# From N to P: Examining Structure-Property Relationships of Ammonium- and Phosphonium-Containing Macromolecules

Sean T. Hemp

Dissertation submitted to the faculty of the Virginia Polytechnic Institute and State University in partial fulfillment of the requirements for the degree of

Doctor of Philosophy In Chemistry

Timothy E. Long, Chair Robert B. Moore Kevin J. Edgar Tijana Z. Grove Richey M. Davis

> August 22<sup>nd</sup>, 2013 Blacksburg, VA

Keywords: phosphonium, ammonium, polyelectrolyte, RAFT polymerization

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# Chapter 2

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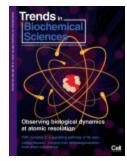












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Author: Struther Arnott

Publication: Trends in Biochemical

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Supramolecular Triblock

Copolymers Containing Complementary Nucleobase

Molecular Recognition

Author: Brian D. Mather et al.

**Publication: Macromolecules** 

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Date: Sep 1, 2007

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Polymerization: Use of Uridine and Adenosine Derivatized Monomers and

**Initiators** 

Author: Andrew Marsh,\*, Afzal

Khan, David M. Haddleton,\* and, and Michael J. Hannon

Publication: Macromolecules

Publisher: American Chemical Society

Date: Dec 1, 1999

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Author: Xiao Zhang

Publication: Journal of Polymer Research

Publisher: Springer Date: Jan 1, 2009 Copyright © 2009, Springer Science+Business Media B.V. Logged in as:

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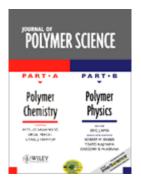












Title: Nucleobases modified azo-

polysiloxanes, materials with

potential application in

biomolecules nanomanipulation

Author: Nicolae Hurduc, Ramona

Enea,Dan Scutaru,Liviu Sacarescu,Bogdan C. Donose,Anh V. Nguyen

Publication: Journal of Polymer Science

Part A: Polymer Chemistry

Publisher: John Wiley and Sons

Date: Jul 31, 2007

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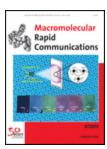












Title: Self-Complementary

Nucleoside-Thiophene Hybrid

Systems: Synthesis and

Supramolecular Organization

Author: Maria Luisa Navacchia, Laura

Favaretto,Emanuele Treossi,Vincenzo

Palermo, Giovanna Barbarella

Publication: Macromolecular Rapid

Communications

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Date: Dec 3, 2009

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Title: A Reversible and Highly

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for Mercury(II) Using

Poly(thiophene)s that Contain

**Thymine Moieties** 

Author: Yanli Tang,Fang He,Minghui

Yu, Fude Feng, Lingling

An, Huan Sun, Shu

Wang, Yuliang Li, Daoben Zhu

Publication: Macromolecular Rapid

Communications

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Poly(d,l-lactide)s Containing

Nucleobase Multiple Hydrogen

**Bonding** 

Afia S. Karikari.Brian D. Author:

Mather, and, and Timothy E.

Long\*

Publication: Biomacromolecules

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Polymerization: Copying the

Chain Length and

Polydispersity of Living Polymers into Conjugated

Polymers

Author: Pik Kwan Lo and Hanadi F.

Sleiman

Publication: Journal of the American

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Date: Apr 1, 2009

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Phosphonium-Containing Polyelectrolytes for Nonviral

Gene Delivery

Author: Sean T. Hemp, Michael H.

Allen, Jr., Matthew D. Green,

and Timothy E. Long

Publication: Biomacromolecules

Publisher: American Chemical Society

Date: Jan 1, 2012

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Phosphonium Polymerized Ionic Liquids: Thermal Analysis, Conductivity, and

Morphology

Author: Sean T. Hemp, Mingqiang

Zhang, Michael H.

Allen, Shijing Cheng, Robert B.

Moore, Timothy E. Long

Publication: Macromolecular Chemistry

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Publisher: John Wiley and Sons

Date: Aug 6, 2013

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#### Chapter 5













Title: Comparing Ammonium and

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Zhang, Michael H.

Allen, Shijing Cheng, Robert B.

Moore, Timothy E. Long

Publication: Macromolecular Chemistry

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# Chapter 6













Phosphonium-Containing

Polyelectrolytes for Nonviral

Gene Delivery

Author: Sean T. Hemp, Michael H.

Allen, Jr., Matthew D. Green,

and Timothy E. Long

Publication: Biomacromolecules

Publisher: American Chemical Society

Date: Jan 1, 2012

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Phosphonium-Containing Diblock Copolymers for Enhanced Colloidal Stability and Efficient Nucleic Acid

Delivery

Author: Sean T. Hemp, Adam E.

Smith, Joshua M. Bryson, Michael H. Allen, Jr., and

Timothy E. Long

**Publication: Biomacromolecules** 

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Phosphonium ionenes from well-defined step-growth polymerization: thermal and melt rheological properties

S. T. Hemp, M. Zhang, M. Tamami and T. E. Long, Polym. Chem., 2013, 4, 3582

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# Chapter 10













Synthesis and Properties of Sulfonium Polyelectrolytes for

**Biological Applications** 

Author: Sean T. Hemp, Michael H.

Allen, Jr., Adam E. Smith, and

Timothy E. Long

**Publication: ACS Macro Letters** 

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