

Computational Modeling and Simulation of Soft Matters

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Welcome to Yan Group @ Tsinghua University

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Professional Experience:

- 2017 - Tenured Associate Professor, Principal Investigator, in Department of Chemical Engineering, Tsinghua University, China
- 2011 - 2017 Associate Professor, in Department of Chemical Engineering, Tsinghua University, China
- 2010 - 2011 Postdoc Research Fellowship, in Department of Chemical Engineering, University of Pittsburgh, USA (Prof. Anna C Balazs) "Using Simulations & Models to Design Polymer-Based Cells for Harvesting Solar Energy"
- 2007 - 2009 Humboldt Research Fellowship, in Department of Physical Chemistry II, University of Bayreuth, Germany (Prof. Alexander Böker and Prof. Andreas Fery) " Simulations of the Structures and Dynamics for the Assemblies of Functional Nanoparticles in Various Soft Matter systems"
- 2000 - 2002 CAE Engineer, Group Leader in C3P Center, Qingdao Haier Molds Co Ltd.

Education:

- 2004 - 2007 Ph.D, in Department of Chemical Engineering, Tsinghua University, China (Prof. Xu-Ming Xie): "Numerical Simulations of Surface-Directed Phase Separation in Polymer Binary Mixtures".
- 2002 - 2004 M.S., in School of Materials Science and Technology, Tianjin University, China (Prof. Jing Sheng): "Image Analysis on the Phase Formation of Multi-component Polymer Blends".

Editorial Services:

- **Editorial Board Member:** *Scientific Reports* (Nature).
- **Editor:** *Self-Assembling Systems: Theory and Simulation*, Li-Tang Yan (Ed), John Wiley & Sons: Oxford, UK. 2016, In Press (about 400 pages).

Honours and Awards:

- Excellent Young Investigator Award, NSFC, 2014
国家基金委优秀青年基金
- 221 Talent Supporting Program, Tsinghua University, 2014
清华大学221计划 (基础研究青年人才支持计划)
- Alexander von Humboldt Research Fellowship, Germany
- The 1st Feng Xinde Polymer Prize (The Nominator of the Best Paper), Elsevier
- Sumitomo Rubber Industries, Ltd. Scholarship
- First Prize of Scholarship in Tsinghua University

Teaching:

Introduction to Soft Matter Physics
32 Hours, 2 Credits.

Fall Semester, Room 336, Gongwu Building.

Selected Publications:

1. GuoLong Zhu, Ziyang Xu, Ye Yang, Xiaobin Dai and Li-Tang Yan*, [Hierarchical Crystals Formed from DNA-Functionalized Janus Nanoparticles](#), *ACS Nano* **2018**, DOI: 10.1021/acsnano.8b01842.
2. Zihan Huang, Pengyu Chen, Guolong Zhu, Ye Yang, Ziyang Xu and Li-Tang Yan*, [Bacteria-Activated Janus Particles Driven by Chemotaxis](#), *ACS Nano* **2018**, 12(7), 6725-6733.
3. Guolong Zhu, Zihan Huang, Ziyang Xu and Li-Tang Yan*, [Tailoring Interfacial Nanoparticle Organization through Entropy](#), *Accounts of Chemical Research* **2018**, 51(4), 900-909.
4. Xue-Sen Hou, Guo-Long Zhu, Li-Jun Ren, Zi-Han Huang, Rui-Bin Zhang, Goran Ungar*, Li-Tang Yan* and Wei Wang*, [Mesoscale Graphene-like Honeycomb Mono- and Multilayers Constructed via Self-Assembly of Cocusters](#), *Journal of American Chemical Society* **2018**, 140(1), 1805-1811.
5. Guoxi Xu, Zihan Huang, Pengyu Chen, Tianqi Cui, Xinghua Zhang*, Bing Miao* and Li-Tang Yan*, [Optimal Reactivity and Improved Self-Healing Capability of Structurally-Dynamic Polymers Grafted on Janus Nanoparticles Governed by Chain Stiffness and Spatial Organization](#) *Small* **2017**, 13(13), 1603155 (front cover)
6. Pengyu Chen, Zihan Huang, Junshi Liang, Tianqi Cui, Xinghua Zhang, Bing Miao* and Li-Tang Yan*, [Diffusion and Directionality of Charged Nanoparticles on Lipid Bilayer Membrane](#), *ACS Nano* **2016**, 10(12), 11541-11547.
7. Jian Mao, Pengyu Chen, Junshi Liang, Ruohai Guo and Li-Tang Yan*, [Receptor-Mediated Endocytosis of Two-Dimensional Nanomaterials Undergoes Flat Vesiculation and Occurs by Revolution and Self-Rotation](#), *ACS Nano* **2016**, 10(1), 1493-1502.
8. Chi Ma, Han Wu, Zihan Huang, Ruohai Guo, Min-Biao Hu, Christian Kübel*, Li-Tang Yan*, and Wei Wang*, [A Filled-Honeycomb-Structured Crystal Formed by Self-Assembly of a Janus Polyoxometalate-Silsesquioxane \(POM-POSS\) Co-Cluster](#), *Angewandte Chemie International Edition* **2015**, 54(52), 15699-15704.
9. Zhengyang Liu, Ruohai Guo, Guoxi Xu, Zihan Huang, and Li-Tang Yan*, [Entropy-Mediated Mechanical Response of the Interfacial Nanoparticle Patterning](#), *Nano Letters* **2014**, 14(12), 6910-6916.
10. Li-Tang Yan*, Xu-Ming Xie, [Computational Modeling and Simulation of Nanoparticle Self-Assembly in Polymeric Systems: Structures, Properties and External Field Effects](#), *Progress In Polymer Science* **2013**, 38(2), 369-405.

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