To NGAI (魏濤)

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Education Attainment:

1996 - 1999	Bachelor of Science in Chemistry, <i><u>First Class Honours</u></i> Department of Chemistry, The Chinese University of Hong Kong.
1999 – 2003	Ph.D in Chemistry, Department of Chemistry, The Chinese University of Hong Kong.Dissertation title: "Interaction of Polymer Chains in Solution" Advisor: Professor Chi Wu

Employment History:

2017. 8 – present	Professor, Department of Chemistry, The Chinese University of Hong Kong, Hong Kong.
2012. 1 – 2017. 7	Associate Professor, Department of Chemistry, The Chinese University of Hong Kong, Hong Kong.
2008. 1 – 2011. 12	Assistant Professor, Department of Chemistry, The Chinese University of Hong Kong, Hong Kong.
2006. 1 – 2007. 12	Research Assistant Professor , Department of Chemistry, The Chinese University of Hong Kong.
2005. 7 – 2005. 12	Postdoctoral Associate , Department of Chemistry, University of Minnesota, MN. USA. Advisor: Professor Timothy Lodge
2003. 5 – 2005. 4	Postdoctoral Associate in Polymer Division, BASF Aktiengesellschaft, Ludwigshafen, Germany Advisor: Dr. Helmut, Auweter and Dr. Sven-Holger, Behrens

Research Interests:

Our research interests center on the design of colloidal materials, synthesis of their macromolecular and colloidal building blocks through combination of colloid science, polymer chemistry and soft matter physics. We also focus on the developing and applying single-particle force and fluorescence microscopy to understand the nanofunctional structures, dynamics and biomolecular interactions. Current areas of focus include:

- 1. Interaction of surfaces modified with polymers, surfactants and biomolecules
- 2. Design, synthesis and assembly of functional colloidal particles

- 3. Microrehology of soft matter and biomaterials
- 4. Development of orthopaedic implant biomaterials

Research-related Awards:

2014	Research Excellent Award 2014
2013	Young Research Award 2013
2004	Croucher Fellowship, The Croucher Foundation, Hong Kong

Publication:

2 Book (editor), 2 Book Chapters; and 102 Scientific Journal Papers.

Publications in the recent years

Huan Tan, Jingjing Wei, Guanqing Sun, Changdao Mu, Wei Lin*, **To Ngai***, "Interconnected Macroporous 3D Scaffolds Templated from Gelatin Nanoparticle-Stabilized High Internal Phase Emulsions for Biomedical Applications", *Soft Matter*, **2017**, *13*, 3871-3878.

Zongpeng Yang, Xiaoli Chen, Zhou Xu, Meina Xiao, Liangzhi Hong*, **To Ngai***, "Shear-Assisted Fabrication of Block Copolymer Agglomerates with Various Morphologies in Viscous Medium", *Langmuir*, **2017**, *33*, 2829-2836.

Huan Tan, Lifeng Zhao, Sisi Tian, Hui Wen, Xiaojun Gou*, **To Ngai***, "Gelatin Particle-Stabilized High-Internal Phase Emulsions for Use in Oral Delivery Systems: Protection Effect and in Vitro Digestion Study", *J. Agric. Food Chem.* **2017**, *65*, 900-907.

Zhaohui Wang, Yafei Luan, Tiansheng Gan, Xiangjun Gong, Hong Chen*, **To Ngai***, "Long-range Interactions between Protein-Coated Particles and POEGMA Brush Layers in a Serum Environment", *Colloids Surf. B Biointerfaces*, **2017**, *150*, 279-287.

Min Liu, Xiaoli Chen, Zongpeng Yang, Zhou Xu, Liangzhi Hong*, **To Ngai***, "Tunable Pickering Emulsions with Environmentally Responsive Hairy Silica Nanoparticles", *ACS Appl. Mater. Interfaces*, **2016**, *8*, 32250-32258.

Zhaohui Wang, Chuanxin He, Xiangjun Gong*, Jianqi Wang, **To Ngai***, "Measuring the Surface-Surface Interactions Induced by Serum Proteins in a Physiological Environment", *Langmuir* **2016**, *32*, 12129-12136.

Peng Gao, Zonglin Yi, Xiaochen Xing, **To Ngai***, and Fan Jin*, "Influence of an Additive-Free Particle Spreading Method on Interactions between Charged Colloidal Particles at an Oil/Water Interface", *Langmuir* **2016**, *32*, 4909-4916.

Yifeng Sheng, Guanqing Sun, and **To Ngai***, "Dopamine Polymerization in Liquid Marbles: A General Route to Janus Particle Synthesis", *Langmuir* **2016**, *32*, 3122-3129.

Guanqing Sun, Yifeng Sheng, and **To Ngai***, "Insertion and Confinement of Air Bubbles Insides a Liquid Marble", *Soft Matter* **2016**, *12*, 542-545.

Yifeng Sheng, Guanqing Sun, Jie Wu, Guanghui Ma*, and **To Ngai***, "Silica-Based Liquid Marbles as Microreactors for the Silver Mirror Reaction", *Angew. Chem. Int. Ed.* **2015**, *54*, 7012-7017.