

Hanqiu Jiang

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Work Experience

Spallation Neutron Source Science Center Dongguan, China
Institute of High Energy Physics, Chinese Academy of Sciences
Associate researcher Jan 2023 – present
Assistant researcher July 2019 – Dec 2022

Education Experience

University of Cincinnati Cincinnati, OH
Doctor of Philosophy in Materials Science, GPA: 4.0/4.0 Sep 2013 - Mar 2019
Structure, Thermodynamics, and Dynamics of Worm-like Micelles
Research Fellowship (Procter & Gamble), 2014-2018

University of California, Davis Davis, CA
Exchange student in Materials Science and Engineering, GPA: 3.66/4.0 Sep 2011 - July 2012
Yuanxiang scholarship recipient

Jiangnan University Wuxi, Jiangsu, China
Bachelor in Polymer Materials and Engineering, GPA: 3.0/4.0 Sep 2008 - July 2012

Research Experience

Spallation Neutron Source Science Center Dongguan, China
Small angle neutron scattering beamline scientist July 2019 – present

- Support the user experiments of the beamline: experiment design and set up, data reduction and analysis
- Develop methodology and instrumentation that expand the capability and experiment quality of the beamline
- Perform operation, maintenance and improvement of the beamline

Procter & Gamble Cincinnati, OH
Visiting Graduate Student Scholar June 2018 – September 2018

- Investigated polymer-surfactant coacervation interactions using sulfate-free surfactants.

University of Cincinnati Cincinnati, OH
Graduate Research Assistant June 2014 - Mar 2019

- Characterized worm-like micelle (WLM) structure using small angle neutron and x-ray scattering.
- Joint projected with Procter & Gamble's research group, Ron Larson from University of Michigan and Greg Smith, ORNL. Obtained experiences in teamwork, technical writing and oral presentation.

Argonne and Oak Ridge National Laboratories (APS and ORNL)
National School on Neutron and X-ray Scattering June 2015

- Experiences of using major neutron and x-ray techniques in two national labs (Advanced Photon Source and Oak Ridge National Lab).

Representative Peer Reviewed Publications

- [1] **H.Q. Jiang**, G. Beaucage, K. Vogtt, M. Weaver, The effect of solvent polarity on wormlike micelles using dipropylene glycol (DPG) as a cosolvent in an anionic/zwitterionic mixed surfactant system, *J Colloid Interf Sci*, 509 (2018) 25-31.
- [2] **H.Q. Jiang**, K. Vogtt, J.B. Thomas, G. Beaucage, A. Mulderig, Enthalpy and Entropy of Scission in Wormlike Micelles, *Langmuir*, 34 (2018) 13956-13964.
- [3] W.J. Li, **H.Q. Jiang**, X.Q. Wang, D.Y. Zhang, Y. Zhu, Y. Ke, W. Wang, H.B. Yang, Dynamic rotaxane-branched dendrimers with precisely arranged luminogens for efficient light harvesting, *Mater Today Chem*, 24 (2022) 100874.
- [4] C. Liu, W.X. Hu, **H.Q. Jiang**, G.M. Liu, C.C. Han, H. Siringhaus, F. Boue, D.J. Wang, Chain Conformation and Aggregation Structure Formation of a High Charge Mobility DPP-Based Donor-Acceptor Conjugated Polymer, *Macromolecules*, 53 (2020) 8255-8266.
- [5] K. Vogtt, **H.Q. Jiang**, G. Beaucage, M. Weaver, Free Energy of Scission for Sodium Laureth-1-Sulfate Wormlike Micelles, *Langmuir*, 33 (2017) 1872-1880.
- [6] K. Vogtt, G. Beaucage, M. Weaver, **H.Q. Jiang**, Scattering Function for Branched Wormlike Chains, *Langmuir*, 31 (2015) 8228-8234.