

ANNE J. MCNEIL

PROFESSIONAL EXPERIENCE

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| Carol A. Fierke Collegiate Professor Department of Chemistry Macromolecular Science and Engineering Program University of Michigan , Ann Arbor, MI | 2020–present |
| Arthur F. Thurnau Professor Department of Chemistry Macromolecular Science and Engineering Program University of Michigan , Ann Arbor, MI | 2016–present |
| Arthur F. Thurnau Associate Professor Department of Chemistry Macromolecular Science and Engineering Program University of Michigan , Ann Arbor, MI | 2013–2016 |
| Seyhan N. Ege Assistant Professor Department of Chemistry Macromolecular Science and Engineering Program University of Michigan , Ann Arbor, MI | 2007–2013 |

EDUCATION

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|---|-----------|
| L'Oreal Postdoctoral Fellow Massachusetts Institute of Technology , Cambridge, MA Advisor: Professor Timothy M. Swager | 2005–2007 |
| Ph.D. in Chemistry Cornell University , Ithaca, NY Advisor: Professor David B. Collum | 1999–2005 |
| B.S. in Chemistry, <i>summa cum laude</i> College of William and Mary , Williamsburg, VA Advisor: Professor Robert J. Hinkle | 1995–1999 |

AWARDS

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|---|------|
| Harold R. Johnson Diversity Service Award | 2020 |
| Claudia Joan Alexander Trailblazer Award | 2019 |
| Guggenheim Fellow | 2019 |
| AAAS Fellow | 2017 |
| Faculty Recognition Award | 2016 |
| Howard Hughes Medical Institute Professor | 2014 |
| Provost's Teaching Innovation Prize | 2014 |
| Arthur F. Thurnau Professorship | 2014 |

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|---|----------------|
| Class of 1923 Memorial Teaching Award | 2013 |
| Camille and Henry Dreyfus Foundation Teacher-Scholar Award | 2012 |
| Alfred P. Sloan Research Fellow | 2011 |
| LSA Excellence in Education Award | 2011 |
| Army Research Office – Presidential Early Career Award in Science and Engineering | 2010 |
| NSF CAREER Award | 2010 |
| Office of Naval Research – Young Investigator Award | 2009 |
| Arnold and Mabel Beckman Young Investigator Award | 2009 |
| Thieme Journal Award, <i>Synthesis</i> and <i>Synlett</i> | 2009 |
| 3M Nontenured Faculty Research Award | 2009/2010/2011 |
| Seyhan N. Ege Junior Faculty Award | 2009 |

RESEARCH PUBLICATIONS (AT MICHIGAN)

57. Fagnani, D. E.; Hall, A. O.; Zurcher, D. M.; Sekoni, K. N.; Barbu, B. N.; McNeil, A. J. Short Course on Sustainable Polymers for High School Students. *J. Chem. Educ.* **2020**, *97*, 2160–2168. DOI: [10.1021/acs.jchemed.0c00507](https://doi.org/10.1021/acs.jchemed.0c00507)
56. Harris, J. T.; McNeil, A. J. Localized Hydrogels based on Cellulose Nanofibers and Wood Pulp for Rapid Removal of Methylene Blue. *J. Polym. Sci.* **2020**, ASAP. DOI: [10.1002/pol.20200590](https://doi.org/10.1002/pol.20200590) (First appeared on ChemRxiv DOI: [10.26434/chemrxiv.11774757.v1](https://doi.org/10.26434/chemrxiv.11774757.v1))
55. Kumar, V.; Harris, J. T.; Ribbe, A.; Franc, M.; Bae, Y.; McNeil, A. J.; Thayumanavan, S. Construction from Destruction: Hydrogel Formation from Triggered Depolymerization-based Release of an Enzymatic Catalyst. *ACS Macro Lett.* **2020**, *9*, 377–381. DOI: [10.1021/acsmacrolett.0c00023](https://doi.org/10.1021/acsmacrolett.0c00023)
54. Wu, N.; Kubo, T.; Hall, A. O.; Zurcher, D. M.; Phadke, S.; Wallace, R. L.; McNeil, A. J. Adapting Meaningful Learning Strategies to Teach Liquid-Liquid Extractions. *J. Chem. Educ.* **2020**, *97*, 80–86. DOI: [10.1021/acs.jchemed.9b00717](https://doi.org/10.1021/acs.jchemed.9b00717)
53. Kothari, D. B.; Hall, A. O.; Castaneda, C. A.; McNeil, A. J. Connecting Organic Chemistry Concepts with Real-World Contexts by Creating Infographics. *J. Chem. Educ.* **2019**, *96*, 2524–2527. DOI: [10.1021/acs.jchemed.9b00605](https://doi.org/10.1021/acs.jchemed.9b00605)
52. Wu, N.; Kubo, T.; Sekoni, K. N.; Hall, A. O.; Phadke, S.; Zurcher, D. M.; Wallace, R. L.; Kothari, D. B.; McNeil, A. J. Student-Designed Green Chemistry Experiment for a Large-Enrollment, Introductory Organic Chemistry Course. *J. Chem. Educ.* **2019**, *96*, 2420–2425. DOI: [10.1021/acs.jchemed.9b00375](https://doi.org/10.1021/acs.jchemed.9b00375)
51. Lutz, J. P.; Davydovich, O.; Hannigan, M. D.; Moore, J. S.; Zimmerman, P. M.; McNeil, A. J. Functionalized and Degradable Polyphthalaldehyde Derivatives. *J. Am. Chem. Soc.* **2019**, *141*, 14544–14548. DOI: [10.1021/jacs.9b07508](https://doi.org/10.1021/jacs.9b07508) (First appeared on ChemRxiv DOI: [0.26434/chemrxiv.8870324.v2](https://doi.org/10.26434/chemrxiv.8870324.v2).)
50. Wu, N.; Hall, A. O.; Phadke, S.; Zurcher, D. M.; Wallace, R. L.; Castaneda, C. A.; McNeil, A. J. Adapting Meaningful Learning Strategies for an Introductory Laboratory Course: Using Thin-Layer Chromatography to Monitor Reaction Progress. *J. Chem. Educ.* **2019**, *96*, 1873–1880. DOI: [10.1021/acs.jchemed.9b00256](https://doi.org/10.1021/acs.jchemed.9b00256)
49. Leone, A. K.; Dewyer, A. D.; Kubo, T.; Zimmerman, P. M.; McNeil, A. J. Toward One-pot Olefin/Thiophene Block Copolymer Synthesis using an In Situ Ligand Exchange. *J. Polym. Sci., Part A: Polym. Chem.* **2019**, *57*, 1061–1065. DOI: [10.1002/pola.29426](https://doi.org/10.1002/pola.29426)
48. Kong, C.; Song, B.; Mueller, E. A.; Kim, J.; McNeil, A. J. Random Copolymers Outperform Gradient and Block Copolymers in Stabilizing Organic Photovoltaics. *Adv. Funct. Mater.* **2019**, *29*, 1900467. DOI: [10.1002/adfm.201900467](https://doi.org/10.1002/adfm.201900467)

47. Leone, A. K.; Mueller, E. A.; McNeil, A. J. The History of Palladium-Catalyzed Cross-Couplings Should Inspire the Future of Catalyst-Transfer Polymerization. *J. Am. Chem. Soc.* **2018**, *140*, 15126–15139. DOI: [10.1021/jacs.8b09103](https://doi.org/10.1021/jacs.8b09103) (invited)
46. Lutz, J. P.; Hannigan, M. D.; McNeil, A. J. Polymers Synthesized via Catalyst-Transfer Polymerization and their Applications. *Coord. Chem. Rev.* **2018**, *376*, 225–247. DOI: [10.1016/j.ccr.2018.07.015](https://doi.org/10.1016/j.ccr.2018.07.015) (invited)
45. Leone, A. K.; Goldberg, P. K.; McNeil, A. J. Ring-walking in Catalyst-Transfer Polymerization. *J. Am. Chem. Soc.* **2018**, *140*, 7846–7850. DOI: [10.1021/jacs.8b02469](https://doi.org/10.1021/jacs.8b02469)
44. Vitek, A. K.; Leone, A. K.; McNeil, A. J.; Zimmerman, P. M. Spin-switching transmetalation at Ni diimine catalysts. *ACS Catal.* **2018**, *8*, 3655–3666. DOI: [10.1021/acscatal.7b03974](https://doi.org/10.1021/acscatal.7b03974)
43. Dong, B.X.; Smith, M. L.; Strzalka, J.; Li, H.; McNeil, A. J.; Stein, G. E.; Green, P. F. Molecular weight dependent structure and charge transport in MAPLE-deposited poly(3-hexylthiophene) thin films. *J. Polym. Sci. Part B.: Polym. Phys.* **2018**, *56*, 652–663. DOI: [10.1002/polb.24588](https://doi.org/10.1002/polb.24588)
42. Souther, K. D.; Leone, A. K.; Vitek, A. K.; Palermo, E. F.; LaPointe, A. M.; Coates, G. W.; Zimmerman, P. M.; McNeil, A. J. Trials and tribulations of designing multitasking catalysts for olefin/thiophene block copolymerizations. *J. Polym. Sci., Part A: Polym. Chem.* **2018**, *56*, 132–137. DOI: [10.1002/pola.28885](https://doi.org/10.1002/pola.28885)
41. Hall, A. O.; Lee, S. R.; Bloom, J. W. G.; Bootsma, A. N.; Wheeler, S. E.; McNeil, A. J. Reactive Ligand Influence on Initiation in Phenylene Catalyst-Transfer Polymerization. *J. Polym. Sci., Part A: Polym. Chem.* **2018**, *55*, 1530–1535. DOI: [10.1002/pola.28519](https://doi.org/10.1002/pola.28519)
40. Leone, A. K.; Souther, K. D.; Vitek, A. K.; LaPointe, A. M.; Coates, G. W.; Zimmerman, P. M.; McNeil, A. J. Mechanistic Insight into Thiophene Catalyst-Transfer Polymerization Mediated by Nickel Diimine Catalysts. *Macromolecules* **2017**, *50*, 9121–9127. DOI: [10.1021/acs.macromol.7b02271](https://doi.org/10.1021/acs.macromol.7b02271)
39. Leone, A. K.; McNeil, A. J. Matchmaking in Catalyst-Transfer Polycondensation: Optimizing Catalysts based on Mechanistic Insight. *Acc. Chem. Res.* **2016**, *49*, 2822–2831. DOI: [10.1021/acs.accounts.6b00488](https://doi.org/10.1021/acs.accounts.6b00488)
38. Smith, M. L.; Leone, A. K.; Zimmerman, P. M.; McNeil, A. J. Impact of Preferential π -Binding in Catalyst-Transfer Polycondensation of Thiazole Derivatives. *ACS Macro Lett.* **2016**, *5*, 1411–1415. DOI: [10.1021/acsmacrolett.6b00886](https://doi.org/10.1021/acsmacrolett.6b00886)
37. Li, Y.; Flener Lovitt, C.; McNeil, A. J.; Shuyler, K. Improving Information Literacy through Wikipedia Editing in the Chemistry Classroom: Lessons Learned. In *Integrating Information Literacy into the Chemistry Curriculum*; Flener Lovitt, C., Shuyler, K., Li, Y., Eds.; ACS Symposium Series 1232; American Chemical Society: Washington, DC, 2016; pp 247–264.
36. Zhao, Y.; Nett, A. J.; McNeil, A. J.; Zimmerman, P. M. Computational Mechanism for Initiation and Growth of Poly(3-hexylthiophene) Using Palladium N-Heterocyclic Carbene Precatalysts. *Macromolecules* **2016**, *49*, 7632–7641. DOI: [10.1021/acs.macromol.6b01648](https://doi.org/10.1021/acs.macromol.6b01648)

35. Zurcher, D. M.; Phadke, S.; Coppola, B. P.; McNeil, A. J. Using Student-Generated Instructional Materials to Customize an Online e-Homework Platform. *J. Chem. Educ.* **2016**, *93*, 1871–1878. DOI: [10.1021/acs.jchemed.6b00384](https://doi.org/10.1021/acs.jchemed.6b00384)
34. Veits, G. K.; Carter, K. K.; Cox, S. J. (undergraduate); McNeil, A. J. Developing a gel-based sensor using crystal morphology prediction. *J. Am. Chem. Soc.* **2016**, *138*, 12228–12233. DOI: [10.1021/jacs.6b06269](https://doi.org/10.1021/jacs.6b06269)
33. McNeil, A. J. My Maize and Blue Brick Road to Physical Organic Chemistry. *Beilstein J. Org. Chem.* **2016**, *12*, 229–238. DOI: [10.3762/bjoc.12.24](https://doi.org/10.3762/bjoc.12.24)
32. Bryan, Z. J.; Hall, A. O.; Zhao, C. T. (undergraduate); Chen, J.; McNeil, A. J. Limitations of Using Small Molecules to Identify Catalyst-transfer Polycondensation Reactions. *ACS Macro Lett.* **2016**, *5*, 69–72. DOI: [10.1021/acsmacrolett.5b00746](https://doi.org/10.1021/acsmacrolett.5b00746)
31. Amonoo, J. A.; Li, A.; Purdum, G. E.; Sykes, M. E.; Huang, B.; Palermo, E. F.; McNeil, A. J.; Shtein, M.; Loo, Y.-L.; Green, P. F. An All-Conjugated Gradient Copolymer Approach for Morphological Control of Polymer Solar Cells. *J. Mater. Chem. A* **2015**, *3*, 20174–20184. DOI: [10.1039/C5TA04752H](https://doi.org/10.1039/C5TA04752H)
30. Xiao, M.; Zhang, X.; Bryan, Z. J.; Jasensky, J.; McNeil, A. J.; Chen, Z. Effect of Solvent on Surface Ordering of Poly(3-hexylthiophene) Thin Films. *Langmuir* **2015**, *31*, 5050–5056. DOI: [10.1021/la504872z](https://doi.org/10.1021/la504872z)
29. Zurcher, D. M.; McNeil, A. J. Tools for Identifying New Gelator Scaffolds and Solvents. *J. Org. Chem.* **2015**, *80*, 2473–2478. (invited) DOI: [10.1021/jo502915w](https://doi.org/10.1021/jo502915w)
28. Palermo, E. F.; McNeil, A. J. Gradient Sequence π -Conjugated Copolymers. In *Sequence-Controlled Polymers: Synthesis, Self-Assembly, and Properties*; Lutz, J.-F., Meyer, T. Y., Ouchi, M., Sawamoto, M., Eds.; ACS Symposium Series 1170; American Chemical Society: Washington, DC, 2014; pp 287–299.
27. Zurcher, D. M.; Adhia, Y. J.; Díaz Romero, J. (undergraduate); McNeil, A. J. Modifying a Known Gelator Scaffold for Nitrite Detection. *Chem. Commun.* **2014**, *50*, 7813–7816. DOI: [10.1039/C4CC02504K](https://doi.org/10.1039/C4CC02504K)
26. Li, A.; Amonoo, J.; Huang, B.; Goldberg, P. K.; McNeil, A. J.; Green, P. F. Enhancing photovoltaic performance using an all-conjugated random copolymer to tailor bulk and interfacial morphology of the P3HT:ICBA active layer. *Adv. Funct. Mater.* **2014**, *24*, 5594–5602. DOI: [10.1002/adfm.201401058](https://doi.org/10.1002/adfm.201401058)
25. Berto, T.; Xu, N.; Lee, S. R.; McNeil, A. J.; Alp, E.; Zhao, J.; Richter-Addo, G.; Lehnert, N. Characterization of the Bridged Hyponitrite Complex $\{[\text{Fe}(\text{OEP})]_2(\mu\text{-N}_2\text{O}_2)\}$: Reactivity of Hyponitrite Complexes and Biological Relevance. *Inorg. Chem.* **2014**, *53*, 6398–6414. DOI: [10.1021/ic5002573](https://doi.org/10.1021/ic5002573)
24. Carter, K. K.; Rycenga, H. B. (undergraduate); McNeil, A. J. Improving Hg-triggered Gelation via Structural Modifications. *Langmuir* **2014**, *30*, 3522–3527. DOI: [10.1021/la404567b](https://doi.org/10.1021/la404567b)

23. Palermo, E. F.; Darling, S. B.; McNeil, A. J. π -Conjugated Gradient Copolymers Suppress Phase Separation and Improve Stability in Bulk Heterojunction Solar Cells. *J. Mater. Chem. C* **2014**, *2*, 3401–3406. DOI: [10.1039/C3TC32512A](https://doi.org/10.1039/C3TC32512A)
22. Bremmer, S. C.; McNeil, A. J.; Soellner, M. B. Enzyme-triggered Gelation: Targeting Proteases with Internal Cleavage Sites. *Chem. Commun.* **2014**, *50*, 1691–1693. DOI: [10.1039/C3CC48132H](https://doi.org/10.1039/C3CC48132H)
21. Bryan, Z. J.; McNeil, A. J. Conjugated Polymer Synthesis via Catalyst-transfer Polycondensation (CTP): Mechanism, Scope and Applications. *Macromolecules* **2013**, *46*, 8395–8405. (Invited Perspective) DOI: [10.1021/ma401314x](https://doi.org/10.1021/ma401314x)
20. Palermo, E. F.; van der Laan, H. L. (undergraduate); McNeil, A. J. Impact of π -Conjugated Gradient Sequence Copolymers on Polymer Blend Morphology. *Polym. Chem.* **2013**, *4*, 4606–4611. DOI: [10.1039/C3PY00601H](https://doi.org/10.1039/C3PY00601H)
19. Bryan, Z. J.; McNeil, A. J. Evidence for a Preferential Intramolecular Oxidative Addition in Ni-catalyzed Cross-coupling Reactions and their Impact on Chain-growth Polymerizations. *Chem. Sci.* **2013**, *4*, 1620–1624. DOI: [10.1039/C3SC00090G](https://doi.org/10.1039/C3SC00090G)
18. Lee, S. R.; McNeil, A. J. Accelerating Ni(II) Precatalyst Initiation using Reactive Ligands and its Impact on Chain-growth Polymerizations. *Dalton Trans.* **2013**, *42*, 4218–4222. DOI: [10.1039/C2DT32735J](https://doi.org/10.1039/C2DT32735J)
17. Palermo, E. F.; McNeil, A. J. Impact of Copolymer Sequence on Solid-state Properties for Random, Gradient, and Block Copolymers containing Thiophene and Selenophene. *Macromolecules* **2012**, *45*, 5948–5955. DOI: [10.1021/ma301135n](https://doi.org/10.1021/ma301135n)
16. Chen, J.; Wu, W. (undergraduate); McNeil, A. J. Detecting a Peroxide-based Explosive via Molecular Gelation. *Chem. Commun.* **2012**, *48*, 7310–7312. DOI: [10.1039/C2CC33486K](https://doi.org/10.1039/C2CC33486K)
15. Bremmer, S. C.; Chen, J.; McNeil, A. J.; Soellner, M. B. A General Method for Detecting Protease Activity via Gelation and its Application to Artificial Clotting. *Chem. Commun.* **2012**, *48*, 5482–5484. DOI: [10.1039/C2CC31537H](https://doi.org/10.1039/C2CC31537H)
14. Bryan, Z. J.; Smith, M. L.; McNeil, A. J. Chain-growth Polymerization of Aryl Grignards Initiated by a Stabilized NHC-Pd Precatalyst. *Macromol. Rapid Commun.* **2012**, *33*, 842–847. DOI: [10.1002/marc.201200096](https://doi.org/10.1002/marc.201200096)
- Highlighted on *MaterialsView* on April 12, 2012.
 - Highlighted on *MaterialsView* on May 11, 2012.
13. Lee, S. R.; Bryan, Z. J.; Wagner, A. M.; McNeil, A. J. Effect of Ligand Electronic Properties on Precatalyst Initiation and Propagation in Ni-catalyzed Cross-coupling Polymerizations. *Chem. Sci.* **2012**, *3*, 1562–1566. DOI: [10.1039/C2SC00005A](https://doi.org/10.1039/C2SC00005A)
12. McNeil, A. J.; Lanni, E. L. New Conjugated Polymers and Synthetic Methods. In *Synthesis of Polymers*; Schlüter, D. A., Hawker, C. J., Sakamoto, J., Eds; Wiley-VCH: Germany, 2012; Vol 1, pp 475–486.

11. Adhia, Y. J.; Schloemer, T. H. (undergraduate); Perez, M. T. (undergraduate); McNeil, A. J. Using Polymeric Additives to Enhance Molecular Gelation: Impact of Poly(acrylic acid) on Pyridine-based Gelators. *Soft Matter* **2012**, *8*, 430–434. DOI: [10.1039/C1SM06580G](https://doi.org/10.1039/C1SM06580G)
10. Muro-Small, M. L.; Chen, J.; McNeil, A. J. Dissolution Parameters Reveal Role of Structure and Solvent in Molecular Gelation. *Langmuir* **2011**, *27*, 13248–13253. DOI: [10.1021/la202702r](https://doi.org/10.1021/la202702r)
9. Moy, C. L.; Kaliappan, R.; McNeil, A. J. Aryl Trihydroxyborate Salts: Thermally Unstable Species with Unusual Gelation Abilities. *J. Org. Chem.* **2011**, *76*, 8501–8507. DOI: [10.1021/jo201353j](https://doi.org/10.1021/jo201353j)
8. Lanni, E. L.; Locke, J. R.; Gleave, C. M. (undergraduate); McNeil, A. J. Ligand-based Steric Effects in Ni-catalyzed Chain-growth Polymerizations using Bis(dialkylphosphino)ethanes. *Macromolecules* **2011**, *44*, 5136–5145. DOI: [10.1021/ma200976f](https://doi.org/10.1021/ma200976f)
7. Locke, J. R.; McNeil, A. J. Syntheses of Gradient π -Conjugated Copolymers of Thiophene. *Macromolecules* **2010**, *43*, 8709–8710. DOI: [10.1021/ma102218y](https://doi.org/10.1021/ma102218y)
6. Lanni, E. L.; McNeil, A. J. Evidence for Ligand-Dependent Mechanistic Changes in Ni-catalyzed Chain-growth Polymerizations. *Macromolecules* **2010**, *43*, 8039–8044. DOI: [10.1021/ma101565u](https://doi.org/10.1021/ma101565u)
5. Moy, C. L.; Locke, J. R.; Coppola, B. P.; McNeil, A. J. Improving Science Education and Understanding through Editing Wikipedia. *J. Chem. Educ.* **2010**, *87*, 1159–1162. DOI: [10.1021/ed100367v](https://doi.org/10.1021/ed100367v)
 - Highlighted in *Science*: **2010**, *330*, 891.
4. Chen, J.; Kampf, J. W.; McNeil, A. J. Comparing Molecular Gelators and Nongelators based on Solubilities and Solid-state Interactions. *Langmuir* **2010**, *26*, 13076–13080. DOI: [10.1021/la102500u](https://doi.org/10.1021/la102500u)
3. King, K. N.; McNeil, A. J. Streamlined Approach to a New Gelator: Inspiration from Solid-state Interactions for a Mercury-Induced Gelation. *Chem. Commun.* **2010**, *46*, 3511–3513. DOI: [10.1039/C002081H](https://doi.org/10.1039/C002081H)
2. Lanni, E. L.; McNeil, A. J. Mechanistic Studies on Ni(dppe)Cl₂-catalyzed Chain-growth Polymerizations: Evidence for Rate-Determining Reductive Elimination. *J. Am. Chem. Soc.* **2009**, *131*, 16573–16579. DOI: [10.1021/ja904197q](https://doi.org/10.1021/ja904197q)
1. Chen, J.; McNeil, A. J. Analyte-Triggered Gelation: Initiating Self-Assembly via Oxidation-Induced Planarization. *J. Am. Chem. Soc.* **2008**, *130*, 16496–16497. DOI: [10.1021/ja807651a](https://doi.org/10.1021/ja807651a)
 - Highlighted in *Chemical and Engineering News*: **2009**, *87*(13), 28.
 - Highlighted in *Chemistry World*: **2009**, *6*(5), 8.

RESEARCH PUBLICATIONS (BEFORE MICHIGAN)

11. Wheeler, S. E.; McNeil, A. J.; Müller, P.; Swager, T. M.; Houk, K. N. Probing Substituent Effects in Aryl-Aryl Interactions Using Stereoselective Diels-Alder Cycloadditions. *J. Am. Chem. Soc.* **2010**, *132*, 3304–3311.
10. Liou, L. R.; McNeil, A. J.; Toombes, G. E. S.; Collum, D. B. Structures of β -Amino Ester Enolates: New Strategies using the Method of Continuous Variation. *J. Am. Chem. Soc.* **2008**, *130*, 17334–17341.

9. Gruver, J. M.; Liou, L. R.; McNeil, A. J.; Ramírez, A.; Collum, D. B. Solution Structures of Lithium Enolates, Phenolates, Carboxylates, and Alkoxides in the Presence of *N,N,N',N'*-Tetramethylethylenediamine: A Prevalence of Cyclic Dimers. *J. Org. Chem.* **2008**, *73*, 7743–7747.
8. Liou, L. R.; McNeil, A. J.; Ramírez, A.; Toombes, G. E. S.; Gruver, J. M.; Collum, D. B. Lithium Enolates of Simple Ketones: Structure Determination Using the Method of Continuous Variation. *J. Am. Chem. Soc.* **2008**, *130*, 4859–4868.
7. Collum, D. B.; McNeil, A. J.; Ramírez, A. Lithium Diisopropylamide: Solution Kinetics and Implications for Organic Synthesis. *Angew. Chem. Int. Ed.* **2007**, *46*, 3002–3017.
6. McNeil, A. J.; Müller, P.; Whitten, J. E.; Swager, T. M. Conjugated Polymers in an Arene Sandwich. *J. Am. Chem. Soc.* **2006**, *128*, 12426–12427.
5. McNeil, A. J.; Collum, D. B. Reversible Enolization of β -Amino Carboxamides by Lithium Hexamethyldisilazide. *J. Am. Chem. Soc.* **2005**, *127*, 5655–5661.
4. McNeil, A. J.; Toombes, G. E. S.; Gruner, S. M.; Lobkovsky, E.; Collum, D. B.; Chandramouli, S. V.; Vanasse, B. J.; Ayers, T. A. Diastereoselective Alkylation of β -Amino Esters: Structural and Rate Studies Reveal Alkylations of Hexameric Lithium Enolates. *J. Am. Chem. Soc.* **2004**, *126*, 16559–16568.
3. McNeil, A. J.; Toombes, G. E. S.; Chandramouli, S. V.; Vanasse, B. J.; Ayers, T. A.; O'Brien, M. K.; Lobkovsky, E.; Gruner, S. M.; Marohn, J. A.; Collum, D. B. Characterization of β -Amino Ester Enolates as Hexamers via ^6Li NMR Spectroscopy. *J. Am. Chem. Soc.* **2004**, *126*, 5938–5939.
2. McNeil, A. J.; Hinkle, R. J.; Rouse, E. A.; Thomas, Q. A.; Thomas, D. B. Vinyl Carbocations: Solution Studies of Alkenyl(aryl)iodonium Triflate Fragmentations. *J. Org. Chem.* **2001**, *66*, 5556–5565.
1. Hinkle, R. J.; McNeil, A. J.; Thomas, Q. A.; Andrews, M. N. Primary Vinyl Cations in Solution: Kinetics and Products of β,β -Disubstituted Alkenyl(aryl)iodonium Triflate Fragmentations. *J. Am. Chem. Soc.* **1999**, *121*, 7437–7438.