Nanqi Bao School of Chemical & Biomolecular Engineering Cornell University

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EDUCATION		
Cornell University, Ithaca, New York, USA	Aug. 2018-Present	
Doctor of Philosophy, Chemical Engineering (expected in 2021)		
University of Wisconsin-Madison, Madison, Wisconsin, USA Ph.D. student, Chemical Engineering	Aug. 2016-Aug. 2018	
Georgia Institute of Technology , Atlanta, Georgia, USA Master of Science, Chemical Engineering Current GPA: 3.90/4.0	Aug. 2015-May 2016	
The Pennsylvania State University , University Park, Pennsylvania, US Bachelor of Science, Materials Science and Engineering Minors: Polymer Science, Electronic and Photonic Materials Overall GPA: 3.93/4.0		
Harbin Institute of Technology, Harbin, Heilongjiang Province, China	a Aug. 2011-July 2015	
Bachelor of Engineering, Materials Science and Engineering		
 RESEARCH EXPERIENCE ➤ Chemoresponsive liquid crystals (LCs) system Under direction of Prof. Nicholas Abbott at UW-Madison and Corne 	Jan. 2016-Present Il University	
Dynamics of ion-containing polymer as single ion conductor Under direction of Prof. Ralph Colby at Pennsylvania State Universi	Jan. 2014-May 2015 ty	
 Fracture property of structural steels Harbin Institute of Technology 	2012 Fall	
TEACHING EXPERIENCE		
 Instructor in CBE 324 (Transport Phenomena Laboratory) Department of Chemical & Biological Engineering at UW-Madison 	Spring 2018	
PUBLICATIONS Szilvási, T.*, Bao, N.* (co-first) , Nayani, K., Yu, H., Rai, P., Twieg, R. J., Mavrikakis, M., Abbott, N. L., <i>Redox-Triggered Orientational Responses of Liquid Crystals to Chlorine Gas.</i> (<i>Angew. Chem. Int. Ed.</i> , 2018, <i>31</i> ,		
Nayani, K., Rai, P., Bao, N. , Yu, H., Mavrikakis, M., Twieg, R. J., Abbott, N. L., <i>Liquid Crystal with Interfacial Ordering that Enhances Responsiveness to Chemical Targets.</i> (<i>Advanced Materials</i> , 2018, 27, 1706707)		
Szilvási, T.*, Bao, N.* (co-first) , Yu, H., Twieg, R. J., Mavrikakis, M., Abbott, N. L., <i>The Role of</i> Anions in Adsorbate-Induced Anchoring Transitions of Liquid Crystals on Surfaces with Discrete		

Chen, Q., Bao, N., Wang, J., Tunic, T., Liang, S., Colby, R. H., Linear Viscoelasticity and Dielectric Spectroscope of Ionomer/Plasticizer Mixtures: a Transition from Ionomer to Polyelectrolyte. (Macromolecules, 2015, 48 (22), 8240-8252)

Cation Binding Sites. (Soft Matter, 2018, 14, 797-805)

Liang, S., Chen, Q., Choi, U., Bartels, J., **Bao, N.**, Runt, J., Colby, R. H., *Plasticizing Li single-ion conductors with low-volatility siloxane copolymers and oligomers containing ethylene oxide and cyclic carbonates.* (*J. Mater. Chem. A*, 2015, **3**, 21269-21276)

CONFERENCE PRESENTATIONS

Oral Presentation, June 2018: "The role of anions in adsorbate-induced anchoring transitions of liquid crystals on surfaces with discrete cation binding sites"

➢ 93th ACS Colloid & Surface Science Symposium, State College, PA

Poster, October 2014: "Linear viscoelasticity and dielectric spectroscopy of ionomer/plasticizer mixture: a transition from ionomer to polyelectrolyte"

▶ 86th Annual Meeting of The Society of Rheology, Philadelphia, PA

Poster, October 2014: "Linear viscoelasticity properties of two kinds of ionomers" ➤ Materials Science & Technology 2014, Pittsburg, PA

SCHORLARSHIPS & FELLOWSHIPS

<u>SCHORLARSHII 5 & FELLOWSHII 5</u>		
\triangleright	T.C. Scott Wisconsin Distinguished Fellowship (WDGF)	2016
	Pennsylvania State University	
\succ	Milton and Dorothy Henderson Scholarship	2014
	Pennsylvania State University	
\triangleright	Todd George and Madelein Scholarship	2014
	Pennsylvania State University	
\triangleright	Undergraduate Study Abroad Scholarship	2013
	Harbin Institute of Technology	
\triangleright	Materials Science and Engineering Scholarship	2012
Harbin Institute of Technology		

AWARDS AND HONORS

\triangleright	Exemplary Academic Achievement in the school of Chemical and Biomolecular Engineering	
	at Georgia Tech	2016
\triangleright	High Distinction Graduate (the second highest GPA in PSU MSE department)	2015
\triangleright	Michael M. and Mary Jane Coleman Undergraduate Award in Polymer Science and	

- Engineering at Pennsylvania State University 2015
- > Third Place Proposal in NAE Grand Challenges for Engineering in PSU (team leader) 2014
- Dean's List of Materials Science and Engineering 2013 Fall, 2014, 2015 Spring
- Technology Innovation Award in HIT
 2012