Kimoon Kim

Distinguished University Professor, Emeritus
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Biographical Sketch

Kimoon Kim studied chemistry at Seoul National University (BS, 1976), KAIST (MS, 1978), and Stanford University (PhD, 1986). After two years of postdoctoral work at Northwestern University he started his own academic career in 1988 at the Department of Chemistry, Pohang University of Science and Technology (POSTECH). After 36 years' tenure at POSTECH, including a term as Distinguished University Professor from 2009 to 2024, he became Distinguished University Professor Emeritus in August, 2024. From 2012 to 2022, he also served as the Director of the Center for Self-assembly and Complexity (CSC), Institute for Basic Science (IBS). He has published over 360 papers which have been cited more than 41,500 times (H-index, 101). His research focuses on the development of novel functional materials and devices based on supramolecular chemistry. In particular, his group has worked on a wide variety of functional materials based on cucurbiturils, a family of pumpkin-shaped macrocyclic molecules, organic or metal-organic porous materials, and self-assembled nanostructured polymer materials. Recently, his group has also pioneered the spatiotemporal control of chemical reactions using audible sound. His work has been recognized by a number of awards including the Korea Science Prize, (2001), TWAS award in Chemistry (2001) by Third World Academy of Science (TWAS), Hoam prize (2006) by Hoam (Samsung) Foundation, Best Scientist and Engineer Award (2008) by the Korean government, and Izatt-Christensen Award (2012). He has been an advisory editorial board member of many scientific Journals including Angewandte Chemie, Chemistry: an Asian Journal, and Account of Chemical Research. He also served as chairman of the Inorganic Chemistry Division (2009) and a vice-president (2010) of the Korean Chemical Society and has been a member of the Korean Academy of Science and Technology since 2000.

Education

1981–1986	Ph.D., Chemistry, Stanford University
1976–1978	M.S., Chemistry, KAIST
1972–1976	B.S., Chemistry, Seoul National University

Appointments/Affiliations

2024–present	Distinguished University Professor, Emeritus
2012–2022	Director, Center for Self-assembly and Complexity (CSC), Institute for Basic Science (IBS)
2010	Vice-president, Korean Chemical Society (KCS)
2009	Chairman, Division of Inorganic Chemistry, KCS
2009–2012	Head, Division of Advance Materials Science (WCU Project)
2009–2024	Distinguished University Professor (POSTECH Fellow)

2007–2009 Chong Yeol Hong Chair Professor
2004–2005 Visiting scholar, Harvard University
1997–2012 Director, Center for Smart Supramolecules
1997–2007 Professor, POSTECH
1995–1995 Visiting scholar, Massachusetts Institute of Technology
1992–1997 Associate Professor, POSTECH
1988–1992 Assistant Professor, POSTECH
1986–1988 Research Fellow, Northwestern University
1978–1981 Instructor, Chonnam National University, Gwangju

Awards and Honors

2023 IOCF Zen-Ichi Yoshida Lectureship, IOCF, Kyoto, Japan
2022 Mendel Lectureship, Brno, Czech Republic
2014 Knowledge Creation Award in 2014, Ministry of Science, ICT and Future Planning
2012 Honorary Professor, Siberian Branch of the Russian Academy of Sciences
2012 Izatt-Christensen Award
2011 E. Muetterties Memorial Lectureship Award, University of California, Berkeley
2009 POSTECH Fellow, elected
2009 Proud Postechian Award, POSTECH
2008 Best Scientist and Engineer Award, Korean Government
2007 Prime Minister Prize, Science Innovation Section, NANO KOREA Awards
2007 Named as an Outstanding Scientist in 2008, Ministry of Science and Technology
2006 Named as a Role Model Scientist, Ministry of Science and Technology
2006 Hoam prize, Hoam Foundation (Samsung)
2005 Visiting Professorship, University of Strasbourg
2002 TWAS Award, Third World Academy of Sciences
2002 Korea Science Prize, Korean Government
2001 Doyak Medal, the Order of Science & Technology Merit, Korean Government
2000 Korean Academy of Science and Technology, member elected
2000 Scientist of the Month, Korea Science and Engineering Foundation
1999 Distinguished Research Award, Korean Chemical Society (KCS)
1998 Outstanding Research Award, Division of Inorganic Chemistry, KCS
1997 Best Paper Award, Korean Federation of Science and Technology Societies
1995 Yonam Fellowship, Yonam Foundation

Memberships

2019–present *Natural Sciences* International Advisory Board member
2019–present *Trends in Chemistry* Advisory Board member
2016–2021 *Accounts of Chemical Research* Editorial Advisory Board member
2008–2015 *Angewandte Chemie*, International Advisory Board member
2006–2022 *Nano*, Editorial Board member
2006–2012 *ChemComm*, Editorial Advisory Board member
2006–present *Chemistry-An Asian Journal*, Editorial Advisory Board member
2006–2009 *CrystEngComm*, Editorial Advisory Board member
2002–present *Supramolecular Chemistry*, Editorial Advisory Board member
2002–2009 *Bulletin of the Korean Chemical Society*, Associate Editor
2000–present *Korean Academy of Science and Technology*, member
2000–2004 *Dalton Transactions*, International Advisory Editorial Board member
1998–2004 *Crystal Engineering*, Editorial Advisory Board member
1988–present *Korean Chemical Society*, Member
1983–present *American Chemical Society*, Member

Research Areas
Supramolecular chemistry, materials chemistry, inorganic chemistry and nanochemistry

Publications (as of February 17, 2025)
Total number of publications: 363, Total number of citations > 41,500, H-index: 101

Representative Publications (NC = number of citations)

1. J.-S. Seo, D. Whang, H. Lee, S. I. Jun, J. Oh, Y. J. Jeon, **K. Kim**, "A homochiral metal-organic porous material for enantioselective separation and catalysis", *Nature* **2000**, *404*, 982–986. (NC = 3,731)
2. J. Kim, I.-S. Jung, S.-Y. Kim, E. Lee, J.-K. Kang, S. Sakamoto, K. Yamaguchi, **K. Kim**, "New Cucurbituril Homologues: Syntheses, Isolation, Characterization, and X-ray Crystal Structures of Cucurbit[*n*]uril (*n* = 5, 7, and 8)", *J. Am. Chem. Soc.* **2000**, *122*, 540–541. (NC = 1,602)
3. H.-J. Kim, J. Heo, W. S. Jeon, E. Lee, J. Kim, S. Sakamoto, K. Yamaguchi, **K. Kim**, "Selective Inclusion of a Hetero-Guest Pair in a Molecular Host: Formation of Stable Charge-Transfer Complexes in Cucurbit[8]uril", *Angew. Chem. Int. Ed.* **2001**, *40*, 1526–1529. (NC = 420)
4. J. W. Lee, S. Samal, N. Selvapalam, H.-J. Kim, **K. Kim**, "Cucurbituril Homologues and Derivatives: New Opportunities in Supramolecular Chemistry", *Acc. Chem. Res.* **2003**, *36*, 621–630. (NC = 1,726)
5. S. Y. Jon, N. Selvapalam, D. H. Oh, J.-K. Kang, S.-Y. Kim, Y. J. Jeon, J. W. Lee, **K. Kim**, "Facile Synthesis of Cucurbit[*n*]uril Derivatives via Direct Functionalization: Expanding Utilization of Cucurbit[*n*]uril", *J. Am. Chem. Soc.* **2003**, *125*, 10186–10187. (NC = 375)
6. D. N. Dybtsev, H.Chun, S. H. Yoon, D. Kim, **K. Kim**, "Microporous Manganese Formate: A Simple Metal-Organic Porous Material with High Framework Stability and Highly Selective Gas Sorption Properties", *J. Am. Chem. Soc*. **2004**, 126, 32–33. (NC = 917)
7. W. S. Jeon, E. Kim, Y. H. Ko, I. Hwang, J. W. Lee, S.-Y. Kim, H.-J. Kim, **K. Kim**, "Molecular Loop Lock: A Redox-Driven Molecular Machine Based on a Host-Stabilized Charge-Transfer Complex", *Angew. Chem. Int. Ed.* **2005**, *44*, 87–91. (NC = 191)
8. **K. Kim**, N. Selvapalam, Y. H. Ko, K. M. Park, D. Kim, J. Kim, "Functionalized cucurbiturils and their applications", *Chem. Soc. Rev.* **2007**, *36*, 267–279. (NC = 817)
9. D. Kim, E. Kim, J. Kim, K. M. Park, K. Baek, M. Jung, Y. H. Ko, W. Sung, H. S. Kim, J. H. Suh, C. G. Park, O. S. Na, D.-K. Lee, K. E. Lee, S. S. Han, **K. Kim**, "Direct Synthesis of Polymer Nanocapsules with a Noncovalently Tailorable Surface", *Angew. Chem. Int. Ed.* **2007**, *46*, 3471–3474. (NC = 113)
10. I. Hwang, K. Baek, M. Jung, Y. Kim, K. M. Park, D.-W. Lee, N. Selvapalam, **K. Kim**, "Noncovalent Immobilization of Proteins on a Solid Surface by Cucurbit[7]uril-Ferrocenemethylammonium Pair, a Potential Replacement of Biotin-Avidin Pair", *J. Am. Chem. Soc.* **2007**, *129*, 4170–4171. (NC = 136)
11. M. V. Rekharsky, T. Mori, C. Yang, Y. H. Ko, N. Selvapalam, H. Kim, D. Sobransingh, A. E. Kaifer, S. Liu, L. Isaacs, W. Chen, S. Moghaddam, M. K. Gilson, **K. Kim**, Y. Inoue, "A synthetic host-guest system achieves avidin-biotin affinity by overcoming enthalpy-entropy compensation", *Proc. Natl. Acad. Sci.* **2007**, *104*, 20737–20742. (NC = 498)
12. S. Das, H. Kim, **K. Kim**, "Metathesis in Single Crystal: Complete and Reversible Exchange of Metal Ions Constituting the Frameworks of Metal Organic Frameworks", *J. Am. Chem. Soc.* **2009**, *131*, 3814–3815. (NC = 333)
13. D.-W. Lee, K. M. Park, M. Banerjee, S. H. Ha, T. Lee, K. Suh, S. Paul, H. Jung, J. Kim, N. Selvapalam, S. H. Ryu, **K. Kim**, "Supramolecular fishing for plasma membrane proteins using an ultrastable synthetic host-guest binding pair", *Nat. Chem.* **2011**, *3*, 154–158. (NC = 185)

14. M. Yoon, R. Srirambalaji, **K. Kim**, "Homochiral Metal-Organic Frameworks for Asymmetric Heterogeneous Catalysis", *Chem. Rev.* **2012**, *112*, 1196–1231. (NC = 2,726)
15. J. Lee, K. Bae k, M. Kim, G. Yun, Y. H. Ko, N. S. Lee, I. Hwang, J. Kim, R. Natarajan, C. G. Park, W. Sung, **K. Kim**, "Hollow nanotubular toroidal polymer microrings" *Nat. Chem.* **2014**, 6 , 97–103. (NC = 43)
16. K. Baek, I. Hwang, I. Roy, D. Shetty, **K. Kim,** "Self-Assembly of Nanostructured Materials through Irreversible Covalent Bond Formation", *Acc. Chem. Res*. **2015**, 48, 2221–2229. (NC = 108)
17. D. Shetty, J. K. Khedkar, K. M. Park, **K. Kim**, "Can we beat the biotin-avidin pair?: cucurbit[7]uril-based ultrahigh affinity host-guest complexes and their applications", *Chem. Soc. Rev.* **2015**, *44*, 8747–8761. (NC = 352)
18. Y. Jang, M. Jang, H. Kim, S. J. Lee, E. Jin, J. Y. Koo, I. -C. Hwang, Y. Kim, Y. H. Ko, I. Hwang, J. H. Oh, **K. Kim**, "Point-of-Use Detection of Amphetamine-Type Stimulants with Host-Molecule-Functionalized Organic Transistors", *Chem* **2017**, *3*, 641–651. (NC = 86)
19. K. L. Kim, G. Sung, J. Sim, J. Murray, A. Shrinidhi, K. M. Park, **K. Kim**, "Supramolecular latching system based on ultrastable synthetic binding pairs as versatile tools for protein imaging", *Nat. Commun*. **2018**, *9*, 1012. (NC = 78)
20. R. D. Mukhopadhyay, Y. Kim, J. Koo, **K. Kim**, "Porphyrin Boxes", *Acc. Chem. Res*. **2018**, *51*, 2730–2738. (NC = 126)
21. S. Jhulki, J. Kim, I.-C. Hwang, G. Haider, J. Park, J. Y. Park, Y. Lee, W. Hwang, A. A. Dar, B. Dhara, S. H. Lee, J. Kim, J. Y. Koo, M. H. Jo, C.-C. Hwang, Y. H. Jung, Y. Park, M. Kataria, Y.-F. Chen, S.-H. Jhi, M.-H. Baik, K. Baek, **K. Kim**, "Solution-Processable, Crystalline π-Conjugated Two-Dimensional Polymers with High Charge Carrier Mobility", *Chem* **2020**, *6*, 2035–2045. (NC = 45)
22. I. Hwang, R. D. Mukhopadhyay, P. Dhasaiyan, S. Choi, S. -Y. Kim, Y. H. Ko, K. Baek, **K. Kim**, "Audible sound-controlled spatiotemporal patterns in out-of-equilibrium systems", *Nat. Chem.* **2020**, *12*, 808–813. (NC = 43)
23. J. An, S. Kim, A. Shrinidhi, J. Kim, H. Banna, G. Sung, K. M. Park, **K. Kim**, "Purification of protein therapeutics via high-affinity supramolecular host-guest interactions", *Nat. Biomed. Eng.* **2020**, *4*, 1044–1052. (NC = 39)
24. J. Koo, I. Kim, Y. Kim, D. Cho, I.-C. Hwang, R. D. Mukhopadhyay, H. Song, Y. H. Ko, A. Dhamija, H. Lee, W. Hwang, S. Kim, M.H. Baik, **K. Kim**, "Gigantic Porphyrinic Cages" *Chem* **2020**, *6*, 3374–3384. (NC = 82)
25. A. Dhamija. C. K. Das, Y. H. Ko, Y. Kim, R. D. Mukhopadhyay, A. Gunnam, X. Yu, I.-C. Hwang, L. V, Schafer, **K. Kim**, "Remotely Controllable Supramolecular Rotor Mounted inside a Porphyrinic Cage", *Chem* **2022**, *8*, 543–556. (NC = 22)
26. P. Dhasaiyan, T. Ghosh, H.- G. Lee, Y. Lee, I. Hwang, R. D. Mukhopadhyay, K. M. Park, S. Shin, I. S. Kang, **K. Kim**, "Cascade reaction networks within audible sound induced transient domains in a solution", *Nat. Commun.* **2022**, *13*, 2372. (NC = 9)
27. S. Choi, R. D. Mukhopadhyay, S. K. Sen, I. Hwang, **K. Kim**, "Out-of-equilibrium chemical logic systems: Light and sound controlled programmable spatiotemporal patterns and mechanical functions", *Chem* **2022**, *8*, 2192–2203. (NC = 9)
28. S. K. Sen, R. D. Mukhopadhyay, S. Choi, I. Hwang, **K. Kim**, "Spatiotemporal segregation of chiral supramolecular polymers", *Chem* **2023**, *9*, 624–636. (NC = 14)
29. A. Lee, G. Sung, S. Shin, S.-Y. Lee, J. Sim, T. T. M. Nhung, T. D. Nghi, S. K. Park, P. P. Sathieshkumar, I. Kang, J. Y. Mun, J.-S. Kim, H.-W. Rhee, K. M. Park, **K. Kim**, "OrthoID: Profiling Dynamic Proteomes Through Time and Space Using Mutually Orthogonal Chemical Tools", *Nat. Commun.* **2024**, *15*, 1851. (NC = 2)
30. Y. Lee, M. Choi, I. Park, I.-C. Hwang, Sk. A. Rahaman, H. J. Shin, P. Giri, M.-H. Jo, K. Baek, I. Hwang, J. H. Shim, J. S. Kim, **K. Kim**, "Observation of ultrafast electrons in

pendant-embedded conducting two-dimensional polymers", *Chem* **2024**, *10*, 1160–1174. (NC = 1)

Books

1. K. Kim, J. Murray, N. Selvapalam, Y. H. Ko, I. Hwang, "Cucurbiturils", *World Scientific (Europe)*, **2018**.
2. K. Kim (Ed,) "Cucurbiturils and Related Macrocycles", *Royal Society of Chemistry*, **2019**.

Patents

38 patents have been filed or granted home and abroad

Invited Lectures at International Conferences (2005–present)

2025 Plenary Lecturer, 9th International Conference on Recent Advances in Material Chemistry, Chennai, India
2024 Plenary Lecturer, 18th International Symposium on Macrocyclic and Supramolecular Chemistry, Hangzhou, China
2024 Invited speaker, Bristol Synthesis Meeting, Bristol, UK
2023 Plenary lecturer, Joint Conference on Calixarenes and Cucurbiturils, Tel Aviv, Israel
2022 Keynote Speaker, 44th International Conference on Coordination Chemistry, Rimini, Italy
2020 Keynote Speaker, Winter Enrichment Program (WEP) 2020, KAUST, Thuwal, Saudi Arabia
2019 Keynote Lecturer, 7th Asian Conference on Coordination Chemistry, Kuala Lumpur, Malaysia
2019 Invited Speaker, 6th International Conference on Cucurbiturils, Ohio, U.S.A.
2019 Invited Speaker, International Seoul Symposium on Exotic Porphyrinoids and Related System, Seoul, Korea
2019 Invited Speaker, Sixth Asian Summit Symposium on Supramolecular Chemistry, Nagoya, Japan
2018 Invited Speaker, The 18th Japan-Korea Joint Symposium on Organometallic and Coordination Chemistry, Yokkaichi, Japan
2018 Keynote Lecturer, 43rd International Conference on Coordination Chemistry, Sendai, Japan
2018 Keynote Lecturer, 28th International Conference on Organometallic Chemistry, Florence, Italy
2018 Keynote Lecturer, 13th International Symposium on Macrocyclic and Supramolecular Chemistry, Quebec City, Canada
2018 Invited Speaker, 2018 Wolf Symposium, Israel
2017 Invited Speaker, 3RD International Symposium on center of Excellence for Innovatiove Material Sciences Based on Supramolecules, Kanazawa, Japan
2017 Plenary Lecturer, ACCC6, Melbourne, Australia
2017 Keynote Lecturer, 13th International Conference on Materials Chemistry, Liverpool, UK
2017 Invited Speaker, Chemistry Beyond the Mechanical Bond Symposium 2017, Cambridge, UK
2017 Invited Speaker, ICCB 2017, Brno, Czech
2017 Invited Speaker, International Symposium on Visionary Trends in Molecular Science, Tianjin, China
2017 Plenary Lecturer, 5th Asian Summit Meeting, Sanya, China
2016 Plenary Lecturer, 10th High-tech Research Center International Symposium, Chiba, Japan
2016 Invited Speaker, IWPCC, Altay, Russia
2016 Plenary Lecturer, HGCS, Kochi, Japan
2016 Invited Speaker, S2DP-2, Nara, Japan

2015 Invited Speaker, Pacifichem 2015, Honolulu, U.S.A.
2015 Plenary Lecturer, The 4th International Conference on Cucurbituril, Tianjin, China
2015 Plenary Lecturer, 4th International Supramolecular System Symposium, Changchun, China
2014 Plenary Lecturer, 13th Eurasia Conference on Chemical Science, Bangalore, India
2014 Invited Lecturer, IPC2014, Tsukuba, Japan
2014 Keynote Lecturer, NANO KOREA 2014, Seoul, Korea
2014 Plenary Lecturer, The 9th ISMSC, Shanghai, China
2013 Keynote Lecturer, 12th ASCA'13, Hong Kong
2013 Plenary Lecturer, ICCB2013, Canberra, Australia
2013 Keynote Lecturer, ACC2013, Singapore
2013 Keynote Lecturer, IUPAC2013, Istanbul, Turkey
2013 Plenary Lecturer, ICCOSS2013, Oxford, UK
2012 Keynote Lecturer, MOF2012, Edinburgh, Scotland
2012 Plenary Lecturer, ICHAC-10, Kyoto, Japan
2012 Plenary Lecturer, ISMSC, Dunedin, New Zealand
2011 Invited Speaker, MSC100 Symposium, Warsaw, Poland
2011 Plenary Lecturer, China-Korea Joint Symposium on Nanoscience and Nanotechnology, Shanghai, China
2011 Plenary Lecturer, ACCC-3, Delhi, India
2011 Plenary Lecturer, ICCB-2011, Cambridge, UK
2011 Invited Speaker, Viet Nam MOF Symposium, Ho Chi Min city, Viet Nam
2010 Invited Speaker, Pacifichem 2010, Honolulu, U.S.A.
2010 Invited Speaker, Xiangshan Science Conference, Beijing, China
2010 Plenary Lecturer, SCAN, Ankara, Turkey
2010 Invited Speaker, International Symposium on Mulitdimensional Supramolecular Chemistry, Beijing, China
2010 Invited Speaker, ISMSC 2010, Nara, Japan
2010 Invited Speaker, 4th Summit Symposium, Okinawa, Japan
2010 Plenary Lecturer, The 2010 World Premier Institute-Advanced Institute for Materials Research (WPI-AIMR) Workshop, Sendai, Japan
2010 Invited Speaker, ACS Meeting, San Francisco, U.S.A.
2010 Invited Speaker, 3rd International Symposium on Creation of Functional Nanospace, Kanagawa University, Japan
2009 Plenary Lecturer, International Symposium on Multifunctional Organic Materials and Devices, Chiba, Japan
2009 Invited Speaker, 2nd Korea-Taiwan Bilateral Symposium on Materials Chemistry and Solar Energy Utilization, Yangpyeong, Korea
2009 Plenary Lecturer, ICMR 2009, Akita, Japan
2009 Keynote Lecturer, ACCC, Nanjing, China
2009 Invited Speaker, The 14th Japan-Korea Joint Symposium on Organometallic and Coordination Chemistry, Nagoya, Japan
2009 Invited Speaker, The Fifth Korea-Italy Inorganic Chemistry Symposium, Pohang, Korea
2009 Plenary Lecturer, The 5th Asian Cyclodextrin Conference 2009 (ACC 09), Busan, Korea
2008 Invited Speaker, Chemistry Innovation Global COE Symposium, Tokyo, Japan
2008 Invited Speaker, The 2nd ChemComm Symposium, Seoul, Korea
2008 Invited Speaker, The 8th Tateshina Conference, Tateshina, Japan
2008 Invited Speaker, Third Asian Summit Symposium on Supramolecular Chemistry, Cambodia
2008 Invited Speaker, ISMSC 2008, Las Vegas, USA
2008 Invited Speaker, 235th ACS Meeting, New Orleans, USA
2007 Invited Speaker, 21th Solvay Conference on Chemistry, Belgium

2007 Invited Speaker, The 2007 Ralph and Helen Oesper Symposium, Univ. Cincinnati, USA
2007 Invited Speaker, International Symposium on Molecular Technology, Seoul, Korea
2007 Invited Speaker, MPI-KOREA Symposium, Pohang, Korea
2007 Invited Speaker NANO KOREA 2007 (The 5th International Nanotech Symposium), Seoul, Korea
2007 Invited Speaker, 12th IUPAC International Symposium on MMC, Fukuoka, Japan
2007 Invited Speaker, 9th International Conference on Calixarenes, Univ. Maryland, USA
2007 Invited Speaker, Workshop on Cucurbituril Molecular Containers, Univ. Maryland, USA
2007 Invited Speaker, The 2nd Summit Symposium, Sapporo, Japan
2007 Invited Speaker, The 5th Symposium on Entropy Control of Photo- and Supramolecular Chemistry, Osaka, Japan
2006 Invited Speaker, The First Summit Symposium, Jeju, Korea
2006 Invited Speaker, ACS Meeting, San Francisco, USA
2006 Invited Speaker, ISMSC, Univ. of Notre Dame, USA
2006 Invited Speaker, The 2nd Korea-Japan Joint Symposium on Chemistry of Transition Metal Compounds, Busan, Korea
2006 Invited Speaker, Gordon Research Conference (Organic Structures & Properties), Ventura, USA
2005 Invited Speaker, Pacifichem 2005, Honolulu, USA
2005 Invited Speaker, The 13th Korea-Japan Joint Symposium on Organometallic and Coordination Chemistry Jeju, Korea
2005 Invited Speaker, 3rd COE 21 International Symposium, Tokyo, Japan
2005 Invited Speaker, ACS Meeting, Washington DC, USA
2005 Plenary Lecturer, CONNECT 2005, Sydney, Australia
2005 Invited Speaker, Gordon Research Conference (Supramolecules&Assemblies), Oxford, UK

Invited Lectures at Universities and Institutes Abroad (2005 – present)
2024 Tallinn University of Technology, Estonia
2024 Shenzhen University, China
2022 Research Centre for Natural Sciences, Hungary
2017 University of Macau, Macau
2016 King Abdullah University of Science and Technology, Saudi Arabia
2015 East China Normal University, China
2014 Jilin University, China
2012 Zhejiang University, China
2012 University of Auckland, New Zealand
2011 Dalian University of Science and Technology, China
2011 University of Trieste, Italy
2011 Kyoto University, Japan
2011 E. Muetterties Memorial Lecture, University of California, Berkeley, USA.
2010 Tohoku University, Japan
2010 University of Redboud, Njeimegen, Netherland
2010 University of Bologna, Italy
2009 Tsing-Hua University, China
2008 Kyushu University, Japan
2007 Max Planck Institute, Potsdam, Germany
2007 Cambridge University, UK
2007 University of Massachusetts, Amherst, USA
2005 Universite Louis Pasteur, France (Visiting Professorship)
2005 Adelaide University, Australia

2005 Australian National University, Australia
2005 University of Miami, USA
2005 University of Geneva, Swiss
2005 Universite Louis Pasteur, France (Visiting Professorship)
2005 JAIST, Japan