- 2. M. Gopindhan, <u>Y. Choo</u>, C. O. Osuji, "Strong Orientational Coupling of Block Copolymer Microdomains to Smectic layering Revealed by Magnetic Field Alignment.", *ACS Macro Letters* 5, (3) 292-296 (2016)
- 3. <u>Y. Choo</u>, H. Hu, K. Toth, C. O. Osuji, "Sequential Deposition of Block Copolymer Thin Films and Formation of Lamellar Heterolattices by Electrospray Deposition.", *Journal of Polymer Science Part B: Polymer Physics* **54** (2), 247-253 (2016)
- 4. J. P. Singer, C. I. Pelligra, N. Kornblum, <u>Y. Choo</u>, M. Gopinadhan, P. Bordeenithikasem, J. Ketkaew, S. F. Liew, H. Cao, J. Schroers, C. O. Osuji, "Multiscale Patterning of a Metallic Glss Using Sacrificial Imprint Lithography.", *Microsystems and Nanoengineering* 1, 15040 (2015)
- 5. <u>Y. Choo</u>, L. H. Mahajan, M. Gopinadhan, D. Ndaya, P. Deshmukh, R. M. Kasi, C. O. Osuji, "Phase Behavior of Polylactide-Based Liquid Crystalline Brushlike Block Copolymers.", *Macromolecules* **48** (22), 8315-8322 (2015)
- 6. X. Lu, S. Nejati, <u>Y. Choo</u>, C. O. Osuji, "Elements Provide a Clue: Nanoscale Characterization of Thin-Film Composite Polyamide Membranes.", *ACS Applied Materials and Interfaces* 7 (31), 16917-16922 (2015)
- 7. H. Hu, <u>Y. Choo</u>, X. Feng, C. O. Osuji, "Physical Continuity and Vertical Alignment of Block Copolymer Domains by Kinetically Controlled Electrospray Deposition.", *Macromolecular Rapid Communications* **36** (13), 1290-1296 (2015)
- 8. X. Feng, M. E. Tousley, M. G. Cowan, B. R. Wiesenauer, S. Nejati, <u>Y. Choo</u>, R. D. Noble, M. Elimelech, D. L. Gin, C. O. Osuji, "Scalable Fabrication of Polymer Membranes with Vertically Aligned 1-nm Pores by Magnetic Field Driected Self-Assembly.", *ACS Nano* 8 (12), 11977-11986 (2014)
- 9. D. P. Sweat, M. Kim, S. R. Larson, J. W. Choi, <u>Y. Choo</u>, C. O. Osuji, P. Gopalan, "Rational Design of a Block Copolymer with a High Interaction Parameter.", *Macromolecules* 47 (19), 6687-6696 (2014)
- M. Gopinadhan, P. Deshmukh, <u>Y. Choo</u>, P. W. Majewski, O. Bakajin, M. Elimelech, R. M. Kasi, C. O. Osuji, "Thermally Switchable Aligned Nanopores by Magnetic-Field Director Self-Assembly of Block Copolymers.", *Advanced Materials* 26 (30), 5148-5154 (2014)
- P. Deshmukh, M. Gopindhan, Y. Choo, S-K. Ahn, P. W. Majewski, S. K. Yoon, O. Bakajin, M. Elimelech, C. O. Osuji, R. M. Kasi, "Molecular Design of Liquid Crystalline Brush-Like Block Copolymers for Magnetic Field Directed Self-Assembly: A Platform for Functional Materials.", ACS Macro Letters 3, 462-466 (2014)
- 12. M. Gopinadhan, P. W. Majewski, <u>Y. Choo</u>, and C. O. Osuji, "Order-Disorder Transition and Alignment Dynamics of a Block Copolymer Under High Magnetic Fields by *In Situ X-Ray Scattering*", *Physical Review Letters* **110**, 078301 (2013)

CONFERENCES

- 1. <u>Y. Choo</u>, H. Hu, K. Toth, and C. O. Osuji, "Lamellae heterolattice structure using sequential electrospray deposition of block copolymers", *Gordon Research Conference Polymer Physics*, Mount Holyoke College, MA, July 24, 2016, Poster Presentation
- 2. <u>Y. Choo</u>, H. Hu, K. Toth, and C. O. Osuji, "Formation of Lamellar Heterolattices in Block Copolymer Thin Films by Electrospray Deposition", *American Physical Society*, Baltimore, MD, March 17, 2016, Oral Presentation
- 3. <u>Y. Choo</u>, M. Gopinadhan, L. H. Mahajan, R. M. Kasi, C. O. Osuji, "Liquid Crystalline Block Copolymers with Brush Type Architecture: Towards Functional Membranes by Magnetic Field Alignment", *American Physical Society*, San Antonio, TX, March 5, 2015, Oral Presentation
- Y. Choo, M. Gopinadhan, P. Deshmukh, P. W. Majewski, O. Bakajin, M. Elimelech, R. M. Kasi, C. O. Osuji, "Stimuli-Responsive Block Copolymer Nanoporous Template by Magnetic-Field Alignment.", *American Physical Society*, Denver, CO, March 5, 2014, Poster Presentation

OTHER SKILLS

- 1. Small / Wide-Angle X-ray Scattering, DSC, AFM, SEM, TEM, POM
- 2. Skillful Ultramicrotomy (Room temperature / cryo-sectioning) of soft material: Trained 20+ trainee at YINQE
- 3. Metal Machining