Eur. J. Org. Chem.*, **2011**, 1852-1857.
61. "Catalysis in Flow: Practical and Selective Aerobic Oxidation of Alcohols", N. Zotova, K. Hellgardt, G. H. Kelsall, A. S. Jessiman and K. K. Hii\*, *Green Chem.*, **2010**, 12, 2157-2163.
60. "Oxidative Amidation of Activated Alkenes Using Pd(OAc)<sub>2</sub> as a Catalyst Precursor", X. Liu and K. K. Hii\*, *Eur. J. Org. Chem.*, **2010**, 5181-5189.
59. "Delineating Origins of Stereocontrol in Pd-Catalyzed Asymmetric  $\alpha$ -Hydroxylation of  $\beta$ -Ketoesters", A. M. R. Smith, H. S. Rzepa, A. J. P. White, D. Billen and K. K. Hii\*, *J. Org. Chem.*, **2010**, 75, 3085-3096.
58. "Copper-Catalysed Intramolecular O-H Addition to Unactivated Alkenes", L. A. Adrio, L. S. Quek, J. G. Taylor and K. K. Hii\*, *Tetrahedron*, **2009**, 65, 10334-10338.
57. "Unusual Regiodivergence in Metal-Catalysed Intramolecular Cyclisation of  $\gamma$ -Allenols", J. L. Arbour, H. S. Rzepa\*, A. J. P. White and K. K. Hii\*, *Chem. Commun.*, **2009**, 7125-7127.
56. "Palladium-Catalysed Enantioselective  $\alpha$ -Hydroxylation of  $\beta$ -Ketoesters", A. M. R. Smith, D. Billen and K. K. Hii\*, *Chem. Commun.*, **2009**, 3925-3927.
55. "[Pd{2-CH<sub>2</sub>-5-MeC<sub>6</sub>H<sub>3</sub>C(H)=NN=C(S)NH<sub>2</sub>Et} ]<sub>3</sub>: An Unprecedented Trinuclear Cyclometallated Palladium(II) Cluster Through Induced Flexibility in the Metallated Ring", L. Adrio, J. M. Antelo, J. J. Fernández, K. K. Hii, M. T. Pereira, J. M. Vila\*, *J. Organometallic Chem.*, **2009**, 695, 747-751.
54. "Delineating Ligand Effects in Intramolecular Aryl Amidation Reactions: Formation of a Novel Spiro-Heterocycle by a Tandem Cyclisation Process", E. L. Cropper, A. P. Yuen, A. J. P. White, A. Ford and K. K. Hii\*, *Tetrahedron*, **2009**, 65, 525-530.
53. "A Recyclable Copper(II) Catalyst for the Annulation of Phenols with 1,3-Dienes", L. A. Adrio and K. K. Hii\*, *Chem. Commun.*, **2008**, 2325-2327.
52. "A Practical and General Synthesis of Unsymmetrical Terphenyls by Tandem Suzuki-Miyaura Coupling Reactions", J. M. A. Miguez, L. A. Adrio, A. Sousa-Pedrares, J. M. Vila, and K. K. Hii\*, *J. Org. Chem.*, **2007**, 72, 7771-7774.
51. "Preparation of Macrocyclon Analogues: Calix[8]arenes with Extended Polyethylene Glycol Chains", F. A. Loiseau, A. M. Hill and K. K. Hii\*, *Tetrahedron*, **2007**, 63, 9947-9959.
50. "A Concise Asymmetric Synthesis of Torcetrapib", M. Guinó, P. H. Phua, J-C. Caille and K. K. Hii\*, *J. Org. Chem.*, **2007**, 72, 6290-6293.
49. "Elucidating the Mechanism of the Asymmetric aza-Michael Reaction", P. H. Phua, S. P. Mathew, A. J. P. White, J. G. de Vries, D. G. Blackmond and K. K. Hii\*, *Chem. Eur. J.*, **2007**, 13, 4602-4613.

48. "In situ Investigation of the Oxidative Addition in Homogeneous Pd Catalysts by Synchronised Time Resolved UV-Vis/XAFS", G. Guilera,\* M. A. Newton, C. Polli, M. Guinó and K. K. Hii\*, *Chem. Commun.*, **2006**, 4306-4309.
47. "Copper Catalyzed Intermolecular Hydroamination of Alkenes", J. G. Taylor, N. Whittall and K. K. Hii\*, *Org. Lett.*, **2006**, 8, 3561-3564.
46. "Enabling Ligand Screening for Pd-catalysed Enantioselective *aza*-Michael Addition Reactions", P. H. Phua, J. G. de Vries and K. K. Hii\*, *Adv. Synth. Catal.*, **2006**, 348, 587-592.
45. "Practical Synthesis of Chiral Vinylphosphine Oxides by Direct Nucleophilic Substitution. Stereodivergent Synthesis of Aminophosphine Ligands", M. Oliana, F. King, P. N. Horton, M. B. Hursthouse and K. K. Hii\*, *J. Org. Chem.*, **2006**, 71, 2472-2479.
44. "Ligand Effects in the Synthesis of *N*-Heterocycles by Intramolecular Heck Reactions", E. L. Cropper, A. J. P. White, A. Ford and K. K. Hii\*, *J. Org. Chem.*, **2006**, 71, 1732-1735.
43. "Mechanisms that Interchange Axial and Equatorial Atoms in Fluxional Processes: Illustration of the Berry Pseudorotation, the Turnstile and the Lever Mechanisms via Animation of Transition State Normal Vibrational Modes", M. Cass, K. K. Hii and H. S. Rzepa, *J. Chem. Ed.*, **2006**, 83, 336 (*Web-based learning aid*).
42. "Palladium-Catalysed Enantioselective Conjugate Addition of Aromatic Amines to  $\alpha,\beta$ -Unsaturated *N*-Imides. Effect of the Chelating Moiety", P. H. Phua, J. G. de Vries and K. K. Hii\*, *Adv. Synth. Catal.*, **2005**, 347, 1775-1780.
41. "Synthesis of *P*-Chirogenic Diarylphosphinoacetic Acids and Their Proline Derivatives for Palladium-catalysed Allylic Alkylation Reactions", H. Lam, S. J. Coles, M. B. Hursthouse, D. J. Aldous and K. K. Hii\*, *Tetrahedron Lett.*, **2005**, 46, 8145-8148.
40. "Copper(II)-Catalysed Addition of O-H Bonds to Norbornene", J. G. Taylor, N. Whittall and K. K. Hii\*, *Chem. Commun.*, **2005**, 5103-5105.
39. "Recyclable Polymer-Supported Pd Catalysts for Aryl Amination Reactions", M. Guinó and K. K. Hii\*, *Tetrahedron Lett.*, **2005**, 46, 7363-7366.
38. "Reversal of Aryl Bromide Reactivity in Palladium-catalysed Aryl Amination Reactions Catalysed by an Aminophosphine Ligand", S. L. Parisel, L. A. Adrio, A. A. Pereira, M. M. Pérez, J. M. Vila and K. K. Hii\*, *Tetrahedron (Symposium-in-Print: The development and application of highly active and selective palladium catalysts, Editor: I. J. S. Fairlamb)*, **2005**, 61, 9822-9826.
37. "Phosphine-functionalised Polymer Resins as Pd Scavengers", M. Guinó and K. K. Hii\*, *Tetrahedron Lett.*, **2005**, 46, 6911-6913.
36. "Wang-aldehyde resin as a recyclable support for the synthesis of  $\alpha, \alpha$ -disubstituted amino acid derivatives", M. Guinó and K. K. Hii\*, *Org. Biomol. Chem.*, **2005**, 3, 3188-3193.
35. "Enantioselective Addition of Amines to Alkenoyl-*N*-oxazolidinones", P. H. Phua, K. Li and K. K. Hii\*, *Tetrahedron (Symposium-in-Print: Catalysis in academia and industry, Editor: M. J. Krische)*, **2005**, 61, 6237-6242.
34. "Polymer-supported Manganese Porphyrin Catalysts - Peptide-linker Promoted Stability", E. Brulé, K. K. Hii and Y. R. de Miguel\*, *Org. Biomol. Chem.*, **2005**, 3, 1971-1976.
33. "Conformation Analyses, Dynamic Behavior and Amide Bond Distortions of Medium-sized Heterocycles. 2. Partially and Fully Reduced 1-Benzazocines, Benzazonines and Benzoazecines", M. Qadir, J. Cobb, A. J. P. White, P. W. Sheldrake, N. Whittall, K. K. Hii\*, P. N. Horton and M. B. Hursthouse, *J. Org. Chem.*, **2005**, 70, 1552-1557.
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27. "Asymmetric Synthesis of  $\beta$ -Amino Acid and Amide Derivatives via Catalytic Conjugate Addition of Aromatic Amines to *N*-Alkenoyl Carbamates", K. Li, X. Cheng and K. K. Hii\*, *Eur. J. Org. Chem.*, **2004**, 959-964 (*Most frequently downloaded Short Communications 2004*).
26. "Phosphorus-Nitrogen-Phosphorus Ligands: Cooperative Effects Between Nitrogen and Phosphorus Substituents on Catalytic Activity", S. L. Parisel, N. D. Moorcroft, A. Jutand, D. J. Aldous and K. K. Hii\*, *Org. Biomol. Chem.*, **2004**, *2*, 301-306.
25. "Multigram Synthesis of Well-defined Extended Bifunctional Polyethylene Glycol Chains", F. A. Loiseau, A. M. Hill and K. K. Hii\*, *J. Org. Chem.*, **2004**, *69*, 639-647.
24. "Unsymmetrical Terdentate Phosphorus-Nitrogen-Nitrogen (PNN) Ligands: Effect of the M/L Ratio and the Pendant Group on Stereoselectivity", X. Cheng and K. K. Hii\*, *Tetrahedron Asymmetry*, **2003**, *14*, 2045-2052.
23. "Mild Reduction of Chlorophosphine Boranes to Secondary Phosphine Boranes", H. Lam, D. J. Aldous and K. K. Hii\*, *Tetrahedron Lett*, **2003**, *44*, 5213-5216.
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21. "Synthesis of 2-Substituted 1-Benzyl-2,3,4,5-Tetrahydro-1-Benzazepines by Palladium Catalysis. Observation of a Competitive  $\beta$ -Hydride Elimination Pathway", M. Qadir, R. E. Priestley, T. W. D. F. Rising, T. Gelbrich, S. J. Coles, M. B. Hursthouse, P. W. Sheldrake, N. Whittall and K. K. Hii\*, *Tetrahedron Lett.*, **2003**, *44*, 3675-3678.
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18. "Examining the Effect of Hemilabile Donor Groups in Non-C<sub>2</sub> Symmetrical Terdentate Ligands", H. Lam, X. Cheng, J. W. Steed, D. J. Aldous and K. K. Hii\*, *Tetrahedron Lett.*, **2002**, *43*, 5875-5877.
17. "Profound Steric Control of Reactivity in Aryl Halide Addition to *Bis*-Phosphine Palladium[0] Complexes", E. Galardon, S. Ramdeehul, J. M. Brown\*, A. Cowley, K. K. Hii, A. Jutand, *Angew. Chem. Int. Ed.*, **2002**, *41*, 1760-1763.
16. "The Intermolecular Asymmetric Heck Reaction: Mechanistic and Computational Studies", K. K. Hii, T. D. W. Claridge, J. M. Brown, A. Smith and R. J. Deeth\*, *Helv. Chim. Acta*, **2001**, *84*, 3043-3046.
15. "Palladium-Catalysed Addition of R<sub>2</sub>NH to Double Bonds. Synthesis of  $\alpha$ -Amino Tetrahydro-Furan and Pyran Rings", X. H. Cheng and K. K. Hii\*, *Tetrahedron*, **2001**, *57*, 5445-5450.
14. "The Chatt-Dewar-Duncanson Model Revisited; X-ray, DFT and NMR Studies of Rhodium-Alkene Binding. Deviations from Structural Ideality", D. W. Price, M. B. Drew, K. K. Hii and J. M. Brown\*, *Chem. Eur. J.*, **2000**, *6*, 4587-4596.
13. "Examination of Ligand Effects in the Heck Arylation Reaction", M. Qadir, T. Möchel and K. K. Hii\*, *Tetrahedron*, **2000**, *56*, 7975-7979.
12. "Scope and Limitations of the Preparation of Aminophosphines R-NH(CH<sub>2</sub>CH<sub>2</sub>PPh<sub>2</sub>) and aminodiphosphines R-N(CH<sub>2</sub>CH<sub>2</sub>PPh<sub>2</sub>)<sub>2</sub> via Michael addition of amines to vinylphosphines", M. S. Rahman, J. W. Steed and K. K. Hii\*, *Synthesis*, **2000**, 1320-1326.
11. "Factors Affecting Oxidative Addition of Aryl Electrophiles to 1,1'-*Bis*(diphenylphosphino)ferrocenepalladium( $\eta^2$ -methyl acrylate), an Isolable Pd[0] alkene Complex", A. Jutand\*, K. K. Hii, M. Thornton-Pett and J. M. Brown, *Organometallics*, **1999**, *18*, 5367-5374.
10. "Synthesis and Properties of Palladium Complexes Containing Phosphorus-Nitrogen-Phosphorus Ligands with a Tunable

- Hemilabile Site”, K. K. Hii\*, M. Thornton-Pett, A. Jutand and R. P. Tooze, *Organometallics*, **1999**, *18*, 1887-1896.
9. “The Heck Olefination Reaction; A DFT Study of the Elimination Pathway”, R. J. Deeth\*, A. Smith, K. K. Hii and J. M. Brown, *Tetrahedron Lett.*, **1998**, *39*, 3229-3232.
  8. “Rational Models for the Carbonyl-ene Cyclisation. Opened and Closed Transition-States”, D. C. Braddock, K. K. Hii and J. M. Brown\*, *Angew. Chem. Int. Ed.*, **1998**, *37*, 1720-1723.
  7. “Intermediates in the Intermolecular Asymmetric Heck Arylation of Dihydrofurans”, K. K. Hii, T. W. D. Claridge and J. M. Brown\*, *Angew. Chem. Int. Ed.*, **1997**, *36*, 984-987.
  6. “Conformational Diastereoisomerisation in *tris*-(2-alkylimino)triphenylphosphines”, M. R. Whitnall, K. K. Hii, M. Thornton-Pett and T. P. Kee\*, *J. Organometallic Chem. (Special volume dedicated to organophosphorus chemistry)*, **1997**, *529*, 35-50.
  5. “Characterisation of Reactive Intermediates in Palladium-Catalysed Arylation of Methyl Acrylate (Heck Reaction)”, K. K. Hii and J. M. Brown\*, *Angew. Chem. Int. Ed.*, **1996**, *35*, 657-659.
  4. “Terdentate (P-N-N) Complexes of a New Pyridyl-Azine-Phosphine *Z, E*-PPh<sub>2</sub>CH<sub>2</sub>C(<sup>t</sup>Bu)=N-N=C(Me)C<sub>5</sub>H<sub>4</sub>N and its Deprotonated Derivative (Azo-phosphine) with Transition Metals”, K. K. Hii, S. D. Perera, and B. L. Shaw\*, *J. Chem. Soc., Dalton Trans.*, **1995**, 625-631.
  3. “Terdentate (P-N-O) Complexes formed from *Z, E*-PPh<sub>2</sub>CH<sub>2</sub>C(<sup>t</sup>Bu)=N-N=CH(C<sub>6</sub>H<sub>4</sub>OH-2) or PPh<sub>2</sub>CH<sub>2</sub>C(<sup>t</sup>Bu)=N-N=CH{C<sub>6</sub>H<sub>2</sub>(OH-2)(OMe)<sub>2-4,6</sub>} and Nickel, Palladium, Platinum, Rhodium or Iridium”, K. K. Hii, S. D. Perera, and B. L. Shaw\*, *J. Chem. Soc., Dalton Trans.*, **1994**, 3589-3596.
  2. “Complexes of the Bidentate Ligands PPh<sub>2</sub>CH<sub>2</sub>C(<sup>t</sup>Bu)=N-NR<sub>2</sub> (R = H, Me) and PPh<sub>2</sub>CH<sub>2</sub>C(<sup>t</sup>Bu)=N-N=CHPh with Palladium and Platinum. X-ray Structure of *cis*-[Pt{PPh<sub>2</sub>CH<sub>2</sub>C(<sup>t</sup>Bu)=N-NH}<sub>2</sub>]<sub>2</sub>”, K. K. Hii, S. D. Perera, B. L. Shaw\* and M. Thornton-Pett, *J. Chem. Soc., Dalton Trans.*, **1994**, 103-110.
  1. “New Bidentate Ligands PPh<sub>2</sub>CH<sub>2</sub>C(<sup>t</sup>Bu)=N-NR<sub>2</sub> (R = H, Me) and PPh<sub>2</sub>CH<sub>2</sub>C(<sup>t</sup>Bu)=N-N=CHPh and their Complexes with Group 6 Metal Carbonyls”, K. K. Hii, S. D. Perera, B. L. Shaw\* and M. Thornton-Pett, *J. Chem. Soc., Dalton Trans.*, **1992**, 2361-2366.

#### Oral Presentations at Conferences (submitted papers):

1. “Development of Catalysts for Asymmetric Hydroamination Reactions”, 14<sup>th</sup> International Symposium on Homogeneous Catalysis (ISHC-14), Munich, Germany (July 5-9, **2004**)
2. “Development of Catalysts for Hydroamination Reactions”, 13<sup>th</sup> IUPAC Symposium on Organometallic Chemistry directed towards Organic Synthesis (OMCOS13), Geneva, Switzerland (July 17-21, **2005**)
3. “Asymmetric Heterofunctionalization of Carbon-Carbon Double Bonds”, 242<sup>nd</sup> American Chemical Society National Meeting and Exposition, 10-14 September **2006**, San Francisco, USA.
4. “Addition of N-H and O-H to Carbon-Carbon Double Bonds”, 12<sup>th</sup> Asian Chemical Congress, August 23-25, **2007**, Kuala Lumpur, Malaysia.
5. “Catalysis in Flow: Practical and Selective Transformations of Alcohols”, AIChE 2010 Annual Meeting, 7-11 November **2010**, Salt Lake City, Utah.
6. “Alkylation of Amines by Alcohols in a Continuous Flow Reactor”, EuropaCat X, August 28-September 2, **2011**, Glasgow, Scotland.

#### Invited Lectures and Symposia:

77. Invited Speaker, 18<sup>th</sup> European Symposium on Organic Chemistry (ESOC18), Marseille, France (July 8-12, 2013).
76. Invited Speaker, “A Celebration of Organic Synthesis”, SCI Fine Chemicals Group biennial conference, AstraZeneca, Alderley Edge (September 24-25, 2012)
75. Invited Speaker, XXV International Conference on Organometallic Chemistry (XXV ICOMC), Lisbon, Portugal (September 2-7, 2012)
74. Research Seminar, Scripps Research Institute, La Jolla, California, USA (March 29, 2012)
73. Invited Speaker, Special Symposium on “Sustainable Inorganic Chemistry”, ACS National Meeting, San Diego, USA (March 25-27, 2012)
72. Research Seminar, University of Leicester (February 29, 2012)

71. Invited Speaker, McBain Medal Award Lecture, SCI London (December 12, 2011)
70. Invited Speaker, Montego Bay Group Workshop on Advanced Reaction Environments, Hong Kong, PRC (November 28-30, 2011)
69. Research Seminar, Shanghai Institute of Organic Chemistry (SIOC), Shanghai, PRC (November 25, 2011)
68. Research Seminar, School of Pharmaceutical Science and Technology, Tianjin University, Nankai, PRC (November 22, 2011)
67. Research Seminar, National Institute of Biological Sciences (NIBS), Beijing, PRC (November 18, 2011)
66. Research Seminar, West China School of Pharmacy, Sichuan University, Chengdu, PRC (November 17, 2011)
65. Young Plenary Lecture (awarded by *New Journal of Chemistry*), XIX EuCheMS Conference on Organometallic Chemistry (XIX EuCOMC), Toulouse, France (July 3-7, 2011)
64. Research Seminar, Institut de Chimie des Substances Naturelles (ICSN), Gif-sur-Yvette, France (April 28, 2011)
63. Research Seminar, Firmenich, Geneva, Switzerland (April 1, 2011)
62. Invited Speaker, RSC North East Regional Meeting, University of Newcastle-Upon-Tyne (March 1, 2011)
61. Invited Speaker, French Chemical Society Symposium (ICO 2010), Paris (September 21-23, 2010)
60. Invited Speaker, 3rd EuCheMS Chemistry Congress: “*Chemistry: The Creative Force*”, Nürnberg, Germany (August 29-September 2, 2010)
59. Invited Speaker, International Symposium on Homogeneous Catalysis (ISHC-17), Poznań, Poland (July 4-9, 2010)
58. Plenary Lecture, The Pierre Fabre Chemistry Day, Abbaye École de Sorèze, Sorèze, France (June 11, 2010)
57. Research Seminar, University of Texas at Austin, USA (April 22, 2010)
56. Research Seminar, University of Purdue, Indiana, USA (April 20, 2010)
55. Research Seminar, Eli Lilly, Indiana, USA (April 16, 2010)
54. Research Seminar, University of Bristol (November 16, 2009)
53. Research Seminar, University of Chicago, Chicago, USA (July 29, 2009)
52. Research Seminar, University of Illinois, Chicago, USA (July 28, 2009)
51. Research Seminar, University of Wisconsin, Madison, USA (July 27, 2009)
50. Invited Speaker, Gordon Research Conference: “Organic Reactions and Processes”, Rhode Island, US (July 19-24, 2009)
49. Invited Lecturer, EPSRC Catalysis Summer School, Liverpool University (July 13-17, 2009)
48. Invited Speaker, ZaCh System Symposium in Organic Synthesis, Paris, France (May 15, 2009)
47. Research Seminar, National University of Singapore, Singapore (September 19 and 29, 2008)
46. Plenary Lecture, XXVI “Reunión del Grupo Especializado en Química Organometálica”, Santiago de Compostela, Galicia, Spain (September 9-12, 2008)
45. Research Seminar, Sanofi-Aventis, Bridgewater, NJ, USA (July 21, 2008)
44. Research Seminar, Brandeis University, USA (July 18<sup>th</sup>, 2008)
43. Invited Speaker, UK-Singapore Symposium: “Contemporary Organic Synthesis, Methods and Techniques”, British Council-RSC-SNIC-GSK, Biopolis, Singapore (February 25-27, 2008)
42. Invited Speaker, “Contemporary Organic Synthesis Symposium”, British Council-RSC-NSTDA, Thailand (February 22, 2008)
41. Invited Speaker, Joint ACG-SCI meeting: “Challenges in Catalysis for Pharmaceuticals and Fine Chemicals”, SCI London, UK (November 6, 2007)
40. Research Seminar, Syngenta, Jealott’s Hill International Research Station, UK (October 23, 2007)
39. Young Academics Symposium 2007, GlaxoSmithKline, Stevenage, UK (October 18, 2007)
38. Invited Lecturer, EPSRC Catalysis Summer School, Liverpool University (September 3-7, 2007)
37. Research Seminar, Universiti Teknologi Malaysia, Malaysia (August 15, 2007)
36. Research Seminar, University of Hong Kong, Hong Kong, PRC (August 14, 2007)
35. Supporting Speaker, RSC 20th International Symposium: Synthesis in Organic Chemistry, Churchill College, Cambridge (July 16-19, 2007)

34. Invited Lecture, 2007 National Organic Synthesis Trust (NOST) Meeting, Goa, India (July 7-10, 2007)
33. Invited Speaker, Pfizer Spring Symposium, Pfizer Global R&D, Sandwich, Kent, UK (March 22, 2007)
32. Research Seminar, St. Andrews University, Scotland (March 14, 2007)
31. Research Seminar, Chemical Research Laboratory, Oxford University (February 15, 2007)
30. Supporting Lecture, RSC Heterocyclic Meeting (40th Anniversary), Imperial College London (January 5, 2007)
29. Plenary Lecture, 9<sup>th</sup> International Symposium for Chinese Organic Chemists (ISCOC-9), Singapore (December 17-21, 2006)
28. Research Seminar, National University of Singapore, Singapore (December 13, 2006)
27. Young Academic Industrial Visit, AstraZeneca, Alderley Park, UK (September 7, 2006)
26. Research Seminar, UCB Pharma, Slough, UK (May 25, 2006)
25. Research Seminar, University of Glasgow, Scotland, UK (March 17, 2006)
24. Research Seminar, AstraZeneca, Macclesfield, UK (November 10, 2005)
23. Research Seminar, DSM, Geleen R&D, The Netherlands (October 7, 2005)
22. Invited Lecture, Young Chemists 2005 (YC05), Imperial College London (April 1, 2005)
21. Invited Lecture, RSC Coordination Chemistry Discussion Group, University of Leicester (July 12-15, 2004)
20. Invited Lecture, 4<sup>th</sup> Anglo-Dutch Symposium on Organometallic and Catalytic Chemistry (ADOCC-4), Cardiff, Wales (April 14-16, 2004)
19. Research Seminar, ETH Zürich, Switzerland (May 2003)
18. Research Seminar, Universidad de Santiago de Compostela, Spain (May 2003)
17. Research Seminar, DSM, Geleen R&D, The Netherlands (April 2003)
16. Research Seminar, University College Dublin, Ireland (March 2003)
15. Research Seminar, Institute of Chemical Process Fundamentals, Prague, Czech Republic (December 2002)
14. Research Seminar, Johnson Matthey plc, Royston, U. K. (October 2002)
13. Research Seminar, University of Leeds (May 2002)
12. Research Seminar, University College London (January 2002)
11. Research Seminar, University of Southampton (November 2001)
10. Research Seminar, Ibnu Sina Institute for Fundamental Science Studies, Johor, Malaysia (September 2001)
9. Research Seminar, National University of Singapore (September 2001)
8. Research Seminar, Queen Mary Westfield College (November 2000)
7. Research Seminar, SmithKline Beecham, Tonbridge, U. K. (April 2000)
6. Research Seminar, University of Nottingham (October 1999)
5. Invited Lecture, Younger Chemist's Meeting, SCI, London, U. K. (February 1999)
4. Research Seminar, University of Sheffield (December 1998)
3. Research Seminar, University of Newcastle-Upon-Tyne, U. K. (September 1998)
2. Research Seminar, Ecole Polytechnique, France (September 1998)
1. Research Seminar, British Petroleum, Sunbury, U. K. (September 1997)