Tianran Zhang, Ph.D. candidate

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Experience

2019 – · · · Ph.D. graduate student, Department of Chemistry, The University of Hong Kong, HK.

Synthesized colloidal particles for self-assembly.

Synthesized active colloids.

Studied the non-equilibrium behaviour of active colloids.

Studied Surface Evolver for simulation of the wetting-dewetting process.

2015 – 2019 Undergraduate Research, Department of Chemistry, Jilin University, China.

■ BIOMOD Biomolecular Design Competition

Held at University of California, San Francisco.

Education

2019 – · · · Ph.D., The University of Hong Kong

Under supervision of Dr. Yufeng Wang. https://wanglab.hku.hk

2018 Autum **Exchange, Rutgers University**

2015 – 2019 **B.Sc. Chemistry, Jilin University**

GPA: 3.75/4.0 or 90.37/100.0

Research Publications

First-author Publications

[3] **T. Zhang**, D. Lyu, W. Xu, B. Ken, W. Duan, and Y. Wang, "Janus Particles with Tunable Patch Symmetries and Assembly of Chiral Colloidal Clusters", Coming soon...

[2] **T. Zhang**, D. Lyu, W. Xu, Y. Mu, and Y. Wang, "Programming Self-Assembled Materials with DNA-Coated Colloids", Front. Phys., 2019, 9.

[1] **T. Zhang**, X. Zhi, S. Guan, X. Li, Z. Qu, L, Qin, C. Hou, and J. Liu, "Construction of a reconfigurable DNA nanocage for encapsulating a TMV disk", Chem. Commun., 2019, 55, 8951-8954.

Papers with Significance Contributions

[2] D. Lyu, W. Xu, J. E. L. Payong, **T. Zhang**, and Y. Wang, "Low-Dimensional Assemblies of Metal-Organic-Framework Particles and Mutually Coordinated Anisotropy", Nat. Commun., 2022, 13, 3980. [1] S. Wang, R. Li, Y. Qing, Y. Wei, Q. Wang, **T. Zhang**, C. Sun, Y. Qin, D. Li, and J. Yu, "Antibacterial Activity of Ag-Incorporated Zincosilicate Zeoltie Scaffolds Fabricated by Additive Manufacturing", Inorg. Chem. Commun., 2019, 105, 31-35

Skills

Programming C, C++, Fortran, Python, Matlab, HTML/CSS, LaTex.

Simulation Surface Evolver, Molecular Dynamics, Monte Carlo Simulation.

Synthesis Micrometer-scale colloids, active colloids, metal-organic framework

Awards and Honors

Awards and Achievements

Lee Shau Kee Postgraduate Fellowship, The University of Hong Kong.

Awards and Honors (continued)

Silver Award in BIOMOD Biomolecular Design Competition, UCSF. (as a teammate in 2017 NANO-JLU)