

MATTHEW J. MIO

Born 4 November 1974

OFFICE ADDRESS

University of Detroit Mercy
Department of Chemistry and Biochemistry
4001 West McNichols Road
Detroit, MI 4821-3038
phone: 313.993.1188
fax: 313.993.1144
miomj@udmercy.edu

EDUCATION AND RESEARCH EXPERIENCE

- 2003 Assistant Professor, Department of Chemistry and Biochemistry
University of Detroit Mercy, Detroit, MI
- 2002 Instructor, Department of Chemistry and Biochemistry
University of Detroit Mercy, Detroit, MI
- 2001 Mellon Postdoctoral Fellow, Department of Chemistry
Macalester College, St. Paul, MN
Research: *I. Regiocontrolled Synthesis of CpCo-Cyclobutadienyl-Bridged Cyclophanes by Annulation of Acyclic Diynes II. One-Pot Synthesis of Symmetrical and Unsymmetrical Bisarylethynes by a Modification of the Sonogashira Coupling Reaction*
Advisor: Prof. Ronald G. Brisbois
- 2001 Ph.D., Organic Chemistry
University of Illinois at Urbana-Champaign, Urbana, IL
Thesis: *Hexagonally-Packed Helical Oligo(m-Phenylene Ethynylene) Nanotubules via Structural Modification and Guest Templatation*
Advisor: Prof. Jeffrey S. Moore
- 1997 B.S., Chemistry
University of Detroit Mercy, Detroit, MI
Undergraduate Research: *Synthesis and Characterization of Polymers Containing Thiophene-Derived Side Chains for Optical Data Storage*
Advisor: Prof. Kevin D. Belfield
- 1996 National Science Foundation Research Experience for Undergraduates
Michigan State University, East Lansing, MI
Undergraduate Research: *Synthesis and Characterization of Di-n-alkyl Poly(p-Phenylene)s*
Advisor: Prof. Gregory L. Baker

TEACHING EXPERIENCE

Faculty (2003-present)

Courses: Organic Chemistry I and II; Organic Chemistry Laboratory I and II; Forensic Chemistry (University of Detroit Mercy)

Instructor (2002-2003)

Courses: Principles of Nursing Chemistry I and II; General Chemistry II; Organic Chemistry I and II (University of Detroit Mercy)

Instructor (2001-2002)

Courses: Advanced Organic Chemistry – Supramolecular Chemistry; Fundamentals of Organic Chemistry Lab II (with R. G. Brisbois, Macalester College); Fundamentals of Organic Chemistry Lab I (with R. G. Brisbois, Macalester College)

Graduate Teaching Assistant (1997-1999)

Courses: Pre-Medical Organic Chemistry (with J. S. Moore, Univ. of Illinois); Fundamental Organic Chemistry I (with T. J. Wilkinson, Univ. of Illinois); General Chemistry I (with T. J. Hummel, Univ. of Illinois)

PROFESSIONAL MEMBERSHIPS AND SERVICE

Detroit Area Pre-College Engineering Program

American Chemical Society (ACS) – Education and Organic Divisions

Detroit Section of the American Chemical Society – Education Committee Chair

Michigan College Chemistry Teacher's Association – President (2004-2005)

Referee for *Journal of the American Chemical Society*, *Journal of Chemical Education*, *The Chemical Educator*, *Organic Letters*, *Journal of Organic Chemistry*, American Chemical Society Petroleum Research Fund

American Association for the Advancement of Science

HONORS AND AWARDS

2007/06	UDM Faculty Excellence Awards Nominee
2005	UDM College of Engineering and Science Arthur C. Haman Service Award
2005	UDM College of Engineering and Science Faculty of the Year (Science) Nominee
2001	Mellon Fellow, Macalester College Dept. of Chemistry
2001/00	Carl Shipp Marvel Fellow, Univ. of Illinois Dept. of Chemistry
2001/00/99	Univ. of Illinois, Dept. of Chemistry Graduate Student Advisory Committee, Organic Division Representative
1998/97	Excellent Rating, University of Illinois Teaching Evaluations
1998	Honorable Mention, U. S. Department of Defense Graduate Fellowship
1997	Detroit Section of the ACS Outstanding Chemist Award
1997	Science Student of the Year, UDM College of Engineering and Science
1997	Department of Chemistry and Biochemistry Student Service Award
1997/96/95/94	President, UDM Chemistry Club, (ACS Student Affiliate)
1996	UDM Undergraduate Analytical Chemistry Award
1994	Chemical Rubber Company Freshman Chemistry Award

RESEARCH INTERESTS

Shape-persistent oligomers and macromolecules; Supramolecular organization and assembly; Foldamers; Phenylacetylene chemistry; Organic and general chemistry curriculum development

PEDAGOGICAL PRESENTATIONS (* denotes undergraduate student)

19. *Hamlin, A. M.; *Cullen, L. R.; Lanigan, K. C.; Mio, M. J. "The State of Green Chemistry at the University of Detroit Mercy," *Abstract of Papers*, 234th National Meeting of the American Chemical Society, Boston, MA, August 19-23, 2007; American Chemical Society: Washington, DC, 2007; CHED 124.

18. *Vos, B. P.; *Cullen, L. R.; *Heidt, J. A.; Lanigan, K. C.; Benvenuto, M. A.; Mio, M. J. "A Green Chemistry Poster Session Among Thanksgiving Holiday Festivities," *Abstract of Papers*, 233rd National Meeting of the American Chemical Society, Chicago, IL, March 25-29, 2007; American Chemical Society: Washington, DC, 2007; CHED 1573.

17. Mio, M. J. "Preparing for Chemical Graduate School," *Undergraduate Program*, 37th Great Lakes Regional Meeting of the American Chemical Society, Milwaukee, WI, May 31 - June 3, 2006; American Chemical Society: Washington, DC, 2006.

16. *Heidt, J. A.; *Hinshaw, A. D.; *Katynski, K.; *Labut, A. E.; *Mouyianis, M.; *DeHaan, P. A.; *Pauly, K. R.; Benvenuto, M. A.; Lanigan, K. C.; Mio, M. J., Roberts-Kirchhoff, E. S. "Girl Scouts and National Chemistry Week: A Local Section and Student Affiliate Collaboration," *Abstract of Papers*, 231st National Meeting of the American Chemical Society, Atlanta, GA, March 26-30, 2006; American Chemical Society: Washington, DC, 2006; CHED 1171.

15. *Mouyianis, M.; *Hornik-Rosinski, V.; *Dagher, B. S.; *Labut, A. E.; Mio, M. J. "Safety Street: Halloween and Chemical Education," *Abstract of Papers*, 231st National Meeting of the American Chemical Society, Atlanta, GA, March 26-30, 2006; American Chemical Society: Washington, DC, 2006; CHED 1191.

14. Mio, M. J. "Graduate School Reality Check," *Undergraduate Program*, 231st National Meeting of the American Chemical Society, Atlanta, GA, March 26-30, 2006; American Chemical Society: Washington, DC, 2006.

13. Mio, M. J. (Panelist) "Graduate School Reality Check," *Undergraduate Program*, 230th National Meeting of the American Chemical Society, Washington, DC, August 29-31, 2005; American Chemical Society: Washington, DC, 2005.
12. *Manes, K. M.; *Mouyianis, M.; *Hornik-Rosinski, V.; Mio, M. J.; Benvenuto, M. A. "A Student Affiliate-Managed Laboratory Experience for Earning Girl and Boy Scout Chemistry Merit Badges," *Abstract of Papers*, 229th National Meeting of the American Chemical Society, San Diego, CA, March 13-17, 2005; American Chemical Society: Washington, DC, 2005; CHED 1222.
11. *Manes, K. M.; *Spranger, T. M.; Sumner, A. N.; Mio, M. J. "A Team-Building for Student Affiliates," *Abstract of Papers*, 229th National Meeting of the American Chemical Society, San Diego, CA, March 13-17, 2005; American Chemical Society: Washington, DC, 2005; CHED 1221.
10. Mio, M. J.; Benvenuto, M. A. "Safe Organic Chemistry for High School Learners," Michigan Science Teachers Association 52nd Annual Conference, Detroit, MI, March 5, 2005.
9. Mio, M. J. "Teaching Postdocs: How to Ensnare the Rarest Beast," Department of Chemistry Careers in Academia Seminar, University of Illinois, Urbana, IL, March 1, 2004.
8. Gambini, J.; Gross, K.; Adelini, G.; Jackson, M.; Jenkins, E.; Samluk, M.; Stairs, J.; Mio, M. J.; Benvenuto, M. A. "Cross-Disciplinary Perspective for Math and Science - Inclusionary for Diverse Student Populations," *Abstract of Papers*, 215th National Meeting of the American Chemical Society, Dallas, TX, March 29-April 2, 1998; American Chemical Society: Washington, DC, 2001; CHED 054.
7. Schafer, K.; Mio, M. J.; Juncaj, J.; Belfield, K. D. "The Chemical World - A CISA Junior High School Student Outreach Project," *Abstract of Papers*, 213th National Meeting of the American Chemical Society, San Francisco, CA, April 13-17, 1997; American Chemical Society: Washington, DC, 2001; CHED 668.
6. Schafer, K.; Mio, M. J.; Prudhomme, D.; Belfield, K. D. "Fun With Chemistry - UDM Chemistry Club's Mole Day and Magic Shows," *Abstract of Papers*, 213th National Meeting of the American Chemical Society, San Francisco, CA, April 13-17, 1997; American Chemical Society: Washington, DC, 2001; CHED 667.
5. Mio, M. J.; Barlaskar, N.; Carmody, C. J.; Langrill, R. L.; McMahon, C. R.; Schafer, K.; Tyrybon, F. J.; Belfield, K. D. "Mole Day - A Wet and Wild Celebration of Chemistry," *Abstract of Papers*, 211th National Meeting of the American Chemical Society, New Orleans, LA, March 24-28, 1996; American Chemical Society: Washington, DC, 2001; CHED 364.
4. Mio, M. J.; Belfield, K. D. "Chemistry Magic Shows - Participation is the Name of the Game," *Abstract of Papers*, 211th National Meeting of the American Chemical Society, New Orleans, LA, March 24-28, 1996; American Chemical Society: Washington, DC, 2001; CHED 363.
3. Mio, M. J.; Carmody, C. J.; Hermosillo, F.; Langrill, R. L.; McMahon, C. R.; Taylor, S. J.; Tyrybon, F. J.; Belfield, K. D. "A Mole Day Contest and Celebration," *Abstract of Papers*, 210th National Meeting of the American Chemical Society, New Orleans, LA, August 20-24, 1995; American Chemical Society: Washington, DC, 2001; CHED 228.
2. Mio, M. J.; Hermosillo, F.; Langrill, R. L.; Schafer, K.; Wilson, Z.; Belfield, K. D. "Community Impact Through Chemical Demonstrations - A CISA Project," *Abstract of Papers*, 210th National Meeting of the American Chemical Society, New Orleans, LA, August 20-24, 1995; American Chemical Society: Washington, DC, 2001; CHED 226.
1. Mio, M. J.; Belfield, K. D. "A New Difunctional Anionic Polymerization Initiator," *Abstract of Papers*, 210th National Meeting of the American Chemical Society, New Orleans, LA, August 20-24, 1995; American Chemical Society: Washington, DC, 2001; CHED 165.

INVITED PRESENTATIONS

4. Mio, M. J. "Improved Synthesis of Arylethynylenes and Arylbutadiynes Utilizing an in situ Ethynylsilane Deprotection Reaction," Department of Chemistry, Andrews University, Berrien Springs, MI, February 23, 2006.
3. Mio, M. J. "Improved Synthesis of Arylethynylenes and Arylbutadiynes Utilizing an in situ Ethynylsilane Deprotection Reaction," Department of Chemistry, Grand Valley State University, Allendale, MI, September 16, 2005.

2. Mio, M. J. "Improved Synthesis of Arylethynyls and Arylbutadiynes Utilizing an in situ Ethynylsilane Deprotection Reaction," Department of Chemistry, Oakland University, Rochester, MI, January 26, 2005.

1. Mio, M. J. "Improved Synthesis of Arylethynyls and Arylbutadiynes Utilizing an in situ Ethynylsilane Deprotection Reaction," Department of Chemistry, Michigan State University, East Lansing, MI, July 14, 2004.

RESEARCH PRESENTATIONS (* denotes undergraduate research student)

23. *Martinez, S.; Ward, A. L.; Yaldou, B. J.; Mio, M. J. "Orthogonal silane protecting group methods for modified Sonogashira couplings," *Abstract of Papers*, 40th National Organic Chemistry Symposium, Durham, NC, June 3-7, 2007; Duke University: Durham, NC, 2007; C30.

22. *Cullen, L. R.; *Gianino, J. B.; *Hamlin, A. M.; *Heidt, J. A.; *Vos, B. R.; Mio, M. J. "Modified Glaser-type homocouplings: One-pot synthesis of symmetrical bisarylbutadiynes using 1,5-diazabicyclo[4.3.0]non-5-ene (DBN), CuI and water," *Abstract of Papers*, 40th National Organic Chemistry Symposium, Durham, NC, June 3-7, 2007; Duke University: Durham, NC, 2007; A59.

21. *Dagher, B. S.; *Heidt, J. A.; Hinshaw, A. D.; Vos, B. P.; Mio, M. J. "Incorporation of an in situ ethynylsilane deprotection utilizing amidine bases, copper (I) iodide and water into Sonogashira- and Glaser-type coupling reactions," *Abstract of Papers*, 233rd National Meeting of the American Chemical Society, Chicago, IL, March 25-29, 2007; American Chemical Society: Washington, DC, 2007; ORGN 28.

20. *Dagher, B. S.; *Heidt, J. A.; Hinshaw, A. D.; Vos, B. P.; Mio, M. J. "Incorporation of an in situ ethynylsilane deprotection utilizing amidine bases, copper (I) iodide and water into Sonogashira- and Glaser-type coupling reactions," *Abstract of Papers*, 2007 Meeting of Student Affiliates of the Detroit Section of the American Chemical Society, University of Detroit Mercy, Detroit, MI, March 23, 2007.

19. *Brooks, A. F.; *Dagher, B. S.; *Guina, J. P.; *Labut, A. E.; Mio, M. J.; *Ball, N. D.; *Marlier, E. E.; Brisbois, R. G. "One-Pot Synthesis of Symmetrical Bisarylethynes Using Bis(trimethylsilyl)acetylene and a Modification of the Sonogashira Coupling," *Abstract of Papers*, 231st National Meeting of the American Chemical Society, Atlanta, GA, March 26-30, 2006; American Chemical Society: Washington, DC, 2006; ORGN 315.

18. *Brooks, A. F.; *Dagher, B. S.; *Davidovich, I. Z.; *Guina, J. P.; *Heidt, J. A.; *Hinshaw, A. D.; *Labut, A. E.; *Pember, A. D.; *Vos, B. P.; Mio, M. J. "Ethynylsilane Deprotection Utilizing 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU), Copper (I) Iodide and Water," *Abstract of Papers*, 231st National Meeting of the American Chemical Society, Atlanta, GA, March 26-30, 2006; American Chemical Society: Washington, DC, 2006; ORGN 316.

17. *Brooks, A. F.; *Dagher, B. S.; *Guina, J. P.; *Labut, A. E.; Mio, M. J.; *Ball, N. D.; *Marlier, E. E.; Brisbois, R. G. "One-Pot Synthesis of Symmetrical Bisarylethynes Using Bis(trimethylsilyl)acetylene and a Modification of the Sonogashira Coupling," *Abstract of Papers*, University of Detroit Mercy College of Engineering and Science Seventh Annual Undergraduate Research Colloquium, Detroit, MI, April 12, 2006.

16. *Brooks, A. F.; *Dagher, B. S.; *Davidovich, I. Z.; *Guina, J. P.; *Heidt, J. A.; *Hinshaw, A. D.; *Labut, A. E.; *Pember, A. D.; *Vos, B. P.; Mio, M. J. "Ethynylsilane Deprotection Utilizing 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU), Copper (I) Iodide and Water," *Abstract of Papers*, University of Detroit Mercy College of Engineering and Science Seventh Annual Undergraduate Research Colloquium, Detroit, MI, April 12, 2006.

15. *Brooks, A. F.; *Dagher, B. S.; *Guina, J. P.; *Labut, A. E.; Mio, M. J.; *Ball, N. D.; *Marlier, E. E.; Brisbois, R. G. "One-Pot Synthesis of Symmetrical Bisarylethynes Using Bis(trimethylsilyl)acetylene and a Modification of the Sonogashira Coupling," *Abstract of Papers*, 2006 Meeting of Student Affiliates of the Detroit Section of the American Chemical Society, Oakland University, Rochester, MI, March 17, 2006.

14. *Brooks, A. F.; *Dagher, B. S.; *Davidovich, I. Z.; *Guina, J. P.; *Heidt, J. A.; *Hinshaw, A. D.; *Labut, A. E.; *Pember, A. D.; *Vos, B. P.; Mio, M. J. "Ethynylsilane Deprotection Utilizing 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU), Copper (I) Iodide and Water," *Abstract of Papers*, 2006 Meeting of Student Affiliates of the Detroit Section of the American Chemical Society, Oakland University, Rochester, MI, March 17, 2006.

13. Hinshaw, A. D.; Mio, M. J. "Ethyne-silane Deprotection Utilizing 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU), Copper (I) Iodide and Water," 2006 Clare Boothe Luce Scholarship Symposium, University of Detroit Mercy, Detroit, MI, March 14, 2006.
12. *Brooks, A. F.; *Dagher, B. S.; *Guina, J. P.; *Heidt, J. A.; *Hinshaw, A. D.; *Labut, A. E.; Mio, M. J. "Improved Synthesis of Arylethynyls and Arylbutadiynes Utilizing an in situ Ethyne-silane Deprotection Reaction," University of Detroit Mercy Department of Chemistry and Biochemistry Summer Research Symposium, Detroit, MI, September 8, 2005.
11. *Hinshaw, A. D.; Mio, M. J. "Rapid Synthesis of Complex Arylethynylene-butadiyne Oligomers Utilizing an in situ Ethyne-silane Deprotection Reaction," Michigan Eastern Regional Center for Undergraduate Research in Chemistry (MERCURIC) Symposium, Oakland University Department of Chemistry, Rochester, MI, July 15, 2005.
10. *Brooks, A. F.; *Dagher, B. S.; *Guina, J. P.; *Heidt, J. A.; *Hinshaw, A. D.; *Labut, A. E.; Mio, M. J. "Improved Synthesis of Arylethynyls and Arylbutadiynes Utilizing an in situ Ethyne-silane Deprotection Reaction," *Abstract of Papers*, 39th National Organic Chemistry Symposium, Salt Lake City, UT, June 12-16, 2005; University of Utah: Salt Lake City, UT, 2005; A30.
9. *Brooks, A. F.; *Dagher, B. S.; *Guina, J. P.; *Labut, A. E.; Mio, M. J. "Improved Synthesis of Arylbutadiynes Utilizing an In Situ Ethyne-silane Deprotection Reaction," *Abstract of Papers*, 2005 SHARE Faculty Scholarship Symposium, University of Detroit Mercy, Detroit, MI, March 24, 2005.
8. *Brooks, A. F.; *Dagher, B. S.; *Guina, J. P.; *Labut, A. E.; Mio, M. J. "Improved Synthesis of Arylbutadiynes Utilizing an In Situ Ethyne-silane Deprotection Reaction," *Abstract of Papers*, 229th National Meeting of the American Chemical Society, San Diego, CA, March 13-17, 2005; American Chemical Society: Washington, DC, 2005; ORGN 495.
7. *Brooks, A. F.; *Dagher, B. S.; *Guina, J. P.; *Labut, A. E.; Mio, M. J. "Improved Synthesis of Arylbutadiynes Utilizing an In Situ Ethyne-silane Deprotection Reaction," *Abstract of Papers*, 2005 Meeting of Student Affiliates of the Detroit Section of the American Chemical Society and University of Detroit Mercy College of Engineering and Science Sixth Annual Undergraduate Research Colloquium, Detroit, MI, March 4, 2005.
6. *Dagher, B. S.; *Guina, J. P.; Mio, M. J. "Improved Synthesis of Arylethynyls and Arylbutadiynes Utilizing an in situ Ethyne-silane Deprotection Reaction," University of Detroit Mercy Department of Chemistry and Biochemistry Summer Research Symposium, Detroit, MI, September 9, 2004.
5. *Brooks, A. F.; *Labut, A. E.; Mio, M. J. "Modifications to the Sonogashira Cross-Coupling Reaction," *Abstract of Papers*, University of Detroit Mercy College of Engineering and Science Fifth Annual Undergraduate Research Colloquium, Detroit, MI, April 2, 2004.
4. *Brooks, A. F.; *Labut, A. E.; Mio, M. J. "Modifications to the Sonogashira Cross-Coupling Reaction," *Abstract of Papers*, 2004 Meeting of Student Affiliates of the Detroit Section of the American Chemical Society, Oakland University, Rochester, MI, March 26, 2004.
3. Kübel, C.; Mio, M. J.; Moore, J. S.; Martin, D. C. "LD-HREM Analysis of the Molecular Packing and Morphology of Phenylene Ethynylene Foldamers," *Abstract of Papers*, European Polymer Conference, Eindhoven, The Netherlands, July 8-12, 2001.
2. Mio, M. J.; Moore, J. S. "Templating Nanotubular Hexagonal Packing of Helical Oligo(*m*-Phenylene Ethynylene) Foldamers," *Abstract of Papers*, 221st National Meeting of the American Chemical Society, San Diego, CA, April 1-5, 2001; American Chemical Society: Washington, DC, 2001; ORGN 689.
1. Mio, M. J. "Soft Lithography: Methods and Applications for Organic Surface Chemistry" *Organic Seminar Abstracts 1998-1999 Semester II*, University of Illinois; Urbana, IL. 1999, pp. 81-88.

PUBLICATIONS (* denotes undergraduate research student)

20. *Cullen, L. R.; *Vos, B. P.; Lanigan, K. C.; Mio, M. J. "Cultivating Leadership and Membership: Unique Solutions to Common Problems." *In Chemistry* 2007, 16, 5-6.

19. *Pedagogical Advances in Teaching Chemistry at the Undergraduate Level*, Proceedings of the Michigan College Chemistry Teachers Association, Detroit, MI, November 18, 2006; Benvenuto, M. A.; Mio, M. J., Eds.; Mark A. Benvenuto: Detroit, 2006.
18. Mio, M. J. CSI: Detroit – Can Pop Culture Make Chemistry Relevant To Students? *Chimica Oggi (Chemistry Today)* **2006**, *24*, 2-3.
17. *What Class Work and Activities Were Useful to You in Professional School?*, Proceedings of the Michigan College Chemistry Teachers Association, Detroit, MI, November 5, 2005; Benvenuto, M. A.; Mio, M. J., Eds.; Mark A. Benvenuto: Detroit, 2005.
16. Benvenuto, M. A.; Mio, M. J. Teaching Chemistry in the United States, Post 9/11. *Thought and Action* **2005**, *21*, 133-138.
15. Mio, M. J.; Benvenuto, M. A. Safe, Easy, Quick and Inexpensive Organic Chemistry Labs for High School Learners. *MSTA Journal* **2005**, *50*, 28-30.
14. *What Should Students Do to Help Them Get into Medical, Dental, Pharmacy or Veterinary School?*, Proceedings of the Michigan College Chemistry Teachers Association, Detroit, MI, November 6, 2004; Benvenuto, M. A.; Mio, M. J., Eds.; Mark A. Benvenuto: Detroit, 2004.
13. *What's Essential? The Chemistry Topics Taught in Community Colleges*, Proceedings of the Michigan College Chemistry Teachers Association, Detroit, MI, November 1, 2003; Benvenuto, M. A.; Mio, M. J., Eds.; Mark A. Benvenuto: Detroit, 2003.
12. Mio, M. J. You Can Go Home Again: Study Groups, a Caring Advisor, and a Teaching Postdoc. In *And Gladly Teach: A Resource Book for Chemists Considering Academic Careers*; Schwartz, A. T., Archer R. D., El-Ashmawy, A. K., Lavallee, D. K., Eikey, R., Eds.; American Chemical Society: Washington, DC, 2003; pp 25-26.
11. *What Does Industry Want from Chemistry Graduates?*, Proceedings of the Michigan College Chemistry Teachers Association, Detroit, MI, November 9, 2002; Benvenuto, M. A.; Mio, M. J., Eds.; Mark A. Benvenuto: Detroit, 2002.
10. Mio, M. J.; Kopel, L. C.; *Braun, J. B.; *Gadzikwa, T. L.; *Hull, K. L.; Brisbois, R. G.; Markworth, C. J.; Grieco, P. A. One-Pot Synthesis of Symmetrical and Unsymmetrical Bisarylethynes by a Modification of the Sonogashira Coupling Reaction. *Org. Lett.* **2002**, *4*, 3199-3202.
9. Kübel, C. K.; Mio, M. J.; Martin, D. C.; Moore, J. S. Molecular Packing and Morphology of Oligo(*m*-phenylene ethynylene) Foldamers. *J. Am. Chem. Soc.* **2002**, *124*, 8605-8610.
8. Hill, D. J.; Mio, M. J.; Prince, R. B.; Hughes, T. S.; Moore, J. S. A Field Guide to Foldamers. *Chem. Rev.* **2001**, *101*, 3893-4012.
7. Zhu, A.; Mio, M. J.; Moore, J. S.; Drickamer, H. G. Effect of Pressure on the Conformation of Two Oligo (*m*-Phenylene Ethynylene) Foldamers Containing a Piperazine or Terpene Derivative as Guest. *J. Phys. Chem. B.* **2001**, *105*, 12374-12377.
6. Zhu, A.; Mio, M. J.; Moore, J. S.; Drickamer, H. G. A Quantitative Study of the Volume Changes Resulting from Pressure-Induced Unfolding of *m*-Phenylene Ethynylene Foldamers in Solid PMMA and PtBMA. *Chem. Phys. Lett.* **2001**, *342*, 337-341.
5. Zhu, A.; Mio, M. J.; Moore, J. S.; Drickamer, H. G. The Effect of Pressure on the Conformation of Two Sets of *m*-Phenylene Ethynylene Oligomers in PMMA and PtBMA. *J. Phys. Chem. B.* **2001**, *105*, 3300-3305.
4. Tanatani, A.; Mio, M. J.; Moore, J. S. Chain Length-Dependent Affinity of Helical Foldamers for a Rodlike Guest. *J. Am. Chem. Soc.* **2001**, *123*, 1792-1793.
3. Mio, M. J.; Prince, R. B.; Moore, J. S.; Kübel, C.; Martin, D. C. Hexagonal Packing of Oligo(*m*-phenylene ethynylene)s in the Solid State: Helical Nanotubules. *J. Am. Chem. Soc.* **2000**, *122*, 6134-6135.

2. Mio, M. J.; Moore, J. S. Supramolecular Aufbau: Folded Polymers as Building Blocks for Adaptive Organic Materials. *MRS Bull.* **2000**, *25*, 36-41.

1. Moore, J. S.; Hill, D. J.; Mio, M. J. Solid-Phase Synthesis of Sequence-Specific Phenylacetylene Oligomers. In *Solid-Phase Synthesis*, Burgess, K., Ed.; Wiley-Interscience: New York, 2000; pp. 119-147.