

Curriculum Vitae

A) Personal Data

Name - Professor Chi-Ming Che
Date of Birth - September 7, 1957
Place of Birth - Hong Kong
Marital Status - Married
Present Post - Dr. Hui Wai-Haan Chair of Chemistry, The University of Hong Kong
H-Index 80 (11 March 2012)

Research Interests -

Inorganic and Organic Synthesis, Metal catalysed Organic Transformations, Organometallic and Inorganic Photochemistry, Electron Transfer Reactions in Biological Systems, Chiral Metal Catalysts, Asymmetric Organic Oxidations, Green Oxidations, Carbon-Hydrogen Bond Activation and Functionalization, Highly Reactive Metal-Carbon, Metal-Oxygen and Metal-Nitrogen Multiple Bonded Complexes, Luminescent Molecular Materials, Self-Assembled Nanostructured Materials and Coordination Polymers, Bioinorganic Chemistry, and Inorganic Medicines.

Summary of Publications-

Over 800 ISI papers including: Journal of the American Chemical Society (52), Angewandte Chemie-International Edition (31), Chemical Communications + Journal of the Chemical Society-Chemical Communications (118), Chemistry-A European Journal (48), Chemical Science (9), Dalton Transactions + Journal of the Chemical Society-Dalton Transactions (113), Inorganic Chemistry (77), Organometallics (19), Chemistry An Asian Journal (23), Organic Letters (26), Journal of Organic Chemistry (14), Advanced Materials (8), Applied Physics Letters (12), Coordination Chemistry Reviews (9), Accounts of Chemistry Research (1), Proteomics (6), Cancer Research (3), International Journal of Cancer (2), British Journal of Cancer (1), Chemical Society Review (1) and Cancer (1).

Fifteen papers were highlighted as Front Cover, including Chemistry – A European Journal (6), Chemistry – An Asian Journal (2), Chemical Society Reviews (1), Angewandte Chemie International Edition (1), Journal of the American Chemical Society (1), Chemical Communications (2), Inorganic Chemistry (1) and Dalton Transaction (1).

Seven papers were highlighted as Inside Cover, including Chemistry – A European Journal (3), Angewandte Chemie International Edition (2), Chemical Communications (1) and Chemical Science (1).

Summary of Citations (ISI) – He is a listed ISI Highly Cited Researcher *with over 21,575 citations excluding self-citations and his current H-index is 80 (up to March 2012)*. As up to March 2012, 51 papers each with over 100 citations.

B) Education Background

1975–1978 - B.Sc. (First Class Honour), The University of Hong Kong.
1978–1980 - Ph.D. in Inorganic Chemistry, The University of Hong Kong.
(Supervisor: Professor Chung-Kwong Poon).
1980–1983 - Research in Organometallic Photochemistry and Bioinorganic Chemistry, California Institute of Technology.
(Supervisor: Professor Harry B. Gray).

C) Academic and Working Experience

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| Member | <ul style="list-style-type: none">● American Chemical Society● Royal Society of Chemistry● Advisory Committee, Institution of Chemistry, Academia Sinica, Taiwan, 1994-1997.● Chinese Academy of Sciences, China (elected in 1995). (The first Hong Kong citizen elected to Chinese Academy of Sciences)● Research Board of Advisors of The American Biographical Institute (2000). |
| Fellow | <ul style="list-style-type: none">● The Royal Society of Chemistry● The Academy of Science for the Developing World TWAS in Chemical Sciences● Federation of Asian Chemical Societies |
| Lecturer | <ul style="list-style-type: none">● The University of Hong Kong, Aug 1983 - Aug 1990 |
| Reader | <ul style="list-style-type: none">● The University of Hong Kong, Sept 1990 - Oct 1992 |
| Chair Professor | <ul style="list-style-type: none">● The University of Hong Kong, Nov 1992 – present |
| Visiting Professor | <ul style="list-style-type: none">● Chemistry Department, National Taiwan University, Jul 1990 to June 1994● Jilin University, China (1996)● Sun Yat-Sen University (2004–2007) |
| Honorary Professor | <ul style="list-style-type: none">● Institute of Photographic Chemistry, Chinese Academy of Sciences, China (1997).● State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Chemistry, Chinese Academy of Sciences, China (1996).● Huazhong University of Science and Technology (1999).● Northeast Normal University (2002) |
| Professor | <ul style="list-style-type: none">● Chemistry Department, Nanjing University, China (1996-present)● Chemistry Department, Nankai University, China (1996)● Chemistry Department, Tsing Hua University, China (2009-2012) |
| Guest Professor | <ul style="list-style-type: none">● Peking University, China (1996) |
| Director | <ul style="list-style-type: none">● HKU-CAS Joint Laboratory on New Materials, The University of Hong Kong (2001 - present) |
| Visiting Research Associate | <ul style="list-style-type: none">● California Institute of Technology, Summer Vacations of 1984 - 1988. |
| Visiting Scientist | <ul style="list-style-type: none">● Invited by National Science Council of Taiwan and hosted by National Taiwan University, July-August of 1989 and April 2009.● National Research Council of Italy (2004) |
| Editor-in-chief | <ul style="list-style-type: none">● Advances in Transition Metal Coordination Chemistry, JAI |
| International Advisory Board | <ul style="list-style-type: none">● Journal of Chemical Society, Dalton Transactions (1998 - 2002)● New Journal of Chemistry (1998 - 2000) |
| Editorial Board Member | <ul style="list-style-type: none">● European Journal of Inorganic Chemistry (2001 - 2006)● Chemistry – A European Journal (2001 - present)● Chemistry - An Asian Journal (2006 - present)● The Open Inorganic Chemistry Journal (2007 - present)● ChemCatChem (2009 - present)● Journal of Inorganic Biochemistry (2009 – present)● Chemical Science (2010 – present)● Journal of the Chinese Chemical Society (2012 – present) |

D) Awards and Honor

- [1] 1994 National Natural Science Award of China (The 3rd Class)
- [2] 1995 Elected to Member of Chinese Academy of Sciences, China
- [3] 1997 Croucher Senior Fellowship Award from the Croucher Foundation of Hong Kong
- [4] Chung-Hsing S&T Lecturership, Taiwan
- [5] 2000 Distinguished Research Achievement Award honored by The University of Hong Kong
- [6] **National Outstanding Young Scholar Award, The National Science Foundation of China, 2000-2003.**
- [7] IUF Invited Professorship, France
- [8] 2003 Federation of Asian Chemical Societies (FACS) Foundation Lectureship Award
- [9] 2004 Visiting Scientist Award of National Research Council of Italy
- [10] Admitted to Fellow of The World Innovation Foundation
- [11] 2005 Admitted to Fellow of Federation of Asian Chemical Societies
- [12] Listed as ISI Highly Cited Researcher by ISIHighlyCited.com
- [13] Ranked 21st in a list of the world's top 40 most cited authors for their papers published in the widely-read journal *Chemical Communications* between 1965 and 2004; interviewed by *Chemical Communications*
- [14] Listed as one of the top 25 most prolific correspondence authors in *Chemistry - A European Journal* in the first 10 years (ranked 12th, see *Chemistry - A European Journal*, 2005, **11**, p. 11).
- [15] 2006 TWAS Prize in Chemistry from the Academy of Sciences for the Developing World
- [16] Pfizer Lectureship at the Sixth International Symposium for Chinese Organic Chemists (ISCOC-6) and Ninth International Symposium for Chinese Inorganic Chemists (ISCIC-9)
- [17] **1st Class State Natural Science Award of China**
- [18] **2007 Seaborg Lectureship at the University of California at Berkeley**
- [19] Prize of Ho Leung Ho Lee (HLHL) Foundation for Scientific and Technological Progress
- [20] Elected to Fellow of the Academy of Science for the Developing World TWAS in Chemical Sciences
- [21] 2008 Leader of the Year 2007 Prize, Hong Kong SAR.
- [22] **Edward Clark Lee Lectureship at University of Chicago**
- [23] 2009 Admitted as Fellow of The Royal Society of Chemistry
- [24] HKU Science Distinguished Alumni
- [25] KC Wong Education Foundation Lecturership
- [26] 2010 Nanqiang Lecturership at Xiamen University
- [27] 2011 Fudan Advisory Professorship at Fudan University

E) Lecturerships

- [1] Chung-Hsing S&T Lecturership, Taiwan, 23 April 1997.
- [2] Federation of Asian Chemical Societies (FACS) Foundation Lectureship Award 2003; “Phosphorescent Metal-Organic Compounds. From Electron Transfer Reactions in Biological Systems to New Molecular Materials for Organic Optoelectronics”, “Supported Ruthenium Catalysts for Organic Synthesis”, Award lecture presented at the 10th Asian Chemical Congress, Hanoi, Vietnam, 21 – 23 October, 2003.
- [3] Pfizer Lectureship at the Sixth International Symposium for Chinese Organic Chemists (ISCOC-6) and Ninth International Symposium for Chinese Inorganic Chemists (ISCIC-9), “Reactive Ruthenium-Ligand Multiple Bonded Complexes for Atom and Group Transfer Reactions”, held from 17 – 20 December, 2006 in Singapore.
- [4] Keynote Lecture at the Dalton Discussion 10: Applications of Metals in Medicine and Healthcare, “Some uses of transition metal complexes as anti-cancer and anti-HIV agents”, held from 3 – 5 September, 2007 at Durham University, UK.
- [5] **2007 Seaborg Lectureship at the University of California at Berkeley**
- [6] Distinguished Chinese Scientists Lecture on “Green Chemistry”, held from 25-27 October, 2007 at Science Museum, Hong Kong SAR, China.
- [7] **2008 Edward Clark Lee Lectureship at University of Chicago**
- [8] Lecturership at The Forum for the 60th Anniversary Celebration of Dalian Institute of Chemical Physics, “Selective Alkane Activation and Aerobic Oxidations with Practical Interest”, held at 4 May 2009, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China.
- [9] Inorganic Chemistry Forum Lecture, “Anti-Cancer and Anti-Viral Transition Metal Complexes”, 24 September 2009, Institute of Inorganic Chemistry, Peking University, Beijing, China
- [10] Molecular Sciences Forum Lecture Professorship of Center for Molecular Science and Chinese Chemical Society, 25 September 2009, China: Lecture at Institute of Chemistry, Chinese Academy of Science, “The Unique phosphorescent planar metal complexes. From photocatalysis to material science applications and medicines” 25 September 2009, China.
- [11] Nanqiang Lecturership at Xiamen University “Self-Assembled Molecular Functional Materials Directed by Metal-Metal Interactions and Metal-Ligand Coordination” 16-18 September 2010, China.
- [12] Fudan Advisory Professorship at Fudan University, “Green Chemistry: Iron Catalyzed Atom and Group Transfer Reactions” on 27 June 2011, Shanghai, China

F) Plenary and Keynote Lectures

- [1] **Plenary Lecture “Metal-Ligand Multiple Bonds. Oxo, Imido and Nitrido Complexes of Ruthenium and Osmium” at the 30th International Conference on Coordination Chemistry held in Kyoto, Japan, July 25-29, 1994.**
- [2] Plenary Lecture “Metal Complexes of Heterocyclic Ligands for Organic synthesis and Photochemical Reactions “at the Hong Kong International Symposium on Heterocyclic Chemistry,

- Hong Kong (organised under the auspices of the International Society of Heterocyclic Chemistry), August 13-16, 1995.
- [3] Plenary Lecture at World Chinese Workshop on Applied Chemistry to give a one hour lecture “Ruthenium Catalysed Organic Oxidation, Alkene Cyclopropanation, and Alkene Aziridination”organised by Zhejiang University and The Hong Kong Polytechnic University in Hangzhou, China, September 10-13, 1995.
- [4] Keynote Lecture “Oxo and Imido Complexes of Ruthenium for Catalytic and Asymmetric Oxidation and Aziridination of Alkenes” at the Fifth Eurasia Conference on Chemical Sciences held in Guangzhou, China, December 10-14, 1996.
- [5] Keynote Lecture on “Luminescent Metal Complexes with Metal-Metal and Ligand-Ligand Interactions” at The First International Symposium on Inorganic Chemistry for Chinese Scientists held in Hong Kong, July 14-19, 1996.
- [6] Plenary Lecture at the 3rd National Meeting of Coordination Chemistry held in Xian, China, September 1997.
- [7] Keynote Lecture at Symposium “New Trends in Catalytic Oxidations” held in Osaka University, Japan, December 1-5, 1997.
- [8] **Plenary lecture “Chiral ruthenium-oxo and imido porphyrin complexes for asymmetric oxidations and aziridinations” at the 9th International Symposium on Novel Aromatic Compounds, organised by IUPAC, held in Hong Kong, August 2-7, 1998.**
- [9] Keynote Lecture “Ruthenium-Carbon Multiple Bonded Complexes containing Macrocyclic Tertiary Amine and Porphyrin Ligands” at the XIXth IUPAC International Conference on Organometallic Chemistry (XIX ICOMC), Shanghai, China, July 23-28, 2000.
- [10] Plenary Lecture at The Third Conference for Worldwide Chinese Young Chemists, “Inorganic Photochemistry: Past, Present, and Future”, held in Xiamen, China, December 20-23, 2000.
- [11] **Plenary Lecture at the 15th International Symposium on Photochemistry and Photophysics of Coordination Compounds (ISPPCC), “Structural and Spectroscopic Evidence for Weak Metal-Metal Interactions and Metal-Substrate Exciplex Formation”, held at The University of Hong Kong, July 4–9, 2004.**
- [12] Plenary Lecture at the International Symposium on Catalysis and Fine Chemicals 2004 (C&FC 2004), “Ruthenium Porphyrin Catalysts for Organic Synthesis”, held at The Hong Kong Polytechnic University, December 12-15, 2004.
- [13] Plenary Lecture at 第一屆納米與生物交流科學研討會 – 青島, “*Functional Molecular Materials. From Nanomedicine to Field-Effect Transistors*”, held from May 4-7, 2005 in Qingdao, China.
- [14] Plenary Lecture at the 4th National Conference on Chemical Biology and International Symposium on the Interdisciplinary Science of Chemistry with Biology and Medicine held in Wuhan, China, October 9-12, 2005.
- [15] Plenary Lecture at the 7th National Conference of Chinese Chemical Society on Inorganic Chemistry, “Self-Assembled Functional Molecular Materials for Optoelectronic Applications”, held from July 18 – 22, 2007 at Hohhot, Inner Mongolia, China.

- [16] **Keynote Lecture at the Dalton Discussion 10: Applications of Metals in Medicine and Healthcare, “Some uses of transition metal complexes as anti-cancer and anti-HIV agents”, held from September 3 – 5, 2007 at Durham University, UK**
- [17] Keynote Lecture at The First Asian Conference on Coordination Chemistry, “Luminescent Platinum(II) Complexes. Photophysical Properties and Materials Science Applications”, held from July 29 – August 2, 2007 at Okazaki, Japan,.
- [18] Plenary Lecture at The 9th Conference on Biological Inorganic Chemistry of the Chinese Chemical Society, “Some uses of transition metal complexes as anti-cancer and anti-HIV agents”, held from October 19-22, 2007 at Guilin, China.
- [19] Keynote Lecture at 2007 International Conference on Nanotechnology & Advanced Materials, “Research on Nano-structured Materials at HKU-CAS Jointed Laboratory on New Materials: Applications in Organic Optoelectronics and Biomedical Sciences”, held from December 11-13, 2007 at Hong Kong, China.
- [20] Keynote Lecture at International Workshop on Green Chemistry, “Ruthenium-Catalyzed Organic Oxidation Reactions with Dioxygen or Hydrogen Peroxide as Terminal Oxidant”, held April 28, 2008 at City University of Hong Kong, Hong Kong.
- [21] Symposium Keynote Speaker at the Fifth International Conference on Porphyrins and Phthalocyanines (ICPP-5), “Metalloporphyrin Catalyzed Functionalization of C-H Bonds and Activation of Dioxygen for Practical Organic Catalysis”, held 6-11 July 2008 at Moscow, Russia.
- [22] **Plenary Lecture at 38th International Conference on Coordination Chemistry (ICCC38), “The unique phosphorescent square planar metal complexes from photocatalysis, materials science applications to medicines”, held 20-25 July, 2008, at Jerusalem, Israel.**
- [23] Keynote Speaker and Organic program committee at 14th International Workshop on Inorganic and Organic Electroluminescence & 2008 International Conference on the Science and Technology of Emissive Displays and Lighting, “New OLED Materials Technologies for Displays, Illumination and Backlighting”, held 9-12 September 2008 at Rome, Italy.
- [24] Keynote Lecture at Tateshina Conference on Organic Chemistry, “Atom and Group Transfer Catalysis with Reactive Metal-Ligand Multiple Bonded Complexes”, held 7-9 November 2008 at Nagano, Japan.
- [25] Keynote Lecture at The 4th Asian Biological Inorganic Chemistry Conference (AsBic IV) “Medicinal Applications of Transition Metal-Based Coordination Complexes”, held 10-13 November 2008 at Jeju, Korea.
- [26] Keynote Lecture at Frontier in Inorganic Chemistry, “Anti-Cancer and Anti-viral Transition Metal Complexes” at The Hong Kong Polytechnic University, 28 November, 2008.
- [27] **Plenary Lecture at Inorganic Chemistry Conference IC08, “Atom and Group Transfer Catalysis with Reactive Metal-Ligand Multiple Bonded Complexes”, held 14-18 December 2008 at University of Canterbury, Christchurch, New Zealand.**
- [28] Plenary Lecture at The 8th International Conference on Optical Probes of Conjugated Polymers and Organic Nanostructures, “Functional Supramolecular Nanostructures Self-assembled from organometallic Complexes: Properties and Applications”, 6-10 June 2009, Beijing, China.
- [29] Plenary Lecture 6th National Organic Chemistry Conference, “Gold catalysed Organic Transformation Reactions”, held 17-20 August 2009, Xian, China

- [30] Plenary Lecture at the 5th National Conference on Physical Inorganic Chemistry, “Self-Assembled Functional Metal Coordination Polymers and Nanostructures Directed by Metal-Metal Interactions and Metal-Ligand Bonding”, held 20-23 September 2009, Shantou, China
- [31] **Plenary Lecture at The 2nd Asian Conference on Coordination Chemistry, “Photophysical properties, photocatalysis, and material science applications of phosphorescent platinum(II) complexes”, 1-4 November 2009, Nanjing, China**
- [32] Plenary Lecture at 6th Singapore International Chemical Conference (SICC 6), “Phosphorescent Square Planar Metal Complexes”, held 15-18 December 2009, Singapore.
- [33] Keynote Lecture at the Sixth International Conference on Porphyrins and Phthalocyanines (ICPP-6), “Selective Functionalization of Alkanes Catalyzed by Metalloporphyrin Complexes”, 4-9 July 2010, New Mexico, USA.
- [34] Plenary Lecture at The 16th National Symposium on Organometallic Chemistry (NSOC-2010), 22-25 October 2010 in Wenzhou, China.
- [35] Plenary Lecture at International Symposium on Activation of Dioxygen and Homogeneous Catalytic Oxidation, “Practical Organic Oxidation Using Iron Catalysts and Photogenerated Singlet Oxygen”, July 3-8, 2011, Okinawa, Japan.
- [36] Plenary Lecture at The 16th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS 16), “Practical Iron Catalyzed Atom and Group Transfer and Insertion Reactions”, July 24-28, 2011, Shanghai, China.
- [37] Plenary Lecture at International Workshop on Organic Composite Optoelectronic Materials and Devices, “Self-Assembled Molecular Functional Materials” August 4-8, 2011, Weihai, China.
- [38] Keynote Lecture at 3rd Asian Conference on Coordination Chemistry (ACCC3), “Homoleptic Metal-containing Self-assembled Coordination Polymers”, October 17-20, 2011, New Delhi, India.

G) Invited Lectures

- [1] Invited Speaker (Travel Expenses sponsored by the Organizer) at General Telephone Electric Laboratories Incorporated, USA, December 1985.
- [2] **Invited Speaker (with honorarium) to give a 30-40 minute lecture at the Annual Industrial Associate Conference on Oxidation Chemistry held at California Institute of Technology, February 1986.**
- [3] Invited Speaker (with honorarium) to give an one-hour lecture at the International Symposium on Chemistries of Macrocyclic Complexes held at the Institute for Molecular Science Okazaki, Japan, March 1989.
- [4] **Invited Speaker (with honorarium) to give a 30-40 minute lecture at the Symposium on Atom Transfer Reactions, National Meeting of American Chemical Society, held in Dallas, USA, April 1989.**

- [5] Honorary Speaker invited by the National Science Council of Taiwan to deliver a 30-40 minute lecture at the Annual Chemistry Meeting of Taiwan, 1990.
- [6] Invited Speaker (with honorarium) to give a 45 minute lecture on "Oxidation of Alkanes by Ruthenium-Oxo Complexes" at the Petrochemistry Division of National Meeting of American Chemical Society held in Boston, USA, April 1990.
- [7] Invited Speaker (with honorarium) to give a 30 minute lecture at the EuroAsian Meeting held in Seoul, Korea, April 1990.
- [8] Invited Speaker (with honorarium) to give an one-hour lecture at the Florida Catalysis Conference organised by the American Chemical Society held in Florida, USA, April 1991.
- [9] Invited (with honorarium) by the Arco Chemical Company, USA, to deliver a lecture at the Arco Chemical Company, October 1991.
- [10] Invited Speaker (with honorarium) to deliver a 30 minutes lecture "Molecular design for Photo-Redox Reactions and Organic Oxidation" at the International Symposium on Inorganic and Organic Chemistry in Commemoration of the 60th Anniversary of the Chinese Chemical Society held at National Taiwan University, Taiwan, November 20-23, 1992.
- [11] Invited Speaker (with honorarium) to deliver a 60 minutes lecture "The Redox Reactions of Nitrido and Imido Complexes of Ruthenium and Osmium" at the 3rd CBM International Symposium on Biofunctional Molecules held at Pohang Institute of Science and Technology, Korea, November 21-24, 1992.
- [12] Invited Speaker (with honorarium) to deliver a 30-40 minutes lecture at the 3rd Eurasia conference on Chemical Sciences held in Bangkok, December 14-18, 1992.
- [13] Invited Speaker to deliver a 30 minutes lecture on "Donor-Acceptor Supramolecular Platinum Complexes. Synthesis and Photoluminescent Studies" at the 10th International Symposium of Photochemistry and Photophysics of Coordination Compounds held in Sendai, Japan, July 25-30, 1993.
- [14] Invited Speaker (with honorarium) to deliver a 40 minutes lecture "Hydrocarbon Oxidation and Alkene Epoxidation by Ruthenium and Manganese Complexes" at the 34th IUPAC Congress held in Beijing, China, August 15-20, 1993.
- [15] Invited Speaker of the First and Second Annual Scientific Conferences and Annual General Meeting organised by Hong Kong Institution of Science, 1993 and 1994.
- [16] Invited Speaker (with honorarium) to deliver a 30 minute lecture at the 3rd Japan-Sino Binational Symposium on Photochemistry held in Osaka, Japan, October 26-29, 1994.
- [17] Invited Speaker at the Inorganic Photochemistry Symposium at the 1995 International Chemical Congress of Pacific Basin Societies organised by the American Chemical Society, December 17-22, 1995.
- [18] Invited Speaker at the 23rd International Symposium on Macrocyclic Chemistry held in Hawaii, June 7-12, 1998.
- [19] Invited Speaker at the Xiangshan Science Conference on Supramolecular Systems held in Beijing, China, October 16-21, 1998.

- [20] Invited Speaker to give a 30 minute lecture “Luminescent Metal-Organic Compounds for Molecular Recognitions and Blue Light Emitting Diode Devices” at the 2nd SANKEN International Symposium held in Osaka, Japan, January 26-27, 1999.
- [21] Invited Speaker to give a 30 minutes lecture “Luminescent Transition Metal Compounds as Advanced Materials for Light Emitting Diodes” at the Asia-Pacific Symposium on Organic Electroluminescent Materials and Devices in Hong Kong, June 8-11, 1999.
- [22] Invited Speaker to give a 30 minutes lecture on “ The Fascinating Gold(I) Photoluminescence” at the 2nd Asian Photochemistry Conference held in Seoul, Korea, June 28-July 1, 1999.
- [23] Invited Speaker at the Int’l Symposium on Photonics & Applications held in Singapore, November 29-December 3, 1999.
- [24] Invited Speaker at the 8th International SPACC Symposium-Chemistry for Selective Reactions-Coordination Chemistry in Harmony with Other Fields of Chemistry, “Ruthenium porphyrins as a new class of catalysts for organic synthesis”, held in Beijing, China, October 17-19, 2001.
- [25] Invited Speaker of Singapore International Chemical Conference (II). Frontiers in Chemical Design and Synthesis, “Reactive iron, ruthenium and osmium-carbene complexes for carbon-carbon bond formation reactions”, Singapore, December 18-20, 2001.
- [26] Invited Speaker at the Chinese Academy of Sciences Mainland – Hong Kong Academicians Forum held in Hong Kong, May 24-25, 2002.
- [27] Invited Speaker at the 2nd International Conference on Porphyrins and Phthalocyanines, “Chiral Ruthenium-Oxo, Imido and Carbene Complexes with Porphyrin Ligands for Enantioselective Carbon-Oxygen, Carbon-Nitrogen and Carbon-Carbon Bond Formations”, held in Kyoto, Japan, June 30-July 5, 2002.
- [28] Invited Speaker at the XIXth IUPAC Symposium on Photochemistry, “Luminescent Platinum(II) Complexes with Cyclometalated and Aromatic Diimine Ligands: Photophysical Studies and Applications”, held in Budapest, Hungary, July 14-19, 2002.
- [29] Invited Speaker at the Taiwan Bioinorganic Chemistry Symposium 2003, “Ruthenium-Catalyzed C–H Bond Functionalization”, held in Hsinchu, Taiwan, October 2-4, 2003.
- [30] Invited Speaker at the Third International Conference on Porphyrins and Phthalocyanines, “Ruthenium Porphyrin Catalysts for Organic Synthesis”, held in New Orleans, USA, July 11-16, 2004.
- [31] Invited Speaker at the First Chemistry Week of Changchun, “Bioinspired Organic Catalysis”, held in Changchun, China, August 9, 2004.
- [32] Invited Speaker at the International Symposium on Chemicals and Pharmaceuticals, “Bioinspired Organic Catalysis”, held in Guangzhou, China, December 16-18, 2004.
- [33] Invited Speaker [a 35-minute lecture] at the 229th American Chemical Society National Meeting, Symposium on Frontiers in Inorganic Spectroscopy and Photochemistry, “Luminescent Platinum(II) Materials. Spectroscopic characterization of Metal-Metal-to-Ligand and Ligand-to-Ligand Charge Transfer Excited States and Sensory Materials Applications”, held at San Diego, US, March 13-17, 2005.
- [34] Invited Speaker at the National Conferences of Coordination Chemistry and Bioinorganic Chemistry, “Metal-Carbon Multiple Bonded Complexes: Bondings, Catalysis and Materials

- Science Applications”, held from November 19, 2005 in Sun Yat-Sen University, Guangzhou, China.
- [35] Invited Speaker at the Singapore International Chemical Conference 4 (SICC-4), “Metal-Carbon Multiple Bonded Complexes: Bondings, Catalysis and Materials Science Applications”, held from December 8-10, 2005 in Shangri-La Hotel, Singapore.
- [36] Invited Speaker at the 2005 International Chemical Congress of Pacific Basin Societies (Pacifichem 2005), “Neutral luminescent platinum(II) materials with multi-anionic chelating ligands: photophysical studies and applications in high-performance orange and red OLEDs”, held from December 15-20, 2005 in Honolulu, Hawaii, USA
- [37] Invited Speaker at the International Conference on Porphyrins and Phthalocyanines (ICPP-4), “Chiral metalloporphyrin catalysts for Lewis-acid catalyzed organic reactions and oxidative carbon-oxygen and carbon-nitrogen bond formation reactions”, held from July 2-7, 2006 in Rome, Italy.
- [38] Invited Speaker at the 6th International Conference on Electroluminescence of Molecular Materials and Related Phenomena (ICEL-6), “Phosphorescent Platinum(II) Materials for Organic Photonics and Nano-Devices”, held from August 6-10, 2006 in the City University of Hong Kong.
- [39] Invited Poster Presentation by the 232nd American Chemical Society National Meeting, “Bis(pyridyl)allynylidene Complex of Ruthenium with a Tetradentate Macrocyclic Amine: a “Molecular Clip” that Displays Intense Near Infrared Absorption upon Coordination to Ruthenium(II)”, held from September 10-14, 2006 in San Francisco, USA. [Frontiers of Inorganic Chemistry: The Gray Areas]
- [40] Invited Speaker at the Third Asian Biological Inorganic Chemistry Conference (AsBIC-III), “Metalloporphyrins as a New Class of Anti-Cancer Compounds”, held from October 30-November 3, 2006 in Nanjing, China.
- [41] Invited Lecture at the 3rd Sino-US Symposium on Organic Chemistry, “Reactive Ruthenium Carbenoid Complexes for Group Transfer Reactions”, held from Jun 1 –2, 2007 in Wuhan, China.
- [42] Invited Lecture at the 234th ACS National Meeting Boston on “Functional nanostructured phosphorescent materials driven by weak closed-shell metal-metal interactions and metal-ligand coordination”, held at August 19, 2007 in Boston, USA,.
- [43] Invited Speaker at Frontiers of Material Chemistry, “Phosphorescent Platinum(II) Materials. Spectroscopy, Photophysical Properties and Materials Science Applications” held on 6 September 2007 at The University of Warwick, U.K.
- [44] Invited Speaker at ISHC-XVI International Symposium on Homogeneous Catalysis, “Metal Catalyzed Oxidation of Organic Compounds with Dioxygen or Hydrogen Peroxide as Terminal Oxidant”, held 6-11 July 2008, Florence, Italy.
- [45] Invited Speaker at 2008 Materials Research Society Fall Meeting, “Self-Assembled Functional Molecular Materials for Optoelectronic Applications”, held 1-5 December 2008 at Boston, U. S. A.
- [46] Invited Speaker at Envonik Meets Science China 2009 Catalytic Processes, “Ruthenium-catalyzed organic oxidation reactions with oxygen or hydrogen peroxide as terminal oxidant”, held 20 March 2009, Shanghai, China.

- [47] Invited Speaker at Professor Peng's 60th birthday Symposium, "The unique phosphorescent planar metal complexes. From photocatalysis to materials science applications and medicines", held 30 May 2009, Taiwan.
- [48] Invited Speaker at Academia sinica, "Anti-Cancer and Anti-viral Transition Metal Complexes", held 1 June 2009, Taiwan.
- [49] Invited Speaker at 6th National Conference on Coordination Chemistry, "Self-assembled Metal Coordination Polymers", held 6-9 July 2009, Hong Kong SAR, China.
- [50] Invited Speaker at Frontiers In Chemistry, "Metal-Catalyzed Atom and Group Transfer Reactions for Practical Organic Synthesis" 20-22 July 2009, Singapore
- [51] Invited Lecture at Tsing Hua University, "Gold Catalysed Organic Transformation Reactions" on 24 September 2009, Beijing, China (supported by KC Wong Education Foundation Lecturership).
- [52] Invited Lecture at Technical Institute of Physics and Chemistry (TIPC), "Selective Alkane Activation and Aerobic Oxidations with Practical Interest", 25 September 2009, China (supported by KC Wong Education Foundation Lecturership).
- [53] Invited Lecture at City University of Hong Kong, "Selective Activation of C-H Bonds by Atom and Group Transfer Reactions", 24 February 2010, Hong Kong SAR, China.
- [54] Invited Lecture at Molecular Engineering Symposium on Nanostructured Functional Materials for celebrating JLU-PUV (Jilin University-Polytechnic University of Valencia) collaboration, "Self-Assembled Multi-Functional Coordination Polymers", 10-11 April 2010, Jilin University, Changchun, China.
- [55] Invited Lectures at Visiting Hubei Scheme of Famous Scientists, "The unique phosphorescent planar metal complexes. From photocatalysis to materials science applications and medicines" and "Anti-Cancer and Anti-Viral Transition Metal Complexes", 20-23 May 2010, Wuhan, China.
- [56] Invited Lecture at the 6th Asian-European Symposium on Metal Mediated Efficient Reactions, "Gold-Catalyzed Reactions", 7-9 June, 2010, Singapore.
- [57] Invited Lecture at Gordon Research Conferences: Metals In Medicine (Medicinal Inorganic Chemistry), Anti-cancer gold complexes, 27 Jun -2 Jul 2010, Proctor Academy, Andover, NH, U.S.A.
- [58] Invited Lecture at International Symposium on Advancing the Chemical Sciences: Challenges in Inorganic and Materials Chemistry (ISACS3), "Functional Molecular Materials and Photo-Catalysis with Phosphorescent Square Planar Metal Complexes", 20-23 July 2010 Hong Kong SAR China.
- [59] Nanqiang Lectureship at Xiamen University, "Self-Assembled Molecular Functional Materials Directed by Metal-Metal Interactions and Metal-Ligand Coordination", 16-18 September 2010, China.
- [60] Special Invited Lecture at The 60th Anniversary Conference on Coordination Chemistry (60CCCO), "Self-Assembled Molecular Functional Materials", 27-30 September 2010, Osaka, Japan.
- [61] Invited Lecture at UGC AoE on Institute of Molecular Functional Materials Research Symposium, Department of Chemistry, "Phosphorescent Metal Complexes. The Heavy Atom Effect, Materials

Science Applications, and Photochemistry”, 8–9 November 2010, The University of Hong Kong, Hong Kong

- [62] Invited Lecture at The 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem), “Self-assembled metal coordination polymers and nanostructures by metal-metal and metal-ligand interactions: Functions and structures” in the Area of (2) Inorganic and the Session of Molecular Photonics (#9), 15–20 December 2010, Honolulu, Hawaii, USA.
- [63] Invited Speaker at the Molecular Materials Meeting (M3) @ Singapore – An international conference on “Big Ideas in Molecular Materials”, “Self-Assembled Molecular Functional Materials”, 10 – 11 January 2011, Singapore.
- [64] Invited Lecture at Inorganic Chemistry Symposium in National Chung Cheng University, “Practical Iron Catalysed Atom and Group Transfer Reactions” Chiayi, Taiwan on April 29, 2011.
- [65] Lecture at Fudan Advisory Professorship, “Green Chemistry: Iron Catalyzed Atom and Group Transfer Reactions” Fudan University, June 27, 2011, Shanghai, China.
- [66] Invited Lecture at The 242nd American Chemical Society National Fall Meeting, Division of Polymer Chemistry, Symposium on “Metal-Containing and Metallo-Supramolecular Polymers and Materials”, “Functional supramolecular metal-containing polymeric materials” August 28–September 1, 2011, Denver, U.S.A.
- [67] Invited Speaker at 光电功能有机金属配合物-新结构、新功能与新应用研讨会 on September 10, 2011, Changchun, Jilin, China.
- [68] Invited Lecture at The 6th International Conference on Cutting Edge Organic Chemistry in Asia / The 2nd New Phase International Conference on Cutting Edge Organic Chemistry in Asia (ICCEOCA-6/NICCEOCA-2) “Practical Iron Catalysed C–H Bond Functionalization” December 11–15, 2011, LT1, Cheng Yu Tung Building, The Chinese University of Hong Kong

H) Academic Activities

- [1] Journal Referee - Referee for papers of Journal of American Chemical Society, Inorganic Chemistry, Chemical Communication, Journal of Chemical Society Dalton Transaction, New Journal of Chemistry, Inorganic Chimica Acta and Organic Letters, Chemistry-A European Journal, Chemical Reviews, Chemical Society Reviews.
- [2] Proposal Referee - Invited by the National Science Foundation USA to be the research proposal reviewer. Invited by the University and Polytechnic Granting Committee of Hong Kong, Hong Kong Baptist University, Hong Kong Research Grants Council to be the proposal reviewer.
- [3] Invited by the National Science Council of Taiwan to be the External / and Internal assessor for the award of "Outstanding Performance in Research", years 1988-1990, 1993-1994.
- [4] Invited by the National Science Council of Taiwan to be the Visiting Scientist, year 1989.
- [5] Invited by the National Taiwan University to be the external assessor for the Promotion of Academic Staffs from Associate Professor to Full Professor, year 1991.
- [6] **Appointed Member of Board of Trustees of Nanjing University, China (1997 - present).**

- [7] Invited by National Academy of Sciences USA to be a Participant at the 1st Annual Symposium on Chinese-American Frontiers of Science held in California, USA, August 28-30, 1998.
- [8] *Organized the The Croucher Advanced Study Institute "Advanced Techniques in Molecular Materials" held at The University of Hong Kong, April 12-16, 1999.*
 Invited Speakers included:
 Prof. Tobin J. Marks, "Self-assembly Strategies for Molecule-based Photonic Materials" and "Coordination Chemistry and Vapor Phase Routes to Metal Oxide Thin Films".
 Prof. Mark E. Thompson, "Optoelectronic Properties of Molecular Materials".
 Prof. A. P. Alivisatos, "Polymer / Nanocrystal Composites".
 Prof. D. M. Kolb, "The Study of Electrode Surfaces by Scanning Tunnelling Microscopy: From Imaging to Manipulation".
 Prof. P. Barbara, "Near Field Scanning Optical Microscopy / Spectroscopy and Singles Molecule Spectroscopy of Organic Thin Film Materials".
 Prof. Yasuo Wada, "Nano-lithography and the Role of Materials".
- [9] Invited by the National Science Council of Taiwan to be an external assessor for the award of Areas of Excellence in Physical, Engineering, and Biological Sciences, 1999.
- [10] Invited by the Nobel Committee of Chemistry, The Swedish Academy of Sciences to submit proposal for the Nobel Prize of Chemistry years 2000, 2006-2008
- [11] ***As a Chairman to Organize Frontier Applied Chemistry Research Workshop Series:***
 (a) Biomimetic and Asymmetric Oxidations (December 16-17, 1996).
 (b) New Vistas in Inorganic Chemistry (April 19-22, 1998).
 (c) 21st Century Molecular Synthesis and Catalysis (September 26-29, 1999).
Distinguished Speakers included:
 Prof. J.T. Groves, Prof. Mike Mingos, Prof. Gerard van Koten, Prof. Peter Sadler, Prof. S. I. Murahashi, Prof. J.E. Bercaw, Prof. Carlos Floriani, Prof. S.I. Chan, Prof. Daniel G. Nocera, Prof. R.J.Puddephatt, etc.
- [12] *As a Chairman to Organize Symposia on Chemical Biology:*
 (a) Symposium on Chemical Biology and Drug Discovery (December 11, 2001)
 Industrial R&D participants: Glaxo Wellcome and Arachnova.
 (b) Distinguished Lecture Series on Chemical Biology (March 12-16, 2001)
 Distinguished Visiting Professor: Prof. Stephen J. Lippard (MIT).
- [13] *As a Chairman to Organize Symposia on Molecular Technology for Drug Discovery and Synthesis* (July 19-20, 2001), co-organizer: Hong Kong Polytechnic University
 (a) Pre-Meeting for the 11th IUPAC Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS-11).
 (b) Invited Speakers included: Prof. Tobin Marks, Prof. Tamio Hayashi, Prof. Hung-Wen Liu, Prof. Earl Stadtman, etc.
- [14] *As a Chairman to Organize the 8th International Symposium on Applied Bioinorganic Chemistry (ISABC8) held at The University of Hong Kong, April 2-5, 2004.*
 Invited Speakers included:
 Prof. Ivano Bertini, "Structural Genomics of Metalloproteins".
 Prof. Yi Lu, "Design and Selection of Metalloenzymes: From Novel Biocatalysts to Selective Biosensors".
 Prof. Chris Orvig, "Vanadium Complexes as Insulin-Enhancing Agents in the Treatment of Diabetes".
 Prof. Lawrence Que, "Bio-inspired Hydrocarbon Oxidations by Non-heme Iron Catalysts".
 Prof. Andrew J. Thomson, "Multi-metal Sites for Biological Catalysis and Control".

Prof. Yoshihito Watanabe, “The Construction of Metalloenzymes by Utilizing the Protein Framework of Myoglobin”.

[15] Visiting Scientist of National Research Council of Italy, September 15-25, 2004. Four invited lectures have been delivered.

- (a) “Structural and Spectroscopic Evidence for Weak Metal-Metal Interactions and Metal-Substrate Exciplex Formation”
- (b) “Phosphorescent Metal-Organic Compounds. From Electron Transfer Reactions in Biological Systems to New Molecular Materials for Organic Optoelectronics”
- (c) “Luminescent Platinum(II) Complexes with Cyclometalated and Aromatic Diimine Ligands: Photophysical Studies and Applications”
- (d) “Bioinspired Organic Catalysis” in the Sacconi Foundation Fall Seminar 2004.

[16] Nominated for Japan Prize by The Science and Technology Foundation of Japan.

I) **PhD and MPhil Students Trained**

Supervisor of more than 120 Ph.D. (113 of which have completed their studies), 13 M.Phil. students (all completed), 2 exchange M.Phil students from Zhongshan University, 1 exchange Ph.D. student from Nanjing University.

1) **PAST AND CURRENT GRADUATE STUDENTS**

Ph.D. Students (Completed)

- [1] Professor *Wong Kwok-Yin*, (completed in 1986), Chair Professor, Department of Applied Biology & Chemical Technology, Dean of Faculty of Science, Hong Kong Polytechnic University.
- [2] Dr. Chung Wai-Cheung (completed in 1987), Senior Chemist at the Government Laboratory, Hong Kong.
- [3] *Professor Yam Vivian Wing-Wah* (completed in 1988), Chair Professor, Department of Chemistry, The University of Hong Kong.
- [4] Dr. Mak Shing-Tat (completed in 1988), Senior Environmental Protection Officer at the Environmental Protection Department.
- [5] Dr. Lee Wai-Man (completed in 1989), Chemist at the Government Laboratory.
- [6] Dr. Tang Wai-Tong (completed in 1989), Chemist at the Government Laboratory.
- [7] Dr. Leung Wai-Ho (completed in 1989), Environmental Protection Officer at the Environmental Protection Department.
- [8] Dr. Cheng Wing-Kin (completed in 1989), Regional Manager (West), Swire Sita Waste Services Limited.
- [9] *Professor Leung Wa-Hung* (completed in 1989), Professor at the Department of Chemistry, Hong Kong University of Science and Technology.
- [10] Dr. Lee Wai-On (completed in 1989), Senior Chemist at the Government Laboratory.
- [11] *Professor Lam Hon-Wah* (completed in 1990), Associate Professor, Department of Biology and Chemistry, City Polytechnic University of Hong Kong.
- [12] Dr. Li Chi-Keung (completed in 1991), Chemist at the Government Laboratory.
- [13] Dr. Clare Ho (completed in 1992), Senior Chemist at the Government Laboratory.
- [14] *Professor Yip Hon-Kay* (completed in 1993), Associate Professor at the Chemistry Department, National Singapore University, Singapore.
- [15] *Professor Li Dan* (completed in 1993), Professor at the Department of Chemistry, Vice President, Shantou University, China.
- [16] *Dr. Yeung Chi-Hung* (completed in 1994), Lecturer at the Department of Applied Biology & Chemical Technology, Hong Kong Polytechnic University.
- [17] *Dr. Yu Wing-Yiu* (completed 1994), Associate Professor, Hong Kong Polytechnic University.
- [18] *Dr. Chan Chin-Wing* (completed 1994), Associate Professor, Opening University of Hong Kong.
- [19] *Professor Li Zao-Ying* (completed 1994, PhD of Hong Kong Polytechnic University), Professor at the Chemistry Department, Wuhan University.
- [20] Dr. Cheng Wing-Chi (completed 1995), Senior Chemist at the Government Laboratory.
- [21] Dr. Lin Hsiu-Mei, National Taiwan University (completed 1995).
- [22] Dr. Cheng Luk-Kit (completed 1996).
- [23] Dr. Chin Kwok-Fai (completed 1996).
- [24] Dr. Chiu Wing-Hong (completed 1996).
- [25] Dr. Xiao Hong (completed 1996).
- [26] Dr. Ho Kwok-Keung (completed 1996).
- [27] Dr. Cheng Ming-Chuan (PhD of National Taiwan University, completed 1996).
- [28] Dr. Chan Chi-Keung (completed 1997), Deputy Director- Corporate R&D CSTC Standards Technical Services Co., Ltd.
- [29] Dr. Ko Po-Hung (completed 1997).
- [30] Dr. Cheung Tsz-Chun (completed 1997), Chemist at the Government Laboratory.

- [31] Dr. Yang San-Ming (completed 1997).
- [32] Dr. Cheng Yuk-Ki (completed 1997), Chemist at the Government Laboratory.
- [33] *Professor Liu Heng-Qian* (completed 1977), Professor at the Chemistry Department, Nankai University.
- [34] *Professor Tzeng Biing-Chiau* (completed 1997), Professor at the Chemistry Department, National Chung Cheng University.
- [35] Dr. Xue Wen-Mei (completed 1997).
- [36] Dr. Lee Fu-Wa (completed 1998).
- [37] Dr. Lo Wai-Cheung (completed 1998).
- [38] Dr. Fung Wai-Hong (completed 1998), Chemist at the Government Laboratory.
- [39] Dr. Chan Wing-Han (completed 1998), Chemist at the Government Laboratory.
- [40] Dr. Liu Chun-Jing (completed 1998).
- [41] Dr. Cheng Kar-Wai (completed 1998), Chemist at the Government Laboratory.
- [42] Dr. Lai Tat-Shing (completed 1998).
- [43] *Dr. Lai Siu-Wai* (completed 1999), Research Assistant Professor at The University of Hong Kong.
- [44] Dr. Chan Kwok-Chu (completed 1999), Chemist at the Government Laboratory.
- [45] Dr. Au Sze-Man (completed 1999), Environmental Protection Officer.
- [46] Dr. Chan Pui-Ming (completed 1999).
- [47] Dr. Zhou Xiang-Ge (completed 1999), Professor, Department of Chemistry, Sichuan University.
- [48] Dr. Tse Man-Chung (completed 2000).
- [49] *Dr. Zhang Rui* (completed 2000), Assistant Professor at Western Kentucky University.
- [50] *Professor Chao Hsiu-Yi* (completed 2001), Professor, Department of Chemistry, Zhongshan University
- [51] Dr. Leung Ka-Yan (completed 2002). Technical Service Manager at Johnson Matthey Hong Kong Limited.
- [52] Professor Lin Yong-Yue (completed 2002). Professor, Department of Chemistry, Yunnan Normal University
- [53] Dr. Xia Bao-Hui (completed 2002).
- [54] Dr. Mao Zhong (completed 2003).
- [55] Dr. Lu Wei (completed 2003), Associate Professor, South University of Science and Technology of China
- [56] Dr. Zhou Cong-Ying (completed 2003).
- [57] Dr. Liang Jiang-Lin (completed 2004).
- [58] Dr. Ma Dik-Lung (completed 2004), Assistant Professor, Department of Chemistry, Baptist University.
- [59] Dr. Chan Siu-Chung (completed 2004).
- [60] Dr. Yip Wing-Ping (completed 2004). Laboratory Instructor at The Hong Kong University of Science and Technology.
- [61] Dr. Li Yan (completed 2004).
- [62] Dr. Sun Wai-Yin (completed 2004), Research Assistant Professor, Department of Chemistry, The University of Hong Kong
- [63] Dr. Siu Kit-Man (completed 2004).
- [64] *Dr. Yip Ka-Lai* (completed 2004, Chemist at Drainage Department)
- [65] *Dr. Wong Chun-Yuen* (completed 2004), Assistant Professor, Department of Biology and Chemistry, City University of Hong Kong.
- [66] Dr. Li Gong Yong (completed 2004, Shanghai-Hong Kong Joint Laboratory in Chemical Synthesis).
- [67] *Dr. Zhang Jun-Long* (completed 2005), Associate Professor at Peking University, Beijing, China.
- [68] Dr. Kui Chi-Fai (completed 2005).
- [69] Dr. Kwok Chi-Chung (completed 2005).
- [70] Dr. Chen Jian (completed 2005, Shanghai-Hong Kong Joint Laboratory in Chemical Synthesis).

- [71] Dr. Wong Lai-Ming (completed 2006), Teaching Consultant, Department of Chemistry, The University of Hong Kong
- [72] Dr. Chan Wing-Kei (completed 2006).
- [73] Dr. Chen Rong (completed 2006). Professor, Wuhan Institute of Technology.
- [74] Dr. Li Jiayin (completed 2006, Shanghai-Hong Kong Joint Laboratory in Chemical Synthesis).
- [75] Dr. Xu Zhenjiang (completed 2006, Shanghai-Hong Kong Joint Laboratory in Chemical Synthesis, Investigator at Shanghai Institute of Organic Chemistry)
- [76] Dr. Tsui Wai-Man (completed 2006), Laboratory Instructor at The Hong Kong University of Science and Technology
- [77] Dr. Ng Fei-Yeung (completed 2006).
- [78] Dr. Wong Suk-Yu (completed 2006)
- [79] Dr. Xiang Hai-Feng (completed 2006), Associate Professor, Sichuan University
- [80] Dr. Shum Yuen-Ting (completed 2007)
- [81] Dr. Thu Hung-Yat (completed 2007)
- [82] Dr. Liu Yungen (completed 2007)
- [83] Dr. Chan Sau-Han (completed 2007)
- [84] Dr. Cheung Chi-Chuen (completed 2007)
- [85] Dr. Law Yuen-Chi (completed 2007, Chemist at Drainage Department)
- [86] Dr. Xie Jin (completed 2007)
- [87] Dr. Yan Kun (completed 2007), Associate Professor, Wuhan University
- [88] Dr. Chu Tsun Tung (completed 2007)
- [89] Dr. Xu Haiwei (completed 2007, Shanghai-Hong Kong Joint Laboratory in Chemical Synthesis)
- [90] Dr. Liu Yu-juan (completed 2007, Nanjing University)
- [91] Dr. Li Cheng-Hui (completed 2007, Nanjiang University), Lecturer, Department of Chemistry, Nanjing University.
- [92] Dr. Chan Lai-Fung (completed 2008), Assistant Professor, Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University
- [93] Dr. Li Ka-Lei (completed 2008)
- [94] Dr. Zhu Ming-Xin (completed 2008)
- [95] Dr. Chan Tak Chung (completed 2008), Chemist at Government Laboratory
- [96] Dr. Choi Kwok-Wai (completed 2008)
- [97] Dr. Jiang Gaoxi (completed 2008, Shanghai-Hong Kong Joint Laboratory in Chemical Synthesis), Associate Professor, Lanzhou Institute of Chemical Physics of Chinese Academy of Sciences
- [98] Dr. Chan Kwok-Wai (completed 2008)
- [99] Dr. Lo Kar-Yan (completed 2009)
- [100] Dr. Wu Peng (completed 2009)
- [101] Dr. Liu Peng (completed 2009)
- [102] Dr. Xu Zong-Xiang (completed 2009), Associate Professor, South University of Science and Technology of China
- [103] Dr. Cheng Kam-Ho (completed 2009)
- [104] Dr. Leung Hiu-Chi (completed 2009), Chemist at Government Laboratory
- [105] Dr. Low Kam-Hung (completed 2009)
- [106] Dr. So Man-Ho (completed 2009), Chemist at the Government Laboratory
- [107] Dr. Chow Lok-Fung (completed 2010)
- [108] Dr. Liu Xinyuan (completed 2010), Associate Professor, South University of Science and Technology of China
- [109] Dr. Wang Mingzhong (completed 2010)
- [110] Dr. Yuen Mei-Yan (completed 2010), Lecturer at the Open University
- [111] Dr. Chow Wai-Shan (completed 2010)
- [112] Dr. Yan Jing (completed 2010)
- [113] Dr. Wong Kwok-Ming (completed 2010)
- [114] Dr. Shiu Hoi-Yan (completed 2011), Chemical Analyst at the Government Laboratory

- [115] Dr. Chan Oi-Yee (completed 2011)
[116] Dr. Liu Jia (completed 2011)
[117] Dr. Tang Ho Wai (completed 2011), Chemist at the Racing Laboratory of Hong Kong Jockey Club

Ph.D. Students (current)

Raja Sekarreddy Annapureddy, Chan Ka Ho, Chang Xiaoyoung, Chen Daqing, Chow Pui Keong, Faisal Mehmood, Fong Tsz Him, Hao Fei, Hung Faan Fung, Kwong Wai Lun, Lam Kar Yee, Lam Tsz Lung, Law Siu Man, Li Kai, Lin Wing Shan, Ng Yin Ming, Tian Songhai, To Wai Pong, Tong Wai Tip, Wang Lin, Wong Yee Man Melody, Xiao Wenbo, Xiao Xinshan, Yeung Kwan Ting, Zhang Jingjing, Zou Taotao.

M.Phil. Students (completed)

- [1] Mr. Kwong Hoi-Lun (completed in 1989).
[2] Mr. Wan Kam-To (completed in 1990).
[3] Miss Brenda Ng Yuk-Yu (completed in 1996).
[4] Mr. Wong Kar-Ho (completed in 1999).
[5] Miss Ho Kin-Ying (completed in 1999).
[6] Miss Choi Mei-Yuk (completed in 1999).
[7] Mr. Wan Chun-Wai (completed in 2000).
[8] Miss Lam Hui-Fung (completed 2001).

[9] Mr. Ma Ji-Xiang, exchange (completed in 1987).
[10] Miss Ho Li-Yan, exchange (completed in 1988).

[11] Mr. Lo Wei-Chung, National Taiwan University (completed in 1993).
[12] Mr. Chen Tai-Yuan, National Taiwan University (completed in 1993).
[13] Mr. Lee Chun-Yuen, National Taiwan University (completed in 1995).

J) Research Interests and Research Grants Awarded

Research Interests

Inorganic and Organic Synthesis, Metal ions Promoted Organic Transformations, Organometallic and Inorganic Photochemistry, Electron Transfer Reactions in Biological Systems, Chiral Metal Catalysts, Asymmetric Organic Oxidations, Highly Reactive Metal-Carbon Multiple Bonded Complexes, Luminescent Materials, Bioinorganic Chemistry, and Inorganic Medicines.

Principal Investigator / Holders of the Following outside Research Grants

a) The Croucher Foundation

1989-1994, The Croucher Foundation, HK\$ 1,120,000, "Photochemical Catalysts and Energy Storage Reactions"

1995-2000, The Croucher Foundation, HK\$ 560,000, "Setting up of High-Power Picosecond Laser and a High-Power Nanosecond YAG Laser"

1998, The Croucher Foundation, HK\$ 520,000, The Croucher Advanced Study Institute "Advanced Techniques in Molecular Materials"

2004, The Croucher Foundation, HK\$ 40,000, Invitation of Professor M. E. Thompson from University of Southern California to deliver a series of postgraduate lectures and an Open Lecture on Organic Optoelectronics in June 2004 at HKU.

2008, The Croucher Foundation, HK\$ 1,000,000, "Luminescent Platinum(II) Complexes. Synthesis, Excited State Properties and Application Studies"

b) University Grant Council

2010, UGC, HK\$92,000,000, “Area of Excellence: Institute of Molecular Functional Materials” (Project Coordinator: Prof V. W.-W. Yam; PI: Prof. C.-M. Che)

2007, UGC, HK\$ 16,800,000, “Area of Excellence: Institute of Molecular Technology for Drug Discovery and Synthesis” [Sustained Funding]

2001, UGC, HK\$ 48,000,000, “Area of Excellence: Institute of Molecular Technology for Drug Discovery and Synthesis”.

c) Innovation and Technology Fund

2012, Innovation and Technology Fund, ITSP-Tier 3, HK\$ 878,990. “Metal-organic materials and prototype device for organic photovoltaic cell application”

2011, Innovation and Technology Fund, ITSP-Tier 3, HK\$ 959,100, “Direct Sample Analysis by Mass Spectrometry: Development and Analytical Application of Tip-Spray Ionization MS and Imaging MS”

2011, Innovation and Technology Fund, Innovation and Technology Support Programme Guangdong-Hong Kong Technology Cooperation Fund, HK\$ 13,664,990, “Research and Development of Phosphorescent Organic Light Emitting Diode (OLED) Materials and Prototype Devices for Lighting Applications”.

2010, Innovation and Technology Fund, Innovation and Technology Support Programme (Tier 2), HK\$ 12.7 million “Discovery and Pre-Clinical Evaluation of Promising Metal-Based Anti-Cancer Drug Leads”

2009, Innovation and Technology Fund, Innovation and Technology Support Programme (Tier 3), HK\$ 992,000 “New Materials for Organic/Polymer Based Photovoltaic Cells”

2008, Innovation and Technology Fund, Innovation and Technology Support Programme (Tier 3), HK\$ 996,516, “Green Chemistry. Application of Nanotechnology in Development of Highly Efficient and Environmental Friendly Chemical Synthesis”

2008, Innovation and Technology Fund, Innovation and Technology Support Programme-Platform Research Projects, (HK\$ 11,070,000 + sponsorship HK\$ 1,255,250), “Research & Development of New Materials for Printable Electrons”

2007, Innovation and Technology Fund, Innovation and Technology Support Programme (Tier 3), HK\$ 998,000, “Discovery and Preclinical Evaluation of the Gold(III) Complexes $[Au(CNC)]^{n+}$ as Novel Chemocytotoxic Agents for Hepatocellular Carcinoma and Nasopharyngeal Carcinoma”

2006, Innovation and Technology Fund, Innovation and Technology Support Programme (ITSP)-Guangdong-Hong Kong Technology Cooperation Funding Scheme, HK\$5.5 M + sponsorships HK\$0.6 M, “New OLED Materials Technologies for Displays, Illumination and Backlighting”

2001, Innovation and Technology Fund, HK\$ 6,000,000, “Research and Development of New Materials for Organic Light Emitting Devices”

d) Research Grant Council

2010, RGC, HK\$ 1,095,000, “Transition Metal-Catalysed Oxygenation Reactions. Biomimetic and Photochemical Approaches”

2009, RGC, HK\$ 1,217,076, “Phosphorescent Metal Complexes with d8 and d10 Electronic Configurations. Photochemistry, and Self-Assembled Nanostructure”

2009, RGC-Collaborative Research Fund, HK\$ 4,900,000, “Reactive Metal-Ligand Multiple Bonded Complexes. From Biomimetic Reactions to Highly Efficient Chemical Synthesis”

2008, RGC, HK\$ 883,200, “Metal-Catalyzed Atom and Group Transfer Reactions for Selective Functionalization of Carbon-Hydrogen Bonds”

2007, RGC, HK\$ 923,000, “Molecular Design and Application Studies of Photoluminescent *Platinum(II) Complexes*”

2006, RGC, HK\$ 707,690, “Reactive metal-oxo complexes of group VIII metals for organic oxidations”

2005, RGC, HK\$ 321,000, “Metal-carbon multiple bonded complexes in catalysis and supramolecular chemistry”

- 2004, RGC, HK\$ 579,800, “Metal-nitrogen multiple bonded complexes. Synthesis and applications in carbon-nitrogen bond formation reactions”**
- 2003, RGC, HK\$ 776,000, “Novel Photoluminescent, sensory and Photocatalytic Materials Derived from Closed-Shell Metal Ions and Pi-Conjugated Organics: Impact of Weak Intermolecular Interactions and Metal-Functionalization Upon Photophysical and Photochemical Properties”**
- 2002, RGC, HK\$ 645,000, “Oxidation Chemistry of Ruthenium and Osmium-Oxo Complexes, Biomimetic Oxidations and Photocatalysis”**
- 2001, RGC, HK\$ 761,589, “Metal-Carbon Multiple Bonds. From Materials Science and Carbon-Carbon Bond Forming Reactions”**
- 2000, RGC, HK\$ 711,817, “Metal Mediated Nitrogen Atom Transfer Reactions: Organoimido, Hydrazido and Dinitrogen Complexes of Ruthenium and Osmium”**
- *1999, RGC, HK\$ 1,557,000, “Luminescent Coordinative Unsaturated d^8 and d^{10} Metal Complexes. Photoluminescence Properties and Applications”**
- 1998, RGC, HK\$ 445,000, “Metal-Catalysed Asymmetric Organic Oxidations: Chiral Ruthenium-Oxo and Peroxo Complexes”**
- *1997, RGC, HK\$ 1,006,000, “High-Valent Nitrido and Imido Complexes of Ruthenium and Osmium for Nitrogen Atom Transfer Reactions”**
- 1996, RGC, HK\$ 780,000, “High-Valent Alkylidene and Alkylidyne Complexes of Ruthenium and Osmium. Electron Transfer Properties and Catalysts for Carbon-Carbon Bond Formation”**
- 1995, RGC, HK\$ 564,000, “Inorganic and Organometallic Photochemistry. Luminescent Homo- and Hetero-nuclear metal Complexes”**
- 1994, RGC, HK\$ 626,000, “Metal-Nitrogen Multiple Bonding. From High-Valent Metal-Nitrido and Metal Imido Complexes to Catalysts for Alkene Aziridination”**
- *1993, RGC, HK\$ 850,000, “Chiral Ruthenium-Oxo Complexes”**
- 1993, RGC, HK\$ 560,000, “Structural, physical properties, and theoretical studies of Buckminsterfullerene C_{60} and its metal derivatives”, Professor P.C.W. Fung of the Physics Department was a co-principal investigator of this project**
- *1992, RGC, HK\$ 672,000, “Design of Luminescent Inorganic Materials for Studies of Metal-Metal Bonding, Photoredox Reactions and Supramolecular Photochemistry and DNA Recognition”**
- 1991, RGC, HK\$ 270,000, “Metal ion promoted organic reactions. Metal complexes of chiral amine, amide, alkoxide and phosphine ligands for asymmetric organic synthesis”, Professor K.F.Cheng of the Chemistry Department was the principal investigator.**
- *1990, UGC, HK\$ 410,000, “Model Reactions for Nitrogen Fixation. Synthesis and Redox Chemistry of High-Valent Nitrido Complexes of Ruthenium and Osmium”**
- 1988, UGC, HK\$ 550,000, “Homogeneous Oxidative Catalysts”**
- Note: [*] strongly recommended and/or outstanding by the external assessors.

e) Others

- 2011, Department of Health (HKSAR), HK\$ 9,000,000, “Hong Kong Chinese Materia Medica Standards”**
- 2009, Department of Health (HKSAR), HK\$ 3,400,000, “Hong Kong Chinese Materia Medica Standards”**
- 2008, Natural Science Foundation of China (NSFC)/Hong Kong RGC Joint Research Scheme, HK\$ 690,200, “Self-assemble metal coordination polymers and Supramolecular systems containing π -conjugated organic ligands”**
- 2005, Germany/Hong Kong Joint Research Scheme, “Photoluminescent Properties and Applications of Luminescent d^8 and d^{10} Metal Complexes with Metal-Metal Interactions”**
- 2005, National Natural Science Foundation of China (NSFC)/Hong Kong RGC Joint Research Scheme, HK\$ 794,218, “Functionalized Phosphorescent Metal-Organic Materials for Biomedical, Photocatalytic and Organic Optoelectronic Applications”**

K) Outside Donation for Research

During the period of 2003 – 2004, I have obtained the following outside donations:

- (1) A private donation of HK\$2 million for the development of anticancer inorganic medicines.
- (2) A corporate donation of HK\$0.5 million by Coled Display Ltd for the purchase of small pieces of equipment for the clean room.
- (3) A corporate donation of HK\$160,000 by e-Ray Optoelectronic Co. Ltd for the development of materials.

L) Patents

List of Patents (OLED)

1. "Organometallic Light-emitting Material" US 7,026,480 B2; Japanese Patent Application No. 2002-111334; Chinese Patent No. ZL02118533.6; Taiwanese Patent Application No. 091104372; Hong Kong Stand Patent Application No. 03101825.6.
2. "Electroluminescent Material" US 6,653,654 B1; European Patent Application No. 03714623; Chinese Patent Application No. 03809922.5; Japanese Patent Application No. 2004-501422; Taiwanese Patent Application No. 092106163
3. "Electroluminescent Metallo-Supramolecules with Terpyridine-based Group" U. S. Non-Provisional Application No. 10/290,120; European Application No. 03757649.3; Japanese Patent Application No. 2004-549023; China Patent Application No. 200380108386.8; Taiwanese Patent Application NO. 092130324.
4. "Material for Electroluminescent Devices" US 7,157,155; PCT PCT/CN2004/001524; Chinese Patent Application No. 200480040162.2; Taiwan Patent NO. 335191.
5. "System and Method for Producing Light with Organic Light-Emitting Device" U. S. Non-Provisional Patent Application No. 10/852,231.
6. "Organic Light-Emitting Devices" U. S. Non-Provisional Patent Application No. 10/835,481.
7. "Tetrameric Zinc(II) Complexes Bridged By μ -Oxo" Non-Provisional Patent Application No. 60/861,742.
8. "Organic Light Emitting Devices" U. S. Non-Provisional Patent Application No. 11/713,755.
9. "Extended PI-Conjugated Platinum(II) Complexes" U. S. Non-Provisional Patent Application No. 60/944,423.

List of Patents (Inorganic Drug)

1. "Methods for Using Gold(III) Complexes as Anti-Tumour and Anti-HIV Agents" US2004/006381 A1; PCT/CN03/00780.

List of Patents (Sensory Materials)

1. Luminescent Sensory Material for Organic-Halogen Compounds and Methods and Apparatus Utilizing Such, US Patent no. 6,998,271.

List of Patents (Catalysis)

1. "Method for Conversion of Terminal Alkenes to Aldehydes Using Ruthenium (IV) Porphyrin Catalysts", US Regular Patent No. 7,582,750.
2. "Diastereoselective Epoxidation of Allylically Substituted Alkenes Using Metalloporphyrin Catalysts", US Patent No. 7,482,478.
3. "Supported Ruthenium Nanoparticles as Catalysts for Cis-Dihydroxylation and Oxidative Cleavage of Alkenes", US Patent No. 7,393,985; PCT Patent Application No. PCT/CN2005/000540.

M) Journal Cover Pictures

Front Cover

1. *Chemistry - A European Journal*, 2001, **7**, Issue 11.
2. *Chemistry - A European Journal*, 2003, **9**, Issue 24.
3. *Chemistry - A European Journal*, 2005, **11**, Issue 6.
4. *Chemistry - A European Journal*, 2006, **12**, Issue 11.
5. *Inorganic Chemistry*, 2005, **44**, Issue 11.
6. *Chemical Communications*, 2006, Issue 38.
7. *Angewandte Chemie International Edition*, 2006, **45**, Issue 34.

8. *Chemistry –An Asian Journal*, 2007, **2**, Issue 9.
9. *Chemistry - An Asian Journal*, 2008, **3**, Issue 1.
10. *Journal of the American Chemical Society*, 2009, **131**, Issue 5.
11. *Chemistry- A European Journal*, 2009, **15**, Issue 15.
12. *Dalton Transactions*, 2009, No. 48,
13. *Chemical Communications* 2010, **46**, Issue 2.
14. *Chemistry – A European Journal* 2010, **16**, Issue 10
15. *Chemical Society Reviews* 2011, Issue 4

Inside Cover

1. *Chemical Communications*, 2005, Issue 28.
2. *Chemistry - A European Journal*, 2005, **11**, Issue 13.
3. *Angewandte Chemie International Edition*, 2006, **45**, Issue 17.
4. *Chemistry - A European Journal*, 2007, **13**, Issue 2.
5. *Angewandte Chemie International Edition*, 2008, **47**, Issue 50
6. *Chemistry - A European Journal*, 2009, **15**, Issue 41.
7. *Chemical Communications*, 2010, Issue 41.
8. *Chemical Science* 2011, Issue 2
9. *Chemical Communications*, 2011, Issue 33.
10. *Angewandte Chemie International Edition*, 2012, **51**, Issue 11

N) Selected Works Highlighted by Others or Featured by Journal Editors

1. The early works on photoluminescent Au(I) compounds are cited in the Highlight article by L. H. Gade published in *Angew. Chem. Int. Ed.*, 1997, **36**, 1171-1173.
2. “Isolation and X-Ray Crystal Structure of an Unusual biscarbene Metal Complex and Its Reactivity Toward Cyclopropanation and Allylic C-H Insertion of Unfunctionalized Alkenes” (Y. Li, J.-S. Huang, Z.-Y. Zhou, C.-M. Che, *J. Am. Chem. Soc.*, 2001, **123**, 4843-4844) is highlighted by *CHEMTRACTS-Inorganic Chemistry*, 2002, **15**, 37-41.
3. The work on using “PhI(OAc)₂ + NH₂R” for metal-catalyzed nitrogen atom transfer reactions is considered as a breakthrough by P. Dauban and R. H. Dodd in their review article entitled “Iminoiodanes and C–N Bond Formation in Organic Synthesis” in *Synlett*, 2003, 1571.
4. The works on reactive metal-imido complexes for C-H aminations are highlighted in the Highlight article “Recent Advances in Catalytic Intramolecular C-H Aminations” by H. M. L. Davies and M. S. Long published in *Angewandte Chemie International Edition*, 2005, **44**, 3518-3520.
5. “A Practical and Mild Method for Highly Selective Conversion of Terminal Alkenes to Aldehydes via a Subsequent Epoxidation/Isomerization Route Using Ruthenium(IV) Porphyrin Catalysts” (J. Chen, C.-M. Che, *Angew. Chem., Int. Ed.*, 2004, **43**, 4950–4954) is highlighted under “News and Views in Organic Chemistry” in *Letters in Organic Chemistry*, 2005, **2**, 290-292.
6. “Metal complexes of chiral binaphthyl Schiff-base ligands and their application in stereoselective organic transformations” (C.-M. Che, J.-S. Huang, *Coord. Chem. Rev.*, 2003, **242**, 97-113) was recognized in the "Top-50 most cited articles" as published in *Coordination Chemistry Reviews* (2003-2006).
7. “Gold(III) Porphyrin-Catalyzed Cycloisomerization of Allenones” (C.-Y. Zhou, P. W. H. Chan, C.-M. Che, *Org. Lett.*, 2006, **8**, 325-328) is featured on the ACS Publications website as a 2006 Most-Cited Article based on citation data obtained from Thomson ISI.
8. “Gold(III) Porphyrin-Catalyzed Cycloisomerization of Allenones” (C.-Y. Zhou, P. W. H. Chan, C.-M. Che, *Org. Lett.*, 2006, **8**, 325-328) was featured on *Nature China* on March 21, 2007 (doi:10.1038/nchina.2007.24) (in “Latest weekly Research Highlights-Chemistry”).
9. “Phosphine Gold(I)-Catalyzed Hydroamination of Alkenes under Thermal and Microwave-Assisted Conditions” (X.-Y. Liu, C.-H. Li, C.-M. Che, *Org. Lett.*, 2006, **8**, 2707-2710) is featured on the ACS Publications website as one of “Organic Letters' Hot Papers” based on citation data obtained from Thomson ISI.

10. "Highly Efficient Au(I)-Catalyzed Intramolecular Addition of β -Ketoamide to Unactivated Alkenes" (C.-Y. Zhou, C.-M. Che, *J. Am. Chem. Soc.*, 2007, **129**, 5828-5829) is highlighted on the websites "<http://www.organic-chemistry.org/Highlights/2008/28April.shtm>" and in SYNFACTS 2007, 686.
11. "Synthesis of Substituted 1,2-Dihydroquinolines and Quinolines from Aromatic Amines and Alkynes by Gold(I)-Catalyzed Tandem Hydroamination-Hydroarylation under Microwave-Assisted Conditions" (X.-Y. Liu, P. Ding, J.-S. Huang, C.-M. Che, *Org. Lett.*, 2007, **9**, 2645-2648) is highlighted on the website <http://www.organic-chemistry.org/Highlights/2007/15August.shtm>
12. "A submicrometer wire-to-wheel metamorphism of hybrid tridentate cyclometalated platinum(II) complexes" (Wei Lu, Stephen S.-Y. Chui, Kun-Ming Ng, Chi-Ming Che, *Angew. Chem., Int. Ed.*) is highlighted in Nature China 18 June 2008 and on the website <http://www.nature.com/nchina/2008/080618/full/nchina.2008.137.html>.
13. "Metal-Insulator-Metal Transistor" (P. Stallinga, V. A. L. Roy, Z. Xu, H. Xiang, C.-M. Che, *Advanced Materials* 2008, **20**, 2120-2124) is highlighted in NPG Asia Materials 2008 as Electronic: Golden Transistors.
14. "Polymer-Supported Ruthenium Catalyst for Carbenoid Transfer Reactions" (M. K.-W. Choi, W.-Y. Yu, M.-H. So, C.-Y. Zhou, Q.-H. Deng, C.-M. Che, *Chemistry-An Asian Journal* 2008, **3**, 1256-1265) is selected by the Editorial Board of SYNFACTS and published in SYNFACTS issue 01/09.
15. "Gold(III) Salen Complex-Catalyzed Synthesis of Propargylamines via a Three-Component Coupling Reaction" (V. K.-Y. Lo, Y. Liu, M.-K. Wong, C.-M. Che, *Org. Lett.*, 2006, **8**, 1529-1532) is highlighted by Organic Chemistry Portal (Prof. Douglass F. Taber) for stereoselective C-N ring construction in 17 Nov 2008 (<http://www.organic-chemistry.org/Highlights/2008/17November.shtm>)
16. "Highly Selective Metal Catalysts for Intermolecular Carbenoid Insertion into Primary C-H Bonds and Enantioselective C-C Bond Formation" (H.-Y. Thu, G. S.-M. Tong, J.-S. Huang, S. L.-F. Chan, Q.-H. Deng, C.-M. Che, *Angew. Chem., Int. Ed.* 2008, **47**, 9747) is selected by the Editorial Board of SYNFACTS and published in SYNFACTS issue 02/09.
17. "Pt(II)-Catalyzed Synthesis of Indolines and Tetrahydroquinolines" (X.-Y. Liu, C.-M. Che, *Angew. Chem., Int. Ed.* 2009, **48**, 2361) is selected by the Editorial Board of SYNFACTS and published in SYNFACTS issue 06/09.
18. "Synthesis of Substituted 1,2-Dihydroquinolines and Quinolines from Aromatic Amines and Alkynes by Gold(I)-Catalyzed Tandem Hydroamination-Hydroarylation under Microwave-Assisted Conditions" (X.-Y. Liu, P. Ding, J.-S. Huang, C.-M. Che, *Org. Lett.* 2007, **9**, 2645-2648) is selected on the ACS Publications website in 2009 as Top 20 most-cited articles published in the last three years.
19. "Silver(I)-Mediated Highly Enantioselective Synthesis of Axially Chiral Allenes" (V. K.-Y. Lo, C.-Y. Zhou, M.-K. Wong, C.-M. Che, *Chemical Communications* 2010, **46**, 213-215) has been selected by Royal Society of Chemistry as RSC Prospect (8 Oct 2009).
20. "Platinum(II) Complexes with Dipyridopenazine Ligands as Human Telomerase Inhibitors and Luminescent Probes for G-Quadruplex DNA" (D.-L. Ma, C.-M. Che, S.-C. Yan, *Journal of the American Chemical Society* 2009, **131**, 1835-1846) has been advertised by ACS Publications in C&EN Aug 3, 2009.
21. "Synthesis of Chiral Secondary Amines by Gold(I)-Chiral Bronsted Acid Catalysis" (X.-Y. Liu, C.-M. Che, *Org. Lett.* 2009, **11**, 4204-4207) is selected by the Editorial Board of SYNFACTS and published in SYNFACTS issue 12/09.
22. "Highly Efficient Oxidative Carbon-Carbon Coupling with SBA-15-Supported Iron Terpyridine Catalyst" (P. Liu, Z.-Y. Zhou, S. Xiang, C.-M. Che, *Chem. Commun.* 2010, **46**, 2739-2741) is selected by the Editorial Board of SYNFACTS and published in SYNFACTS issue 7/10.
23. "Luminescent platinum(II) complexes. Electronic spectroscopy of platinum(II) complexes of 2,2':6',2''-terpyridine (terpy) and p-substituted phenylterpyridines and crystal structure of [Pt(terpy)Cl][CF₃SO₃]" (H.-K. Yip, L.-K.-Cheng, K.-K. Cheung, C.-M. Che, *Chem. Commun.* 1993, 2933-2938) was recognized "The 30th most cited article" in Dalton Transactions.

24. A research article on *Imaging Mass Spectrometry Analysis of Banknote* has been published in *Analytical Chemistry* ["Molecular Imaging of Banknote and Questioned Document Using Solvent-Free Gold Nanoparticle-Assisted Laser Desorption/ Ionization Imaging Mass Spectrometry", H.-W. Tang, M. Y.-M. Wong, S. L.-F. Chan, C.-M. Che and K.-M. Ng, *Analytical Chemistry* **2011**, *83*, 453-458]. This research work has been highlighted in *Chemical and Engineering News* as Latest News (<http://pubs.acs.org/cen/news/88/i50/8850news4.html>)
25. "Manganese-Catalyzed Enantioselective *cis*-Dihydroxylation" (T. W.-S. Chow, Y. Liu, C.-M. Che, *Chem. Commun.* 2011, **47**, 11204-11206) is selected by the Editorial Board of SYNFACTS and published in SYNFACTS issue 12/11.

O) Publications

Summary:

- **Over 21,575 citations excluding self-citations (up to March 2012).**
- Journal of the American Chemical Society (52)
- Angewandte Chemie-International Edition (31)
- Chemical Communications + Journal of the Chemical Society-Chemical Communications (118)
- Chemistry-A European Journal (48)
- Chemical Science (9)
- Dalton Transactions + Journal of the Chemical Society-Dalton Transactions (113)
- Inorganic Chemistry (77)
- Organometallics (19)
- Chemistry An Asian Journal (23)
- Organic Letters (26)
- Journal of Organic Chemistry (14)
- Advanced Materials (8)
- Applied Physics Letters (12)
- Coordination Chemistry Reviews (9)
- Accounts of Chemistry Research(1)
- Proteomics (6)
- Cancer Research (3)
- International Journal of Cancer (2)
- British Journal of Cancer (1)
- Cancer (1)

Year 1979

1. Metal Template Synthesis of Aqua{2,12-Dimethyl-3,7,11,17-tetra-aza-bicyclo [11.3.1]-heptadeca-1(17),2,11,13,15-pentaene} ruthenium(II) Perchlorate.
C.K. Poon and C.M. Che
Journal of Chemical Society, Chemical Communications, 1979, 861–62.

Year 1980

2. Structural and Mechanistic Studies of Co-ordination Compounds. Part 24. Application of Cyclic Voltammetry to Study the Chelation Effect on Acid Hydrolysis of Some *cis*- and *trans*-Ruthenium(II) Amine Complexes.
C.K. Poon, C.M. Che and Y.P. Kan
Journal of Chemical Society, Dalton Transaction, 1980, 128–33.
3. Structural and Mechanistic Studies of Co-ordination Compounds. Part 25. Synthesis and Characterization of Some Octahedral Halogeno amine and -thioether Complexes of Ruthenium-(II) and -(III).
C.K. Poon and C.M. Che
Journal of Chemical Society, Dalton Transaction, 1980, 756–62.

Year 1981

4. Structural and Mechanistic Studies of Co-ordination Compounds. Part 26. Synthesis and Characterization of Some Octahedral Complexes of Ruthenium-(II) and -(III) with Macrocyclic Quadridentate Thioethers.
C.K. Poon and C.M. Che
Journal of Chemical Society, Dalton Transaction, 1981, 495–500.
5. Structural and Mechanistic Studies of Co-ordination Compounds. Part 28. Some Octahedral Ruthenium Complexes of 5,5,7,12,12,14-Hexamethyl-1,4,8,11 -tetra- azacyclotetradeca-1,3,8,10-tetraene produced by Oxidative Dehydrogenation Reactions.
C.K. Poon and C.M. Che
Journal of Chemical Society, Dalton Transaction, 1981, 1019–1023.
6. Structural and Mechanistic Studies of Co-ordination Compounds. Part 29. Synthesis and Characterization of Some cis-Macrocyclic Secondary Amine Complexes of Ruthenium.
C.K. Poon and C.M. Che
Journal of Chemical Society, Dalton Transaction, 1981, 1336–41.
7. Structural and Mechanistic Studies of Co-ordination Compounds. Part 30. Synthesis and Characterization of Some Octahedral Halogenoamine Complexes of Osmium(III).
C.K. Poon, C.M. Che and T.W. Tang
Journal of Chemical Society, Dalton Transaction, 1981, 1697–1700.
8. Structural and Mechanistic Studies of Co-ordination Compounds. 27. Synthesis and Characterization of Some Trans Ruthenium(III) Complexes with Four Different Saturated Macrocyclic Quadridentate Secondary Amines
C.K. Poon and C.M. Che
Inorganic Chemistry, 1981, **20**, 1640–43.
9. Spectroscopic Properties and Redox Chemistry of the Phosphorescent Excited State of $\text{Pt}_2(\text{P}_2\text{O}_5)_4\text{Hg}^{4-}$.
C.M. Che, L.G. Butler and H.B. Gray
Journal of the American Chemical Society, 1981, **103**, 7796–97.

Year 1982

10. Structural and Mechanistic Studies of Co-ordination Compounds. Part 32. Different Photochemical Pathways of Some trans-Dihalogenobis(ethylenediamine)-ruthenium (III) Cations: Ligand-field versus Ligand-to-metal Charge-transfer Excited States.
C.K. Poon, T.C. Lau and C.M. Che
Journal of Chemical Society, Dalton Transaction, 1982, 532–34.
11. Structural and Mechanistic Studies of Co-ordination Compounds. Part 34. Electrochemical Behaviour of Some Octahedral Ruthenium(III)/Ruthenium(II) Couples containing Tetra-amine or -thioether Ligands.
C.K. Poon, S.S. Kwong, C.M. Che and Y.P. Kan
Journal of Chemical Society, Dalton Transaction, 1982, 1457–63.
12. Novel Binuclear Platinum(III) Diphosphite Complexes.
C.M. Che, W.P. Schaefer, H.B. Gray, M.K. Dickson, P.B. Stein and D.M. Roundhill
Journal of the American Chemical Society, 1982, **104**, 4253–55.
13. Oxidation-Reduction Photochemistry of Metal Complexes in Solution.
A.W. Maverick, C.M. Che, D.G. Nocera, J.R. Winkler and H.B. Gray
Plenary Lecture of the 4th International Conference on Photochemical. Conversion and Storage of Solar Energy, Israel, 1982, 1–13.

Year 1983

14. Binuclear Platinum Diphosphite Complexes. Crystal Structures of $\text{K}_4[\text{Pt}_2(\text{pop})_4\text{Br}]\cdot 3\text{H}_2\text{O}$, a New Linear Chain Semiconductor and $\text{K}_4[\text{Pt}_2(\text{pop})_4\text{Cl}_2]\cdot 2\text{H}_2\text{O}$.
C.M. Che, F.H. Herbstein, W.P. Schaefer, R.E. Marh and H.B. Gray
Journal of the American Chemical Society, 1983, **105**, 4604–07.

15. Kinetic of Long-Distance Ruthenium-to-Copper Electron Transfer in [Pentaamine-ruthenium histidine-83]azurin
N.M. Kostic, R. Margalit, C.M. Che and H.B. Gray
Journal of the American Chemical Society, 1983, **105**, 7765–67.
16. Metal-Metal Interactions in Binuclear Platinum(II) Diphosphite Complexes. Resonance Raman Spectra of the $^1A_{1g}(d\sigma^*)^2$ and $^3A_{2u}(d\sigma^* p\sigma)$ Electronic States of $Pt_2(P_2O_5H_2)_4^{4-}$.
C.M. Che, L.G. Butler, H.B. Gray, R.M. Crooks and W.H. Woodruff
Journal of the American Chemical Society, 1983, **105**, 5492–94.
17. Oxidation-Reduction Photochemistry of Polynuclear Complexes in Solution.
D.G. Nocera, A.W. Maverick, J.R. Winkler, C.M. Che and H.B. Gray
American Chemical Society Symposium, Series No. 211, 1983, 21–33.
18. Structural and Mechanistic Studies of Coordination Compounds. 36. Electronic Spectra and Photochemistry of Some trans- (tetraamine)ruthenium(III) complexes.
C.K. Poon, T.C. Lau and C.M. Che
Inorganic Chemistry, 1983, **22**, 3893–98.
19. Structural and Mechanistic Studies of Co-ordination Compounds. Part 38. Syntheses and characterization of Several Quadridentate Macrocyclic Amine Complexes of Iridium(III).
C.K. Poon, T.W. Tang and C.M. Che
Journal of Chemical Society, Dalton Transaction, 1983, 1647–51.

Year 1984

20. Binuclear Complexes of Palladium(II) Containing 1,8- Diisocyano-p-methane.
C.M. Che, F.H. Herbstein, W.P. Schaefer, R.E. Marsh and H.B. Gray
Inorganic Chemistry, 1984, **23**, 2572–75.
21. A Dimeric Platinum(III) System Containing a Long Metal-Metal Bond. Crystal Structure of $K_4[Pt_2(P_2H_2)_4CH_3I] \cdot 2H_2O$.
C.M. Che, T.C.W. Mak and H.B. Gray
Inorganic Chemistry, 1984, **23**, 4386–88.
22. Generation of Binuclear ($d^8 \cdot d^8$)_p Platinum and Rhodium Complexes by Pulse Radiolysis.
C.M. Che, S. J. Atherton, L.G. Butler and H.B. Gray
Journal of the American Chemical Society, 1984, **106**, 5143–45.
23. Photoinduced Electron Transfer between Cytochrome C and Ruthenium/Osmium Bipyridine and Phenanthroline Complexes.
K.C. Cho, C.M. Che, F.C. Cheng and C.L. Choy
Journal of the American Chemical Society, 1984, **106**, 6843–44.
24. Preparation and characterization of Pentaamine -ruthenium-(histidine-83)azurin: Thermodynamics of intramolecular electron transfer from ruthenium to copper.
R. Margalit, N.M. Kostic, C.M. Che, D.F. Blari, H.J. Chiang, I. Pecht, J.B. Shelton, J.R. Shelton, W.A. Shroeder and H.B. Gray
Proc. Natl. Aca. Sci. USA, 1984, **81**, 6554–58.
25. Proton NMR Study of Structural Perturbation in Sperm Whale Myoglobin due to Pentaamineruthenium(III) Groups Appended to Surface Histidyl Imidazoles.
H. Toi, G.N. La Mar, Ruth Margalit, C.M. Che and H.B. Gray
Journal of the American Chemical Society, 1984, **106**, 6213–17.
26. Synthesis and Characterization of a Ruthenyl($Ru^{IV}=O$) Complex with a Saturated Macrocyclic Tetramine.
C.M. Che, T.W. Tang and C.K. Poon
Journal of Chemical Society, Chemical Communication, 1984, 641–42.

Year 1985

27. Cis Ruthenium Complexes of 1,4,8,11-Tetraaza-cyclotetradecane(cyclam): Crystal and Molecular Structure of *cis*-[Ru(cyclam)Cl₂]Cl.
C.M. Che, S.S. Kwong, C.K. Poon, T.F. Lai and T.C.W. Mak

- Inorganic Chemistry*, 1985, **24**, 1359–63.
28. Characterization of a High-Valent Ruthenyl ($\text{Ru}^{\text{IV}}=\text{O}$) Cation Stabilized by the Macrocyclic 1,4,8,11-Tetramethyl-1,4,8,11-tetraazacyclotetradecane (tmc) Ligand: Crystal and Molecular Structure of $\text{trans}[\text{Ru}^{\text{IV}}(\text{tmc})\text{O}(\text{MeCN})][\text{PF}_6]_2$.
C.M. Che, K.Y. Wong and T.C.W. Mak
Journal of Chemical Society, Chemical Communication, 1985, 546–548.
 29. Chemistry and Spectroscopy of Binuclear Platinum Diphosphite Complexes.
C.M. Che, L.G. Butler, P.J. Grunthaler and H.B. Gray
Inorganic Chemistry, 1985, **24**, 4662–4665.
 30. Convenient Synthesis of trans -Diacidotetraamine-ruthenium(III) Complexes.
C.M. Che, M. Jamal, C.K. Poon and W.C. Chung
Inorganic Chemistry, 1985, **24**, 2869–2869.
 31. Electrogenerated Chemiluminescence on the Electro-generated Chemiluminescence (ECL) of Tetrakis-(pyrophosphito)-Diplatinate(II), $\text{Pt}_2(\text{P}_2\text{O}_5\text{H}_2)_4^{4-}$.
J. Kim, F.F. Fan, A.J. Bard, C.M. Che and H.B. Gray
Chemical Physics Letters, 1985, **121**(6), 543–546.
 32. High-valent Dioxo-ruthenium(VI) Complexes of Macrocyclic Tetradenate Tertiary Amines: X-Ray Crystal Structures of $\text{trans}[\text{Ru}^{\text{VI}}(15\text{-tmc})\text{O}_2](\text{ClO}_4)_2$ (15-tmc = 1,4,8,12-tetraazacyclopentadecane) and $\text{trans}[\text{Ru}^{\text{VI}}(16\text{-tmc})\text{O}_2](\text{ClO}_4)_2$ (16-tmc = 1,5,9,13-tetramethyl-1,5,9,13-tetraazacyclohexadecane).
T.C.W. Mak, C.M. Che and K.Y. Wong
Journal of Chemical Society, Chemical Communication, 1985, 986–88.
 33. A High-Valent Ruthenium(VI) Dioxo Cation of 1,4,8,11-Tetramethyl-1,4,8,11-tetraazacycloetradecane.
C.M. Che, K.Y. Wong and C.K. Poon
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 34. Oxo-Ruthenium(V) Complexes of Macrocyclic Tetradenate Tertiary Amines that Function as Active Electrochemical Oxidative Catalysts, and X-Ray Crystal Structure of $\text{trans}[\text{Ru}^{\text{IV}}(\text{tmc})\text{O}(\text{Cl})]\text{ClO}_4$ (tmc = 1,4,8,11-tetramethyl-1,4,8,11-tetra-azacyclo-tetra-decane).
C.M. Che, K.Y. Wong and T.C.W. Mak
Journal of Chemical Society, Chemical Communication, 1985, 988–90.
 35. Ruthenium(III) Tertiary Amine Complexes.
C.M. Che, S.S. Kwong and C.K. Poon
Inorganic Chemistry, 1985, **24**, 1601–02.
 36. Synthesis and Characterization of Osmium Porphyrins.
C.M. Che, C.K. Poon, W.C. Chung and H.B. Gray
Inorganic Chemistry, 1985, **24**, 1277–78.

Year 1986

37. Axial-Ligand and Metal-Metal Trans Influences in Binuclear Platinum(III) Complexes. Crystal Structures and Spectroscopic Properties of $\text{K}_4[\text{Pt}_2(\text{P}_2\text{O}_5\text{H}_2)_4(\text{SCN})_2]\cdot 2\text{H}_2\text{O}$, $\text{K}_4[\text{Pt}_2(\text{P}_2\text{O}_5\text{H}_2)_4(\text{NO}_2)_2]\cdot 2\text{KNO}_2\cdot 2\text{H}_2\text{O}$, and $\text{K}_4[\text{Pt}_2(\text{P}_2\text{O}_5\text{H}_2)_4(\text{C}_3\text{H}_3\text{N}_2)]\cdot 7\text{H}_2\text{O}$
C.M. Che, W.M. Lee, T.C.W. Mak and H.B. Gray
Journal of the American Chemical Society, 1986, **108**, 4446–4451.
38. Binuclear Platinum(II) Photochemistry. Nucleophile-Induced Reduction of electron Acceptor or by Electronically Excited $\text{Pt}_2(\text{P}_2\text{O}_5\text{H}_2)_4^{4-}$.
C.M. Che, K.C. Cho, W.S. Chan and H.B. Gray
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39. Binuclear Platinum(III) Complexes. Preparation, Structure, $d\sigma-d\sigma^*$ Spectrum of $[\text{Bu}_4\text{N}]_2[\text{Pt}_2(\text{P}_2\text{O}_5\text{H}_2)_4(\text{CH}_3\text{CN})_2]$.

- C.M. Che, T.C.W. Mak, V.M. Miskowski and H.B. Gray
Journal of the American Chemical Society, 1986, **108**, 7840–41.
40. Catalysed Epoxidation and Hydroxylation of Alkene by Osmium(III)-Porphyrin Complexes.
C.M. Che and W.C. Chung
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 41. Electron Transfer Between Cytochrome c and Metallo- porphyrin at High Exothermicities.
K.C. Cho, K.M. Ng, C.L. Choy and C.M. Che
Chemical Physics Letters, 1986, **129**(5), 521–25.
 42. Electron Transfer between Cytochrome c and Porphyrins.
K.C. Cho, C.M. Che, K.M. Ng and C.L. Choy
Journal of the American Chemical Society, 1986, **108**, 2814–18.
 43. A High-Valent Dioxoruthenium(VI) Complex of 2,2'- Bipyridine (bpy) - Preparation and Characterization of $trans-[Ru^{VI}(bpy)_2O_2]^{2+}$.
C.M. Che, K.Y. Wong, W.H. Leung and C.K. Poon
Inorganic Chemistry, 1986, **25**, 345–48.
 44. High-Valent Oxo Complexes of Osmium as Selective Oxidants for Cyclohexene Oxidation. Complexation of Bisamide Tetradentate Ligand bpb to Osmium and the X-Ray structure of $trans-[Os^{III}(bpb)(PPh_3)Cl][bpbH_2 = N,N'$ -Bis(2'-pyridine-carboxamide)-1,2-benzene].
C.M. Che, W.K. Cheng and T.C.W. Mak
Journal of Chemical Society, Chemical Communication, 1986, 200–02.
 45. High-Valent Schiff-Base Complexes of Osmium. X-Ray Crystal Structure of $trans-[Os^{IV}(salen)(SPh)_2]$.
C.M. Che, W.K. Cheng and T.C.W. Mak
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 46. A Macrocyclic Tetradentate Ligand Containing Tertiary Amine and Pyridine Functional Groups. Electrochemical and X-Ray Structural Studies on $[Co^{II}(CR-Me_3)Cl]ClO_4$ (CR-Me₃ = meso-2,3,7,11,12-Pentamethyl-3,7,11,17- tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene).
C.M. Che, S.T. Mak and T.C.W. Mak
Inorganic Chemistry, 1986, **25**, 4705–08.
 47. Manganese(III) Amide Complexes as a New Class of Catalyst for Efficient Alkene Epoxidation.
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