

Yi-Tao Long

Professor Yi-Tao Long from East China University of Science and Technology is a leading scientist in electrochemical nanointerface. He earned his Ph.D. at Nanjing University under the supervision of Professor Hong-Yuan Chen. After 2-year postdoctoral study at Heidelberg University, and near 7-year research at University of Saskatchewan, University of Alberta and University of California, he started his independent work as a University Professor in the School of Chemistry and Molecular Engineering at the East China University of Science and Technology since 2007. He has been an honorary visiting professor at University of Birmingham (2014-2020), visiting professor at University of Bath (2011-) and University of Western Ontario (2014-). His main research expertise involves ***nanopore single-molecule electroanalysis, nanospectroscopy, biointerfaces spectroelectrochemistry and integrated biosensors.***

Professor Yi-Tao Long has collaborated with researchers in the UK, Germany, France, USA, Japan, and Canada. He delivered over 40 keynote talks about electrochemistry in international conferences and co-chaired 2018 Faraday Discussions on “Electrochemistry at Nano-Interfaces” . While serving as the Associate Editor of ACS Sensors (2015-), he organized ACS International Chemistry Symposium on “Frontiers in Sensors Innovation” (2018). He also served as Editorial Board member for *Microchimica Acta* (2012-), *Research* (2018-) and *Theranostics* (2011-), Advisory Board member for *ChemElectroChem* (2017-) and Royal Society Chemistry Fellow (2013). He actively served as Guest Editors on electrochemical topic for *ChemElectroChem* and *Microchimica Acta*.

Professor Yi-Tao Long has published over **280 peer-reviewed scientific papers** in high-impact journals, including *Nature Nanotechnology*, *Nature Methods*, *Nature Protocols*, *Nature Communications*, *Journal of the American Chemistry*, *Angewandte Chemie International Edition*, *Chemical Reviews Society*, *Accounts of Chemical Research*, *Chemical Science*, *Chemical Communications*, *Analytical Chemistry* and **36 patents. The total citations of his publications exceed 9500 with a 5-year H-index of 48.** He has received over ten awards and honors, including the Fellow of the Royal Society of Chemistry (FRSC), First Class Shanghai Natural Science

Award and Grand prize of Science and Technology Award of China Association for Instrumental Analysis.

Personal Statement and Information

I hold the ISE in great esteem. I would very much like to serve for Analytical Electrochemistry Division in ISE which is a dynamic, diversity and big family. To make an energetic and vivid division, I would involve in organizing meetings and symposiums of global impact and attracting young and energetic scholars to deeply cooperate in our division. I would value this opportunity to assist the Analytical Electrochemistry Division be influential, collaborative and innovative.

SELECTED LAST 2-YEAR PUBLICATIONS:

(*Corresponding author, **280** journal papers, 5-year H-index: **48** citations: 9500)

- 1 Cao, C., Ying, Y.-L., Hu, Z.-L., Liao, D.-F., Tian, H., & Long, Y.-T.* (2016). Discrimination of oligonucleotides of different lengths with a wild-type aerolysin nanopore. **Nature Nanotechnology**, 11(8): 713-718.
- 2 Cao, C., Li, M.-Y., Cirauqui N., Wang, Y.-Q., Dal Peraro, M.*, Tian H., & Long, Y.-T.* (2018). Mapping the sensing spots of aerolysin for single oligonucleotides analysis. **Nature Communications**, 9: 2823.
- 3 Cao, C.; Liao, D.-F.; Yu, R.-J.; Tian, H.; & Long, Y.-T.* (2017). Construction of an aerolysin nanopore in a lipid bilayer for single-oligonucleotide analysis, **Nature Protocols**, 12(9): 1901-1911.
- 4 Ying, Y.-L., Li, Z.-Y., Hu, Z.-L., Zhang J.-J.*, Meng, F.-N., Cao C., Long, Y.-T.*, Tian H. (2018). A time-resolved single molecular train based on the aerolysin nanopore. **CHEM**, 4(8): 1893-1901.
- 5 Ying, Y.-L., Hu, Y.-X., Gao, R., Yu, R.-J., Gu, Z., Lee, L. P., & Long, Y.-T.* (2018). Asymmetric nanopore electrode-based amplification for electron transfer imaging in live cells, **Journal of the American Chemical Society**, 140(16): 5385-5392.
- 6 Ma, H., Ma, W., Chen, J.-F., Liu, X.Y., Peng, Y.-Y., Yang, Z.-Z., Tian, H.*, Long, Y.-T.* (2018). Quantifying Visible-Light-Induced Electron Transfer Properties of Single Dye-Sensitized ZnO Entity for Water Splitting, **Journal of the American Chemical Society**, 140(16): 5272-5279.
- 7 Cao, C. & Long, Y.-T.* (2018). Biological nanopores: confined spaces for electrochemical single-molecule analysis, **Accounts of Chemical Research**, 51(2): 331-341.
- 8 Gao, R., Ying, Y.-L.*, Li, Y.-J., Hu, Y.-X., Yu, R.-J., Lin, Y., Long, Y.-T.* (2018). A 30 nm nanopore electrode: facile fabrication and direct insights into the intrinsic feature of single nanoparticle collisions. **Angewandte Chemie International Edition**, 57(4): 1011-1015.
- 9 Qian, R.C., Cao, Y., Long, Y.-T.* (2016). Dual-Targeting Nanovesicles for In Situ Intracellular Imaging of and Discrimination between Wild-Type and Mutant p53. **Angewandte Chemie International Edition**, 55(2): 719-721.