

(1) **Name:** Wai-Yeung Wong, Raymond, CChem, FRSC (<http://www.polyu.edu.hk/~abct>)

(2) **Academic qualifications**

- 01/1997–11/1997 Croucher Research Fellow, University of Cambridge, UK
(with Profs. Lord Lewis, FRS and Paul R. Raithby)
01/1996–12/1996 Postdoc, Texas A&M University, USA (with Prof. F. Albert Cotton)
07/1992–06/1995 Ph.D., Department of Chemistry, The University of Hong Kong (HKU)
(with Prof. Wing-Tak Wong)
09/1989–05/1992 B.Sc. (1st Class Hons), Department of Chemistry, HKU

(3) **Previous academic positions held**

- 09/1998–06/2016 Assistant / Associate Professor / Professor / Chair Professor
Department of Chemistry, Hong Kong Baptist University (HKBU)
09/2014–06/2016 Head, Department of Chemistry, HKBU
03/2015–06/2016 Elizabeth Law Endowed Chair of Advanced Materials (HKBU)

(4) **Present academic position**

- 07/2016–present Chair Professor of Chemical Technology, Department of Applied
Biology & Chemical Technology, The Hong Kong Polytechnic
University (PolyU)
9/2016–6/2021 Asso./Interim Dean, Faculty of Applied Science and Textiles, PolyU
7/2021–present Dean, Faculty of Appl. Science & Textiles / Faculty of Science, PolyU
2/2018–present Clarea Au Professor in Energy, PolyU

(5) **Previous relevant research work**

Inorganic/organometallic syntheses, functional molecular materials and nanomaterials

(6) **Ten representative publications** (>780 journal papers, 6 edited/co-authored books, 18 book chapters and 2 US patents and 2 Chinese patents granted)

Section A (within the recent 5 years):

1. M. Fang, L. Xu*, H. Zhang, Y. Zhu* and **W.-Y. Wong***, “Metalloporphyrin-Linked Mercuroated Graphynes for Ultrastable CO₂ Electroreduction to CO with Nearly 100% Selectivity at a Current Density of 1.2 A cm⁻²”, *J. Am. Chem. Soc.*, **2022**, *144*, 15143–15154.
2. Y. Zhao, L. Xu, X. Wang, Z. Wang, Y. Liu, Y. Wang, Q. Wang, Z. Wang, H. Huang*, Y. Liu* **W.-Y. Wong*** and Z. Kang*, “A Comprehensive Understanding on the Roles of Carbon Dots in Metallated Graphyne Based Catalyst for Photoinduced H₂O₂ Production”, *Nano Today*, **2022**, *43*, 101428.
3. J. Li, K. Chen, J. Wei, Y. Ma*, R. Zhou, S. Liu, Q. Zhao* and **W.-Y. Wong***, “Reversible On-Off Switching of Excitation-Wavelength-Dependent Emission of a Phosphorescent Soft Salt Based on Platinum(II) Complexes”, *J. Am. Chem. Soc.*, **2021**, *143*, 18317–18324.
4. L. Xu, J. Sun, T. Tang, H. Zhang, M. Sun, J. Zhang, J. Li, B. Huang, Z. Wang*, Z. Xie* and **W.-Y. Wong***, “Metallated Graphynes as a New Class of Photofunctional 2D Organometallic Nanosheets”, *Angew. Chem. Int. Ed.*, **2021**, *60*, 11326–11334.
5. Y. Sun, Y. Lei*, W. Hu and **W.-Y. Wong***, “Epitaxial Growth of Nanorod Meshes from Luminescent Organic Cocrystals via Crystal Transformation”, *J. Am. Chem. Soc.*, **2020**, *142*, 7265–7269. (Front Cover)

Section B (beyond the recent 5 years):

6. R. Sakamoto*, T. Yagi, K. Hoshiko, S. Kusaka, R. Matsuoka, H. Maeda, Z. Liu, Q. Liu, **W.-Y. Wong*** and H. Nishihara*, “Photofunctionality in Porphyrin-Hybridized

- Bis(dipyrinato)zinc(II) Complex Micro- and Nanosheets”, *Angew. Chem. Int. Ed.*, **2017**, *56*, 3526–3530.
7. C.-L. Ho*, Z.-Q. Yu* and **W.-Y. Wong***, “Multifunctional Polymetallaynes: Properties, Functions and Applications”, *Chem. Soc. Rev.*, **2016**, *45*, 5264–5295.
 8. R. Sakamoto,* K. Hoshiko, Q. Liu, T. Yagi, T. Nagayama, S. Kusaka, M. Tsuchiya, Y. Kitagawa, **W.-Y. Wong*** and H. Hishihara,* “A Photofunctional Bottom-up Bis(dipyrinato)zinc(II) Complex Nanosheet”, *Nat. Commun.*, **2015**, *6*, 6713.
 9. **W.-Y. Wong*** and C.-L. Ho, ”Organometallic Photovoltaics: A New and Versatile Approach for Harvesting Solar Energy Using Conjugated Polymetallaynes”, *Acc. Chem. Res.*, **2010**, *43*, 1246–1256.
 10. **W.-Y. Wong***, X.-Z. Wang, Z. He, A. B. Djuricic,* C.-T. Yip, K.-Y. Cheung, H. Wang, C.S.K. Mak and W.-K. Chan, “Metallated Conjugated Polymers as a New Avenue Towards High-Efficiency Polymer Solar Cells”, *Nat. Mater.*, **2007**, *6*, 521–527.

(7) Recent research awards and academic honors

- RGC Senior Research Fellowship Award, RGC (2020)
- World’s top 2% most-cited scientists by Stanford University (2019-2022)
- Thomson Reuters/Clarivate Analytics Highly Cited Researchers (2014–2020)
- Founding Member of the Hong Kong Young Academy of Sciences (2018)
- Cheung Kong Chair Professorship, Ministry of Education, P.R. China (2015/16)
- JPA Lectureship Award for Asian and Oceanian Photochemist (Eikohsha Award) (2014)
- State Natural Science Award (Second-class), State Council, P.R. China (2013)
- Asian Rising Stars Award at the 15th Asian Chemical Congress (2013)
- Asian Core Program (ACP) Lectureship Awards (2013, 2011, 2009)
- Ho Leung Ho Lee Foundation Prize for Scientific and Technological Innovation (2012)
- Distinguished Lectureship Award, The Chemical Society of Japan (2012)
- Distinguished Young Chemist Award, Federation of Asian Chemical Societies (2011)
- First Class Prize in Natural Science Award, Ministry of Education, P.R. China (2010)
- Chemistry of the Transition Metals Award, Royal Society of Chemistry (2010)
- Croucher Senior Research Fellowship Award, The Croucher Foundation (2009)

(8) Invited talks at scientific meetings

Delivered >100 invited talks (including 10 plenary, 7 award and 9 keynote lectures) at scientific meetings (ACS National Meeting, PacificChem Congress, Asian Chemical Congress, Pacific Polymer Conference, ICCS, ICOMC, etc.)

(9) Professional services and activities

- Associate Editor, *Journal of Materials Chemistry C* and *Materials Advances* (RSC) (2013-2022)
- Editor, *Journal of Organometallic Chemistry* (Elsevier)
- Editor-in-Chief, *Topics in Current Chemistry* (Springer)
- Editorial/International advisory board member of *EnergyChem*, *Chem. Rec.*, *Sci. China Chem.*, *EcoMat*, *Macromol. Rapid Commun.*, *Chem. Asian J.*, *Dalton Trans.*, etc.

(10) Highlights of scientific accomplishments and invited reviews

- As cover stories in *JACS* (ACS), *Adv. Mater.*, *Adv. Funct. Mater.*, *Adv. Sci.*, *Small*, *Macromol. Rapid Commun.* (Wiley), *Chem. Soc. Rev.*, *Energy Environ. Sci.* (RSC), etc.
- Over 40 invited reviews in journals such as *Chem. Soc. Rev.*, *Acc. Chem. Res.*, *Adv. Mater.*, *Coord. Chem. Rev.*, *J. Photochem. Photobio. C: Photochem. Rev.*, etc.
- Listed as a *Most Cited Scientist* by ISI with an h-index of 87 (total citations >33,000).
- Chairman of Hong Kong Chemical Society, Council Member of Federation of Asian Chemical Societies, Asian Chemical Editorial Society, Pacific Polymer Federation