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Appointments:

- 2020–** Associate Professor, McKetta Department of Chemical Engineering, University of Texas at Austin, Austin, TX
- 2015–2020** Assistant Professor, McKetta Department of Chemical Engineering, University of Texas at Austin, Austin, TX
- 2013–2015** Staff Scientist, Materials Sciences Division, Lawrence Berkeley National Laboratory, Berkeley, CA
- 2010–2013** Project Scientist, Materials Research Laboratory, University of California, Santa Barbara, CA

Education:

- 2007–2010** Postdoc, University of California, Santa Barbara, CA.
- 2002–2007** Ph. D. in Chemistry, University of Minnesota, Minneapolis, MN. Thesis title: *Effects of Polydispersity on Block Copolymer Self-Assembly*.
- 1997–2002** B. S. Chemistry, B. A. German, Michigan State University, East Lansing, MI

Service and Recognition:

- 2021** Clock Award (Services for Students with Disabilities)
- 2021–2024** *Macromolecules* Editorial Advisory Board
- 2020–2021** Materials Science Undergraduate Education Committee
- 2021** Guest co-editor (w. Jian Qin, Stanford U.), early career investigator special issue, *Journal of Polymer Science*
- 2020** Laurence E. McMakin, Jr., Centennial Fellow in Chemical Engineering
- 2020** Virtual Polymer Physics Symposium Mentorship Panel
- 2019–2020** 3M Non-Tenured Faculty Award
- 2019–2023** *ACS Macro Letters* Editorial Advisory Board
- 2019–2020** President's Award for Global Learning
- 2019** Symposium organizer, presider, 258th ACS Meeting and Exposition

- 2018** ACS PMSE Arthur K. Doolittle Award
- 2018, 2019** Guest Professor, Osaka University
- 2018** Co-organizer, 2018 Texas Soft Matter Meeting (August 2018 w. Adrienne Rosales)
- 2018** Symposium organizer, presider, 256th ACS Meeting and Exposition
- 2017, 2020** Visiting Professor, Kyushu University (Ito campus)
- 2016–2019** Chair, Departmental Safety Committee (McKetta Dept. of Chemical Engineering)
- 2016** Protégé, The Academy of Medicine, Engineering and Science of Texas, 13th Annual Conference (2016)
- 2015** American Chemical Society Petroleum Research Fund Doctoral New Investigator
- 2015** Visiting Professorship at TU Eindhoven
- 2006** Finalist, Padden Award Symposium, American Physical Society (Physics)
- 2006** Doctoral Dissertation Fellowship, University of Minnesota
- 2004** Beaker and Bunsen Award, University of Minnesota

Publications in preparation:

Relationship between ionic conductivity, salt partitioning, and miscibility in high-dielectric contrast polyether blend and block polymer electrolytes. Zhu, C.; Pedretti, B. J.; Kuehster, L.; Ganesan, V.; Lynd, N. A. In preparation, 2022.

Ion transport in single-ion, comb-branched copolymer electrolytes: Experiments and simulation. Brotherton, Z. W.; Kadulkar, S.; Lynd, N. A.; Truskett, T. M.; Ganesan, V. In preparation, 2022.

Cascade ring strain release polymerization of cyclohexene oxide and derivatives into functional, high-Tg polyethers using a mono(μ -alkoxo)bis(alkylaluminum) initiator. Pedretti, B. J.; Zhu, C.; Watanabe, H.; Aoshima, S.; Lynd, N. A. In preparation, 2022.

Side-chain mediated semi-crystallinity in atactic polyethers derived from long chain *n*-alkyl epoxides: A tunable phase-change materials platform. Baltzegar, J.; Czarnecki, N.; Imbrogno, J.; Lynd, N. A. In preparation, 2022.

Publications (submitted and in-press):

- 2022** 96. Side-chain mediated crystallinity derived from atactic *n*-alkyl chain functionalized polyethers: A tunable phase-change materials platform. Baltzegar, J.; Czarnecki, N.; Imbrogno, J.; Lynd, N. A. Submitted. **2022**.
95. Stochastic and deterministic analysis of reactivity ratios in the partially reversible copolymerization of lactide and glycolide. Kuehster, L.; Jhon, Y.; Wang, Y.; Li, E.; Smith, W. C.; Xu, X.; Qin, B.; Feng, Z.; Lynd, N. A. Submitted. **2022**.
94. Controlling Architecture and Mechanical Properties of Polyether Networks with Organo-aluminum Catalysts. Dookhith, A.; Lynd, N. A.; Creton, C.; Sanoja, G. In Revision **2022**.

93. Structure-property relationships for polyether-based electrolytes in the high-dielectric constant regime. Pedretti, B. J.; Czarnecki, N. J.; Zhu, C.; Imbrogno, J.; Rivers, F.; Freeman, B. D.; Ganesan, V.; Lynd, N. A. In Revision **2022**.
92. Concurrent ring-opening/ring-closing polymerization of glycidyl acetate to acid-degradable poly(ether-co-orthoester) materials using a mono(μ -alkoxo)bis(alkylaluminum) initiator. Zhu, C.; Burkey, A. A.; Lynd, N. A. *Macromolecules* **2022**, *55*, 2797–2805. [[link](#)] Publication Date: March 16, 2022
91. Machine learning-aided engineering of hydrolases for PET depolymerization. Lu, H.; Diaz, D. J.; Czarnecki, N. J.; Zhu, C.; Kim, W.; Shroff, R.; Acosta, D. J.; Alexander, B.; Cole, H.; Zhang, Y. J.; Lynd, N. A.; Ellington, A. D.; Alper, H. S. *Nature* **2022**, *604*, 662–667. [[link](#)] Publication Date: April 28, 2022
- 2021** 90. Editorial: Early-career investigator special issue. Lynd N. A.; Qin, J. J. *Polym. Sci.* **2021**, *59*, 2364–2364. [[link](#)] Publication Date: November 1, 2021
89. The impact of macromonomer size and content on branch distributions in model graft-through copolymerizations. Zografos, A.; Lynd, N. A.; Bates, F. S.; Hillmyer, M. A. *ACS Macro Letters* **2021**, *10*, 1622–1628. [[link](#)] Publication Date: December 3, 2021
88. Biocompatible materials enabled by bio-based production of pyromelanin isoforms using an engineered *Yarrowia lipolytica*. Miller, K. K.; Springthorpe, S. K.; Imbrogno, J.; Walker, D. J. F.; Gadiyar, S.; Keitz, B. K.; Ellington, A. D.; Lynd, N. A.; Alper, H. S. *Advanced Functional Materials* **2021**, 2109366. [[link](#)] Publication Date: November 5, 2021
87. Boric acid removal with polyol-functionalized polyether membranes. Landsman, M. R.; Rivers, F.; Pedretti, B. J.; Freeman, B. D.; Lawler, D. F.; Lynd, N. A.; Katz, L. E. *Journal of Membrane Science* **2021**, *638*, 119690. [[link](#)] Publication Date: August 17, 2021.
86. Relationship between ionic conductivity, glass-transition temperature, and dielectric constant in low- T_g poly(vinyl ether) lithium electrolytes. Imbrogno, J.; Maruyama, K.; Rivers, F.; Baltzegar, J. R.; Zhang, Z.; Meyer, P. W.; Ganesan, V.; Aoshima, S.; Lynd, N. A. *ACS Macro Letters* **2021**, *10*, 1002–1007. [[link](#)] Publication Date: July 19, 2021
85. Effects of poly(glycidyl ether) structure and ether oxygen placement on CO₂ solubility. Bentley, C. L.; Song, T.; Lynd, N. A.; Brennecke, J. F. *Journal of Chemical & Engineering Data* **2021**, *66*, 2832–2843. [[link](#)] Publication Date: June 2, 2021
84. “Benchtop” biaryl coupling using Pd/Cu co-catalysis. Application to the synthesis of conjugated polymers. Minus, M. B.; Moor, S. R.; Pary, F. F.; Nirmani, L. P. T.; Chwatko, M.; Okeke, B.; Singleton, J. E.; Nelson, T. L.; Lynd, N. A.; Anslyn, E. V. *Organic Lett.* **2021**, *23*, 2973–2877. [[link](#)] Publication Date: March 30, 2021
83. Molecular weight distribution and block polymer self-assembly. Lynd, N. A.; Mahanthappa, M. K.; Noro, A. 高分子 (*KOBUNSHI*), **2021**, 70卷(2月号), 77–79. [[link](#)] Publication Date: February 2021
82. Non-intuitive trends in Flory-Huggins interaction parameters in polyether-based polymers. Antoine, S.; Geng, Z.; Zofchak, E.; Chwatko, M.; Fredrickson, G.; Lynd, N. A.;

- Ganesan, V.; Hawker, C. J.; Segalman, R. A. *Macromolecules* **2021**, *54*, 6670–6677. [[link](#)]
Publication Date: July 14, 2021
- 2020** 81. Self-healing thermoplastic elastomers formed from triblock copolymers with dense 1,2,3-triazole blocks. Yang, Y.; Kamon, Y.; Lynd, N. A.; Hashidzume, A. *Macromolecules* **2020**, *53*, 10323–10329. [[link](#)] Publication Date: November 24, 2020
80. Design of polymer blend electrolytes through a machine learning approach. Wheatle, B. K.; Fuentes, E. F.; Lynd, N. A.; Ganesan, V. *Macromolecules* **2020**, *53*, 9449–9459. [[link](#)]
Publication Date: October 21, 2020
79. Mechanism of polymer-mediated cryopreservation using poly(methyl glycidyl sulfoxide). Burkey, A. A.; Hillsley, A. V.; Harris, D. T.; Baltzegar, J. R.; Zhang, D. Y.; Sprague, W. W.; Rosales, A. M.; Lynd, N. A. *Biomacromolecules* **2020**, *21*, 3047–3055. [[link](#)] Publication Date: July 10, 2020
78. Modes of interaction in binary blends of hydrophobic polyethers and imidazolium bis(trifluoromethylsulfonyl)imide ionic liquids. Bentley, C. L.; Chwatko, M.; Wheatle, B. K.; Burkey, A. A.; Helenic, A.; Morales-Collazo, O.; Ganesan, V.; Lynd, N. A.; Brennecke, J. F. *Macromolecules* **2020**, *53*, 6519–6528. [[link](#)] Publication Date: July 21, 2020
77. Role of side-chain architecture in poly(ethylene oxide)-based copolymers. Geng, Z.; Schausser, N. S.; Lee, J.; Schmeller, R. P.; Barbon, S. M.; Segalman, R. A.; Lynd, N. A.; Hawker, C. J. *Macromolecules* **2020**, *53*, 4960–4967. [[link](#)] Publication Date: June 10, 2020
76. Unusual thermal properties of certain poly(3,5-disubstituted styrene)s. Koh, J. -H.; Zhu, Q.; Asano, Y.; Maher, M. J.; Ha, H.; Kim, S. -S.; Cater, H. L.; Mapesa, E. U.; Sangoro, J. R.; Ellison, C. J.; Lynd, N. A.; Willson, C. G. *Macromolecules* **2020**, *53*, 5504–5511. [[link](#)] Publication Date: June 25, 2020
75. Aerobic radical polymerization mediated by microbial metabolism. Fan, G.; Graham, A. J.; Kolli, J.; Lynd, N. A.; Keitz, B. K. *Nat. Chem.* **2020**, *12*, 638–646. [[link](#)] Publication Date: May 18, 2020
74. Spatial control of self-assembled block copolymer domain orientation and alignment of photo-pattered surface. Kim, J.-Y.; Liu, P.; Maher, M. J.; Callen, D. H.; Bates, C. M.; Carlson, M. C.; Asano, Y.; Blachut, G.; Rettner, C. T.; Cheng, J. Y.; Sunday, D. F.; Kline, J.; Sanders, D. P.; Lynd, N. A.; Ellison, C. J.; Willson, C. G.; Baiz, C. R. *ACS Appl. Mater. Interfaces* **2020**, *12*, 23399–23409. [[link](#)] Publication Date: April 29, 2020
73. Chemically-triggered synthesis, remodeling, and degradation of soft materials. Sun, X.; Chwatko, M.; Lee, D.-H.; Bachman, J. L.; Reuther, J. F.; Lynd, N. A.; Anslyn, E. V. *J. Am. Chem. Soc.* **2020**, *142*, 3913–3922. [[link](#)] Publication Date: February 3, 2020
72. The effect of host incompatibility and polarity contrast on ion transport in ternary polymer-polymer-salt blend electrolytes. Wheatle, B. K.; Lynd, N. A.; Ganesan, V. *Macromolecules* **2020**, *53*, 875–884. [[link](#)] Publication Date: January 21, 2020
71. Compositionally-controlled polyether membranes via mono(μ -alkoxo)bis(alkylaluminum)-initiated chain-growth network epoxide polymerization: Synthesis and transport properties. Rodriguez, C. G.; Chwatko, M.; Park, J.; Bentley, C. L.;

- Freeman, B. D.; Lynd, N. A. *Macromolecules* **2020**, *53*, 1191–1198. [[link](#)] Publication Date: February 3, 2020
- 2019** 70. Influence of host polarity on correlating salt concentrations, molecular weight, and molar conductivity in polymer electrolytes. Wheatle, B. K.; Fuentes, E. F.; Lynd, N. A.; Ganesan, V. *ACS Macro Lett.* **2019**, *8*, 888–892. [[link](#)] Publication Date: July 9, 2019
69. Recommendation for the accurate determination of reactivity ratios in chain copolymerization. Lynd, N. A.; Ferrier, R. C.; Beckingham, B. S. *Macromolecules* **2019**, *52*, 2277–2285. [[link](#)] Minor correction of sign error in equation. [[link](#)] Publication Date: March 8, 2019
68. Impact of hydration and sulfonation on the morphology and ionic conductivity of sulfonate poly(phenylene) proton exchange membranes. Sorte, E. G.; Paren, B. A.; Rodriguez, C. G.; Fujimoto, C.; Poirier, C.; Abbot, L. J.; Lynd, N. A.; Winey, K. I.; Frischknecht, A. L.; Alam, T. M. *Macromolecules* **2019**, *52*, 857–876. [[link](#)] Publication Date: January 15, 2019
- 2018** 67. Thermally cross-linked diaminophenylindane (DAPI) containing polyamides for membrane based gas separations. Dose, M. E.; Chwatko, M.; Hubacek, I.; Lynd, N. A.; Paul, D. R.; Freeman, B. D. *Polymer* **2018**, *161*, 16–26. [[link](#)] Publication Date: December 7, 2018.
66. Effect of Polymer Polarity on Ion Transport: A Competition between Ion Aggregation and Polymer Segmental Dynamics. Wheatle, B. K.; Lynd, N. A.; Ganesan, V. *ACS Macro Lett.* **2018**, *7*, 1149–1154. [[link](#)] Publication Date: November 28, 2017
65. Decoupling catalysis and chain-growth functions of mono(μ -alkoxo)bis(alkylaluminum)s in epoxide polymerization: Emergence of the N/Al adduct catalyst. Imbrogno, J.; Ferrier, R. C.; Wheatle, B. K.; Rose, M. J.; Lynd, N. A. *ACS Catal.* **2018**, *8*, 8796–8803. [[link](#)] Publication Date: August 9, 2018
64. S. Oneidensis as a living electrode for controlled radical polymerization. Fan, G.; Dundas, C. M.; Graham, A. J.; Lynd, N. A.; Keitz, B. K. *Proc. Nat. Acad. USA* **2018**. [[link](#)] Publication Date April 16, 2018
63. Sequence Dependent Peptide Surface Functionalization of Metal-Organic Frameworks. Fan, G.; Dundas, C. M.; Zhang, C.; Lynd, N. A.; Keitz, B. K. *ACS Appl. Mater. Interfaces* **2018**, *10*, 18601–18609. [[link](#)] Publication Date: May 15, 2018
62. Demystifying the Regio- and Ioselective Polymerization of Epoxides Using the Vandenberg Catalyst. Ferrier, R. C.; Iyiola, O. O.; Palmon, S. E.; Rodriguez, C. G.; Goldfeld, D. J.; Pakhira, S.; Chwatko, M.; Mendoza-Cortes, J. L.; Lynd, N. A. *Macromolecules* **2018**, *51*, 1777–1786. [[link](#)] Publication Date: February 21, 2018
61. Rewiring *Yarrowia lipolytica* toward triacetic acid lactone for materials generation. Markham, K. A.; Palmer, C. M.; Chwatko, M.; Wagner, J. M.; Murray, C.; Vazquez, S.; Swaminathan, A.; Chakravarty, I.; Lynd, N. A.; Alper, H. S. *Proc. Natl. Acad. Sci. USA* **2018**, *115*, 2096–2101. [[link](#)] Publication Date: February 12, 2018
60. Controlling the polysulfide diffusion in lithium-sulfur batteries with a polymer membrane with intrinsic nanoporosity. Yu, X.; Feng, S.; Boyer, M. J.; Lee, M.; Ferrier, R.

- C.; Lynd, N. A.; Hwang, G. S.; Wang, G.; Swinnea, S.; Manthiram, A. *Mater. Today Energy* **2018**, *7*, 98–104. [[link](#)] Publication Date: January 8, 2018
59. Understanding Poly(vinyl alcohol)-Mediated Ice Recrystallization Inhibition through Ice Adsorption Measurement and pH Effects. Burkey, A. A.; Riley, C. L.; Wang, L. K.; Hatridge, T. A.; Lynd, N. A. *Biomacromolecules* **2018**, *19*, 248–255. [[link](#)] Publication Date: November 29, 2017
58. Monitoring multicomponent transport using in-situ ATR FTIR spectroscopy. Beckingham, B. S.; Lynd, N. A.; Miller, D. J. *J. Membrane Sci.* **2018**, *550*, 348–356. [[link](#)] Publication Date: January 10, 2018.
- 2017** 57. Influence of dielectric constant on ionic transport in polyether-based electrolytes. Wheatle, B. K.; Jordan, K.; Mogurampelly, S.; Lynd, N. A.; Ganesan, V. *ACS Macro Lett.* **2017**, *6*, 1362–1367. [[link](#)] Publication Date: November 28, 2017
56. Four-fold increase in epoxide polymerization rate with change of alkyl substitution on mono- μ -oxo-dialuminum initiators. Ferrier, R. C.; Imbrogno, J.; Rodriguez, C. G.; Chwatko, M.; Meyer, P. M.; Lynd, N. A. *Polym. Chem.* **2017**, *8*, 4503–4511. [[link](#)]
55. De novo synthesis of phosphorylated triblock copolymers with pathogen virulence suppression properties that prevent infection-related mortality. Mao, J.; Zaborin, A.; Poroyko, V.; Goldfeld, D.; Lynd, N. A.; Chen, W.; Tirrell, M.; Zaborina, O.; Alverdy, J. C. *ACS Biomater. Sci. Eng.* **2017**, *3*, 2076–2085. [[link](#)]
54. Controlled co-solvent vapor annealing and the importance of quenching conditions in thin-film block copolymer self-assembly. Stahl, B. C.; Kramer, E. J.; Hawker, C. J.; Lynd, N. A. *J. Polym. Sci. B. Polym. Phys.* **2017**, *55*, 125–1130. [[link](#)]
53. Ring-opening polymerization of epoxides: Facile pathway to functional polyethers via a versatile organoaluminum initiator. Rodriguez, C. G.; Ferrier, R. C.; Helenic, A.; Lynd, N. A. *Macromolecules* **2017**, *50*, 3121–3130. [[link](#)]
52. Statistical copolymerization of lactones and epoxides to high molecular weight. Chwatko, M.; Lynd, N. A. *Macromolecules* **2017**, *50*, 2714–2723. [[link](#)]
51. Nonaqueous polyelectrolyte solutions as liquid electrolytes with high lithium ion transference number and conductivity. Buss, H. G.; Chan, S. Y.; Lynd, N. A.; McCloskey, B. D. *ACS Macro Lett.* **2017**, *2*, 481–487. [[link](#)]
- 2016** 50. Structure-conductivity relationships of block copolymer membranes based on hydrated protic polymerized ionic liquids: Effect of domain spacing. Sanoja, G. E.; Popere, B. C.; Beckingham, B. S.; Evans, C. M.; Lynd, N. A.; Segalman, R. A. *Macromolecules* **2016**, *49*, 2216–2223. [[link](#)]
49. Mussel-inspired anchoring of polymer loops that provide superior surface lubrication and antifouling properties. Taegon, K.; Banquy, X.; Heo, J.; Lim, C.; Lynd, N. A.; Lundberg, P.; Oh, D. X.; Lee, H. K.; Hong, Y.-K.; Hwang, D. S.; Waite, J. H.; Israelachvili, J. N.; Hawker, C. J. *ACS Nano* **2016**, *10*, 930–937. [[link](#)]
48. Morphology re-entry in asymmetric PS-PI-PS' triblock copolymer and PS homopolymer blends. Shi, W.; Li, W.; Delaney, K. T.; Fredrickson, G. H.; Kramer, E. J.;

- Ntaras, C.; Avgeropoulos, A.; Lynd, N. A. *J. Polym. Sci. Part B: Polym. Phys.* **2016**, *54*, 169–179. [[link](#)]
- 2015**
47. A facile synthesis of catechol-functionalized poly(ethylene oxide) block and random copolymers. Mattson, K. M.; Latimer, A. A.; McGrath, A. J.; Lynd, N. A.; Lundberg, P.; Hudson, Z. M.; Hawker, C. J. *J. Polym. Sci. Part A: Polym. Chem.* **2015**, *53*, 2685–2692. [[link](#)]
46. Simple and accurate determination of reactivity ratios using a non-terminal model of chain copolymerization. Beckingham, B. S.; Sanoja, G. E.; Lynd, N. A. *Macromolecules* **2015**, *48*, 6922–6930. [[link](#)]
45. Probing the effect of molecular non-uniformity in directed self-assembly of diblock copolymers in nano-confined space. Pitet, L. M.; Alexander-Mooney, E.; Peeters, E.; Lynd, N. A.; Druzhinina, T.; Weister, S. F.; Meijer, E. W. *ACS Nano* **2015**, *9*, 9594–9602. [[link](#)]
44. Aperiodic “bricks and mortar” mesophase: A new equilibrium state of soft matter and application as a stiff thermoplastic elastomer. Shi, W.; Hamilton, A. L.; Delaney, K. T.; Fredrickson, G. H.; Kramer, E. J.; Ntaras, C.; Avgeropoulos, A.; Lynd, N. A. *Macromolecules* **2015**, *48*, 5378–5384. [[link](#)]
43. Cooperative and sequential phase transitions in *it*-poly(propylene oxide)-*b*-poly(ethylene oxide)-*b-it*-poly(propylene oxide) triblock copolymers. Shi, W.; McGrath, A. J.; Li, Y.; Lynd, N. A.; Hawker, C. J.; Fredrickson, G. H.; Kramer, E. J. *Macromolecules* **2015**, *48*, 3069–3079. [[link](#)]
42. Creating extremely asymmetric lamellar structures *via* fluctuation-assisted unbinding of miktoarm star block copolymer alloys. Shi, W.; Hamilton, A. L.; Delaney, K. T.; Fredrickson, G. H.; Kramer, E. J.; Ntaras, C.; Avgeropoulos, A.; Lynd, N. A. *J. Am. Chem. Soc.* **2015**, *137*, 6160–6163. [[link](#)]
41. Improving the gas barrier properties of Nafion via thermal annealing: Evidence for diffusion through hydrophilic channels and matrix. Evans, C. M.; Singh, M. R.; Lynd, N. A.; Segalman, R. A. *Macromolecules* **2015**, *48*, 3303–3309. [[link](#)]
40. Synthetic strategy for preparing chiral double-semicrystalline polyether block copolymers. McGrath, A.; Rodriguez, C. G.; Kramer, E. J.; Hawker, C. J.; Lynd, N. A. *Polym. Chem.* **2015**, *6*, 1465–1473. [[link](#)]
39. A synthetic strategy for the preparation of sub-100 nm functional polymer particles of uniform diameter. Killips, K. L.; Rodriguez, C. G.; Lundberg, P.; Hawker, C. J.; Lynd, N. A. *Polym. Chem.* **2015**, *6*, 1431–1435. [[link](#)]
38. Histamine-functionalized block copolymer micelles as a drug delivery system in 2D and 3D models of breast cancer. Zhang, Y.; Lundberg, P.; Diether, M.; Porsch, C.; Jansson, C.; Lynd, N. A.; Malkoch, M.; Malmström, E.; Hawker, C. J.; Nyström, A. M. *J. Mater. Chem. B* **2015**, *3*, 2473–2486. [[link](#)]
37. Phase behavior of electrostatically complexed polyelectrolyte gels using an embedded fluctuation model. Audus, D. J.; Gopez, J. D.; Krogstad, D. V.; Choi, S.-H.; Lynd, N. A.; Kramer, E. J.; Hawker, C. J.; Fredrickson, G. H. *Soft Matter* **2015**, *11*, 1214–1225. [[link](#)]

- 2014** 36. Small angle neutron scattering study of complex coacervate micelles and hydrogels formed from ionic diblock and triblock copolymers. Krogstad, D. V.; Choi, S.-H.; Lynd, N. A.; Audus, D. J.; Perry, S. L.; Gopez, J. D.; Hawker, C. J.; Kramer, E. J.; Tirrell, M. V. *J. Phys. Chem. B* **2014**, *118*, 13011–13018. [[link](#)]
35. Hierarchically ordered nanopatterns for spatial control of biomolecules. Tran, H.; Ronaldson, K.; Bailey, N.; Lynd, N. A.; Killops, K. L.; Vunjak-Novakovic, G.; Campos, L. M. *ACS Nano* **2014**, *8*, 11846–11853. [[link](#)]
34. Synthetic aptamer-polymer hybrid constructs for programmed drug delivery into specific target cells. Oh, S. S.; Lee, B. F.; Leibfarth, F. A.; Eisenstein, M.; Robb, M. J.; Lynd, N. A.; Hawker, C. J.; Soh, H. T. *J. Am. Chem. Soc.* **2014**, *136*, 15010–10015. [[link](#)]
33. Structural evolution of polyelectrolyte-complex-core micelles and ordered-phase bulk materials. Krogstad, D. V.; Lynd, N. A.; Miyajima, D.; Gopez, J.; Hawker, C. J.; Kramer, E. J.; Tirrell, M. V. *Macromolecules* **2014**, *47*, 8026–8032. [[link](#)]
32. Symmetric poly(ethylene oxide-*b*-styrene-*b*-isoprene) triblock copolymers: Synthesis, characterization, and self-assembly in bulk and thin film. Qiao, Y.; Ferebee, R.; Lee, B.; Mitra, I.; Lynd, N. A.; Hayat, J.; Stein, G. E.; Bockstaller, M. R.; Tang, C. *Macromolecules* **2014**, *47*, 6373–6381. [[link](#)]
31. Sequence of hydrophobic and hydrophilic residues in amphiphilic polymer coatings affects surface structure and marine antifouling/fouling release properties. van Zoelen, W.; Buss, H. G.; Ellebracht, N.; Hill, Sophie; Lynd, N. A.; Fischer, D. A.; Finlay, J.; Callow, M. E.; Callow, J. A.; Kramer, E. J.; Zuckermann, R. N.; Segalman, R. A. *ACS Macro Lett.* **2014**, *3*, 364–368. [[link](#)]
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- 2013** 27. Numerical self-consistent field theory of multicomponent polymer blends in the Gibbs ensemble. Mester, Z.; Lynd, N. A.; Fredrickson, G. H. *Soft Matter* **2013**, *9*, 11288–11294. [[link](#)]
26. Linear versus dendritic molecular binders for hydrogel network formation with clay nanosheets: Studies with ABA triblock copolyethers carrying guanidinium ion pendants. Tamesue, S.; Ohtani, M.; Yamada, K.; Ishida, Y.; Spruell, J. M.; Lynd, N. A.; Hawker, C. J.; Aida, T. *J. Am. Chem. Soc.* **2013**, *135*, 15650–15655. [[link](#)]

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- 2012** 20. Mesopatterned block copolymer nanoparticles: Versatile templates for hybrid inorganic nanostructures. Connal, L.; Lynd, N.; Robb, M.; Jang, S.; Spruell, J.; Hawker, C. *Chem. Mater.* **2012**, *24*, 4036–4042. [[link](#)]
19. Poly[(ethylene oxide)-co-(methylene ethylene oxide)]: A hydrolytically degradable poly(ethylene oxide) platform. Lundberg, P.; Lee, B. F.; van den Berg, S. A.; Pressly, E. D.; Lee, A.; Hawker, C. J.; Lynd, N. A. *ACS Macro Lett.* **2012**, *1*, 1240–1243. [[link](#)]
18. Reactivity ratios and mechanistic insight for anionic ring-opening copolymerization of epoxides. Lee, B. F.; Wolffs, M.; Delaney, K. T.; Sprafke, J.; Leibfarth, F. A.; Hawker, C. J.; Lynd, N. A., *Macromolecules* **2012**, *45*, 3722–3731. [[link](#)]
17. Nanopatterning biomolecules by block copolymer self-assembly. Killops, K. L.; Gupta, N.; Dimitriou, M. D.; Lynd, N. A.; Jung, H.; Tran, H.; Bang, J.; Campos, L. M. *ACS Macro Lett.* **2012**, *1*, 758–763. [[link](#)]
16. Functional block copolymer nanoparticles: Toward the next generation of delivery vehicles. Robb, M. J.; Connal, L. A.; Lee, B. F.; Lynd, N. A.; Hawker, C. J. *Polym. Chem.* **2012**, *3*, 1618–1628. [[link](#)]
- 2011** 15. Poly(allyl glycidyl ether)—A versatile functional polyether platform. Lee, B. F.; Kade, M. J.; Chute, J. A.; Gupta, N.; Campos, L. M.; Fredrickson, G. H.; Kramer, E. J.; Lynd, N. A.; Hawker, C. J. *J. Polym. Sci. Part A: Polym. Chem.* **2011**, *49*, 4498–4504. [[link](#)]
14. A general approach to controlling the surface composition of poly(ethylene oxide)-based block copolymers for antifouling coatings. Dimitriou, M. D.; Zhou, Z.; Yoo, H.-S.; Killops, K. L.; Finlay, J. A.; Sundaram, H. S.; Lynd, N. A.; Barteau, K. P.; Campos, L. M.; Fischer, D. A.; Callow, M. E.; Callow, J. A.; Ober, C. K.; Hawker, C. J.; Kramer, E. J. *Langmuir* **2011**, *27*, 13762–13772. [[link](#)]
13. Synthesis of thermally stable Au-core/Pt-shell nanoparticles and their segregation behavior in diblock copolymer mixtures. Jang, S.; Khan, A.; Dimitriou, M.; Kim, B. J.; Lynd, N. A.; Kramer, E. J.; Hawker, C. J. *Soft Matter* **2011**, *7*, 6255–6263. [[link](#)]

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- 2010** 11. Ketene functionalized polyethylene: control of crosslink density and mechanical properties. Leibfarth, F.; Schneider, Y.; Lynd, N. A.; Schultz, A.; Moon, B.; Bazan, G.; Hawker, C. J. *J. Am. Chem. Soc.* **2010**, *132*, 14706–14709. [[link](#)]
10. Design of soft and strong thermoplastic elastomers based on non-linear block copolymer architectures using self-consistent mean field theory. Lynd, N. A.; Oyerokun, F. T.; O'Donoghue, D. L.; Handlin, D.; Fredrickson, G. H. *Macromolecules* **2010**, *43*, 3479–3486. [[link](#)]
9. Processing-structure-mechanical property relationships of semicrystalline polyolefin based block copolymers. Deplace, F.; Wang, Z.; Lynd, N. A.; Hotta, A.; Rose, J. M.; Hustad, P. D.; Tian, J.; Ohtaki, H.; Coates, G. W.; Shimizu, F.; Hirokane, K.; Yamada, F.; Shin, Y. W.; Rong, L. X.; Zhu, J.; Toki, S.; Hsiao, B. S.; Fredrickson, G. H.; Kramer, E. J. *J. Polym. Sci., Part B: Polym. Phys.* **2010**, *48*, 1428–1437. [[link](#)]
- 2009** 8. Novel polyolefin elastomers prepared by grafting poly(n-butylacrylate) from polyethylene macroinitiators. Schneider, Y.; Lynd, N. A.; Kramer, E. J.; Bazan, G. C. *Macromolecules* **2009**, *42*, 8763–8768. [[link](#)]
- 2008** 7. C₂-symmetric Ni(II) alpha-diimines featuring cumyl-derived ligands: Synthesis of improved elastomeric regiorandom polypropylenes. Rose, J. M.; Deplace, F.; Lynd, N. A.; Wang, Z.; Hotta, A.; Lobkovsky, E. B.; Kramer, E. J.; Coates, G. W. *Macromolecules* **2008**, *41*, 9548–9555. [[link](#)]
6. Theory of polydisperse block copolymer melts: Beyond the Schulz-Zimm distribution. Lynd, N. A.; Matsen, M. W.; Hillmyer, M. A. *Macromolecules* **2008**, *41*, 4531–4533. [[link](#)]
5. Polydispersity and block copolymer self-assembly. Lynd, N. A.; Meuler, A. J.; Hillmyer, M. A. *Prog. Polym. Sci.* **2008**, *33*, 875–893. [[link](#)]
- 2007** 4. Renewable resource thermoplastic elastomers based on polylactide and polymenthide. Wanamaker, C. L.; O'Leary, L. E.; Lynd, N. A.; Hillmyer, M. A.; Tolman, W. B. *Biomacromolecules* **2007**, *8*, 3634–3640. [[link](#)]
3. The role of polydispersity in the lamellar mesophase of model diblock copolymers. Lynd, N. A.; Hamilton, B. J.; Hillmyer, M. A. *J. Polym. Sci. Part B: Polym. Phys.* **2007**, *45*, 3386–3393. [[link](#)]
2. Effects of polydispersity on the order-disorder transition in block copolymer melts. Lynd, N. A.; Hillmyer, M. A. *Macromolecules* **2007**, *40*, 8050–8055. [[link](#)]
- 2005** 1. Influence of polydispersity on the self-assembly of diblock copolymers. Lynd, N. A.; Hillmyer, M. A. *Macromolecules* **2005**, *38*, 8803–8810. [[link](#)]

Former post-doctoral fellows (with current location):

Bryan Beckingham	Assistant Prof.	Auburn University
Robert C. Ferrier Jr.	Assistant Prof.	Michigan State University
Daniel J. Miller	Staff Sci.	Lawrence Berkeley National Laboratory

Goliath Beniah	Applications Sci.	Eastman Chemical Co.
Congzhi Zhu	Research Sci.	Formosa Plastics

Former graduate students (with current location, defense date):

Christina Rodriguez	Ink Chemist	Hewlett Packard	07/2019
Malgorzata Chwatko	Assistant Prof.	University of Kentucky	08/2019
Paul W. Meyer	Postdoc	National Renewable Energy Lab.	11/2019
Gang Fan	Postdoc	MIT	12/2019
Jai Hyun Koh	Senior Research Sci.	Korea Inst. Sci. and Tech. (Korea)	12/2019
Chola Dandamudi	PTD Litho. Egr.	Intel Corporation	12/2019
Ji-Yeon Kim	Process Engineer	Lam Research	12/2019
Qingjun Zhu	Process Engineer	Lam Research	12/2019
Bill K. Wheatle	Consultant	Energy and Env. Econ.	04/2020
Aaron Burkey	NRC Postdoc	NIST	05/2020
Jennifer Imbrogno	Sen. Polym. Chem.	Opus 12 (12)	05/2021

Current graduate students (with undergraduate institution, start date):

Benjamin Pedretti (ChE)	Univ. Illinois	Fall 2018
Frederick Rivers (ChE)	Arizona State Univ.	Fall 2018
Jared Keever (Ch)	East Carolina Univ.	Fall 2019
Louise Kuehster (ChE)	Univ. of Oklahoma	Fall 2019
Mostafa Nassr (ChE)	Georgia Tech.	Fall 2019
Zachary W. Brotherton (ChE)	North Carolina State Univ.	Fall 2019
Aubrey Quigley (ChE)	Purdue University	Fall 2021
August K Longo (Ch)	Cornell University	Fall 2021
Isaac W. Tan (Ch)	Mississippi College	Fall 2021

Current post-doctoral fellows (with Ph.D. institution, start date):

Michael Bingham	Queen's University Belfast	Summer 2021
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Classroom Teaching

2021 Fall CHE 355 Introduction to Polymers. (cross-listed CHE 392P, CH 367L, CH 392N)

Enrollment: 85. Instructor Rating: 4.7/5.0. Course Rating: 4.5/5.0.

Spring CHE 348 Numerical Methods and Problem Solving in Chemical Engineering,

Enrollment: 38. Instructor Rating: 4.9/5.0. Course Rating: 4.4/5.0.

2020 Fall CHE 355 Introduction to Polymers. (cross-listed CHE 392P, CH 367L, CH 392N)

Enrollment: 70. Instructor Rating: 4.8/5.0. Course Rating: 4.7/5.0.

Spring CHE 348 Numerical Methods and Problem Solving in Chemical Engineering,

Enrollment: 90. Instructor Rating: 4.2/5.0. Course Rating: 4.0/5.0.

2019 Fall CHE 355 Introduction to Polymers. (cross-listed CHE 392P, CH 367L, CH 392N)

Enrollment: 76. Instructor Rating: 3.5/5.0. Course Rating: 3.3/5.0.

Spring N/A

- 2018** **Fall** CHE 355 Introduction to Polymers. (cross-listed CHE 392P, CH 367L, CH 392N)
Enrollment: 113. Instructor Rating 4.2/5.0. Course Rating 3.9/5.0.
CHE 374 Chemical Reactor Design and Analysis.
Enrollment: 24. Instructor Rating 4.3/5.0. Course Rating 4.2/5.0.
Spring CHE 348 Numerical Methods and Problem Solving in Chemical Engineering,
Enrollment: 82. Instructor Rating: 4.6/5.0. Course Rating: 4.3/5.0.
- 2017** **Fall** CHE 355 Introduction to Polymers. (cross-listed CHE 392P, CH 367L, CH 392N)
Enrollment: 83. Instructor Rating 4.1/5.0. Course Rating 3.8/5.0.
Spring N/A
- 2016** **Fall** CHE 355 Introduction to Polymers. (cross-listed CHE 392P, CH 367L, CH 392N)
Enrollment: 76. Instructor Rating 4.5/5.0. Course Rating 4.3/5.0.
Spring CHE 348 Numerical Methods and Problem Solving in Chemical Engineering
Enrollment: 48. Instructor Rating: 4.2/5.0. Course Rating: 4.0/5.0.
- 2015** **Fall** CHE 348 Numerical Methods and Problem Solving in Chemical Engineering
Enrollment: 37. Instructor Rating: 3.5/5.0. Course Rating: 3.4/5.0.

Invited Presentations:

- 2022** Departmental Seminar, Chemical and Biomolecular Engineering, University of Tennessee, Knoxville (Rescheduled for fall).
Departmental Seminar, Chemical and Biological Engineering, University of Alabama, Tuscaloosa (Rescheduled for fall).
Seminar, Institute for Materials Chemistry and Engineering, Kyushu University, Fukuoka, Japan (February 27th, 2022).
BK21+ Program, Materials for Sustainable Future, Yonsei University, South Korea (January 20th, 2022).
- 2021** 2021 Southwest Regional Meeting of the American Chemical Society, Austin, TX, November 2nd, 2021.
2021 Joint Nanoscience and Neutron Scattering User Meeting. Oak Ridge National Laboratory, August 9th, 2021.
- 2020** Departmental Seminar, Biodesign Center for Sustainable Macromolecular Materials and Manufacturing, School of Engineering of Matter, Transport and Energy, School of Molecular Sciences, Arizona State University, December 3rd, 2020.
Departmental Seminar, Department of Chemistry and Biochemistry, Texas State University, November 11th, 2020.

- Departmental Seminar, Eastman Seminar Series, School of Polymer Science and Engineering, University of Southern Mississippi, October 21st, 2020.
- Departmental Seminar, Department of Chemical & Biological Engineering, Tufts University, October 5th, 2020.
- Departmental Seminar, Chemical and Biomolecular Engineering, University of Illinois at Urbana-Champaign, March 12th, 2020.
- 2019** Distinguished Polymer Lecturer Series, Department of Chemistry and Polymer Chemistry Initiative at Pittsburg State University, September 13th, 2019.
- Center for Nonlinear Dynamics Seminar, Department of Physics, University of Texas at Austin, March 11th, 2019.
- 2018** Symposium on Block Polymer Synthesis and Nanoscale Self-Assembly. 256th National ACS Meeting and Exposition, Boston, MA, August 19th–23rd, 2018
- 4th Functional Polymeric Materials Conference, Nassau, Bahamas, June 5th–8th, 2018.
- Department of Chemistry, University of Texas at Austin, Organic Division Seminar, April 13th, 2018.
- ACS Award in Polymer Chemistry: Symposium in honor C. Grant Willson, American Chemical Society National Meeting in New Orleans, LA, March 18th–22nd, 2018.
- Symposium: バイオ界面における 水分子の役割の理解と制御 (“Understanding and control of the role of water molecules at bio-interfaces”), Kyushu University, January 11th, 2018.
- 2017** American Institute of Chemical Engineers, 2017 AIChE Annual Meeting, Minneapolis, MN, October 29th–November 3rd, 2017.
- International Symposium on Ionic Polymerization, Durham University, UK, September 17th–22nd, 2017.
- DSM Science & Technology Award Symposium. American Chemical Society National Meeting in Washington, DC, August 22nd, 2017.
- Charles Overberger Award in honor of Craig J. Hawker. 254th American Chemical Society National Meeting in Washington, DC, August 20th, 2017.
- Texas Soft Matter Meeting, University of Houston, Houston, TX, August 18th, 2017.
- Seminar, Waseda University, Tokyo, Japan, March 6th–10th, 2017.
- Seminar, University of Washington, Seattle, March 4th, 2017.
- 2016** Army Research Laboratory, April 21st, 2016.
- Nagoya University, January 29th, 2016.
- Institute for Materials Chemistry and Engineering International Symposium, Kyushu University, Japan, January 27th, 2016.
- 2015** Eindhoven Technical University, Colloquium, July 6th, 2015.

- DSM (Netherlands), Geleen, Netherlands, June 10th, 2015.
Department of Chemical and Biological Engineering, Colorado State University, Fort Collins, CO, April 24th, 2015.
- 2014** McKetta Department of Chemical Engineering, University of Texas, Austin, TX, March 4th, 2014.
Institute for Molecular Engineering, University of Chicago, January 23rd, 2014.
- 2013** IUPAC International Meeting on Ionic Polymerization 2013, Awaji-Island, Japan, September 22–28th, 2013.
Los Angeles Venture Association: First Look LA, June 12th, 2013.
Seminar, Department of Chemistry and Biochemistry, University of South Carolina, January 17th, 2013.
- 2012** IUPAC World Polymer Congress, June 26, 2012, Blacksburg, VA.
WPI-AIMR workshop, California NanoSystems Institute (UCSB), January 10th, 2012.
- 2011** Seminar, Nagoya University, Nagoya, Japan, November 17th, 2011.
Seminar, Waseda University, Tokyo, Japan, November 16th, 2011.
Carl S. Marvel Award Symposium in Honor of Marc A. Hillmyer at the ACS National Meeting in Anaheim, CA. March 25th, 2011.
Materials Research Outreach Program (UCSB), February, 2nd, 2011.
- 2007** Seminar, University of Osaka, Osaka, Japan, June, 2007.

Research Funding Activity (UT Only):

- 2022–23** Synthesis of block polymer materials for self-assembly of isoporous supports. Membrane Technology Research, Inc. \$205,971. (PI: Lynd)
- 2021–24** Systems and Synthetic Biology Approaches to Plastic Degradation - Phase 2. Exxon-Mobil. \$1,314,545. (PIs: Alper, Ellington, Lynd).
- 2022–23** Stable radical containing polymers. Sandia National Laboratories, LDRD. \$145,000. (PIs: Applehaus, Lynd).
- 2020–24** Effect of repeat unit ordering on the properties of melt-extruded, poly(lactide-co-glycolide)-based long-acting implants. Food & Drug Administration. \$1,095,703 (PI: Lynd, co-PI: Zhang@UT Pharmacy).
- 2020–22** SBIR Phase I: A novel, field-deployable, biomimetic narcotics detector for the identification of fentanyl and other synthetic opioids. National Institutes of Health. \$76,639. (PI: Dr. John Cowart, Seacoast Science).
- 2020–22** STTR Phase I: A roadside marijuana breathalyzer to rapidly screen for cannabinoid sobriety. National Science Foundation. 2041624. \$67,500. (PI: Dr. John Cowart, Seacoast Science).
- 2020–23** Lewis pair catalyst platform for functional polyether synthesis. National Science Foundation. CHE-2004167. \$397,812. (PI: Lynd)

- 2020** Materials and Methods for 100% Post-thaw Survival of Cells and Tissue after Frozen Storage. TX Health Catalyst. \$40,000. (PIs: Lynd, Czarnecki, Burkey)
- 2019–22** Functional Epoxide Photopolymerization: Fundamentals and Materials Synthesis. Welch Foundation. F-1904-20190330. \$240,000. (PI: Lynd)
- 2019–20** Synthesis of block polymer materials for self-assembly of isoporous supports. Membrane Technology Research, Inc. \$29,340. (PI: Lynd)
- 2019–20** A Synthetic Platform for Epoxide Polymerization: New concepts and materials for membranes and structural adhesives. 3M Non-Tenured Faculty Award. \$30,000. (PI: Lynd)
- *2019–20** Organic Processable Polymer-Based Transparent Conducting Films. LG Chem, Ltd. Global Innovation Contest 2018. \$300,000. (PI: Lynd) *Failed final contract negotiations between LG Chem and UT.
- 2018–22** Center for Materials for Water and Energy Systems. Energy Frontiers Research Center, Basic Energy Sciences, Department of Energy. #DE-SC0019272. \$10,750,000. (Senior personnel: Freeman, Katz, Segalman, Lynd, Truskett, Abu-Omar, Bates, Crumlin, Doherty, Fredrickson, Ganesan, Han, Hawker, Hexemer, Kubicki, Lawler, Long, Peters, Sharma, Shell, Squires, Webber)
- 2018–19** Travel Support for the 256th National Meeting and Exposition of the American Chemical Society Symposium “Block Polymer Synthesis and Self-Assembly” Boston, MA, August 19–23, 2018. National Science Foundation. \$5000. (PI: Lynd)
- 2018–20** Bio-derived Monomers for Unique Polymeric Materials, ExxonMobil. \$395,103. (PI: Lynd, co-PI: Alper)
- 2017–23** Center for Dynamics and Control of Materials, Materials Research Science and Engineering Center, National Science Foundation. DMR-1720595. \$15,600,000. (PIs: Akinwande, Alu, Anslyn, Bang, Bonnacaze, Cavalleri, Demkov, Ellington, Fiete, Freeman, Ganesan, Huang, Kaindl, Kono, Korgel, Lai, Li, Liechti, Lynd, MacDonald, Milliron, Rosales, Truskett, Yu, Zhou)
- 2017–20** High performance polymer electrolytes through high dielectric polymers and blends, National Science Foundation. \$450,000. (PIs: Lynd, Ganesan)
- 2017–19** Molecular Engineering of New, Ultra-High Molecular Weight Polymers for Enhanced Oil Recovery, ExxonMobil, University of Texas Energy Institute Seed Grant. \$250,950. (PIs: Lynd, Ganesan, Mohanty)
- 2016–17** Modification of Mechanical and Thermal Properties of Polyimide Interlayer Dielectrics. Keysight Technologies, Research Grant. \$50,000. (PI: Lynd)
- 2016–20** Assessing Impact of Poly(vinyl alcohol) Crystallinity on Ice Growth Inhibition. Plan II SAWIAGOS. *ca.* \$60,000/yr. (PI: Lynd)
- 2016–17** A New Paradigm for the Synthesis of Degradable Biomedical Poly(ethylene oxide). Research Grant, University of Texas at Austin. \$6,000. (PI: Lynd)
- 2016–18** Uncovering Design Principles of Ionically-Conductive Mesostuctured Membranes. Sandia National Laboratory, LDRD. \$130,000. (PIs: Lynd, Alam, Frischknecht)

- 2016–19** Synthesis and Self-assembly of Cooperatively Crystalline Block Copolymers. F-1904, Welch Foundation, Research Grant. \$195,000. (PI: Lynd)
- 2016–18** A Versatile Catalytic Approach to Polyether Synthesis, 56387-DNI7, American Chemical Society, Petroleum Research Fund, Doctoral New Investigator Grant. \$110,000. (PI: Lynd)
- 2015–18** Start-up Funding, McKetta Department of Chemical Engineering, University of Texas at Austin. \$658,000.

Intellectual Property Activity:

Cryoprotectant polymers and methods of making and using thereof. Lynd, N. A.; Burkey, A. A.; Rosales, A. R.; Harris, D.; Hillsley, A.; Czarnecki, N. J. U.S. Patent Apps. No. 62/878,099. July 24, 2019.

Improved catalysts for ring-opening polymerization. Lynd, N. A.; Imbrogno, J.; Ferrier, R. C. U.S. Patent Appl. No. 62/711,866. July 30, 2018.

Metabolic control over organometallic catalysts using electroactive bacteria. Keitz, B. K.; Fan, G.; Dundas, C.; Lynd, N. A. U.S. Patent Appl. No. 62/647,996. March 26, 2018.

Lactone-epoxide statistical copolymers. Lynd, N. A.; Chwatko, M. U.S. Patent Appl. No. 15/923,150. March 16th, 2018.

Polymer Useful for an Ion Exchange Membrane. Liang, S.; Lynd, N. A., U.S. Patent No. 9,593,215. March 14th, 2017.

Polymer Electrolytes Based on Poly(glycidyl ether)s. Lynd, N. A.; Fredrickson, G. H.; Hawker, C. J.; Kramer, E. J.; Barteau, K. P., U.S. Patent No. 8,911,639. December 16th, 2011.