



## Professor Jianfang Wang

**Professor, Department of Physics, Faculty of Science, The Chinese University of Hong Kong**

Professor Jianfang Wang, Professor of the Department of Physics, The Chinese University of Hong Kong (CUHK), obtained his bachelor's degree in Inorganic Chemistry and Software Design in 1993 from the University of Science and Technology of China and his master's degree in Inorganic Chemistry in 1996 from Peking University. He then went to the United States and obtained his PhD degree in Physical Chemistry in 2002 from Harvard University. He pursued postdoctoral studies in the University of California, Santa Barbara prior to joining CUHK in 2005. His research interests are nanoplasmonics, nanophotonics and photocatalysis.



At CUHK, Professor Wang and his team have focused their research effort on colloidal plasmonic metal nanocrystals and tackled the synthesis, plasmonic properties and plasmon-enabled applications of colloidal metal nanocrystals. They have developed reliable methods for synthesizing different metal and can synthetically adjust the absorption and scattering capabilities of metal nanocrystals. Professor Wang has also been intensively exploring various applications based on colloidal plasmonic metal nanocrystals, such as applying plasmonic nanocrystals in colouring, photocatalysis, ultrasensitive sensing, localized photothermal heating, colour switching, smart tags for food products and detection of harmful substances in food.

Professor Wang has published more than 200 peer-reviewed papers on international journals and supervised more than 50 postgraduate students, postdoctoral researchers and visiting postgraduate students. From excellent research achievements, he has obtained a number of awards including the Young Researcher Award from CUHK and the Khwarizmi International Award by the Ministry of Science, Research and Technology of Iran. He is a current Outstanding Fellow of the Faculty of Science, CUHK and a Fellow of the Royal Society of Chemistry (RSC).

### Awards and Honours

- 2018 Research Excellence Award, CUHK
- 2018 The Khwarizmi International Award, Ministry of Science, Research and Technology of Iran
- 2016 First-class award in Natural Sciences, the Higher Education Outstanding Scientific Research Output Awards, Ministry of Education
- 2013 Young Researcher Award, CUHK