

# Non-covalent Intermolecular Interactions in Polymer Design: Segmented Copolymers to Non-viral Gene Delivery Vectors

Daniel James Buckwalter

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**Title:** Morphology and orientation during the deformation of segmented elastomers studied with small-angle X-ray scattering and atomic force microscopy

**Author:** Bryan B. Sauer,R. Scott McLean,Donald J. Brill,David J. Londono

**Publication:** Journal of Polymer Science Part B: Polymer Physics

**Publisher:** John Wiley and Sons

**Date:** Jun 26, 2002

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**Title:** Solid state structure–property behavior of semicrystalline poly(ether-*block*-amide) PEBAXthermoplastic elastomers

**Author:** Jignesh P. Sheth, Jiannong Xu, Garth L. Wilkes

**Publication:** Polymer

**Publisher:** Elsevier

**Date:** 2003

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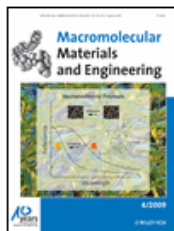


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**Title:** Segmented Block Copolymers with Monodisperse Hard Segments: The Influence of H-Bonding on Various Properties

**Author:** Gerard J. E. Biemond, Jan Feijen, Reinoud J. Gaymans

**Publication:** Macromolecular Materials & Engineering

**Publisher:** John Wiley and Sons

**Date:** Jul 21, 2009

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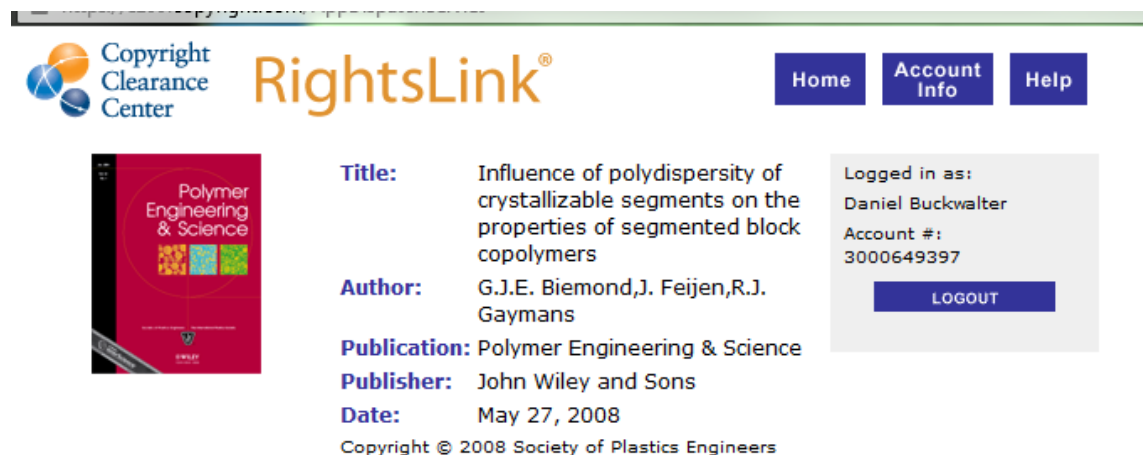
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- Publication:** Polymer Engineering & Science
- Publisher:** John Wiley and Sons
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**Title:** Structure–property relations of segmented block copolymers with liquid–liquid demixed morphologies

**Author:** Martijn van der Schuur, Evert van der Heide, Jan Feijen, Reinoud J. Gaymans

**Publication:** Polymer

**Publisher:** Elsevier

**Date:** 11 May 2005

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**Title:** Segmented blockcopolymers with uniform amide segments  
**Author:** D Husken, J Krijgsman, R.J Gaymans  
**Publication:** Polymer  
**Publisher:** Elsevier  
**Date:** June 2004  
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**Title:** Tensile properties of segmented block copolymers with monodisperse hard segments  
**Author:** G. J. E. Biemond  
**Publication:** Journal of Materials Science (full set)  
**Publisher:** Springer  
**Date:** Jan 1, 2008  
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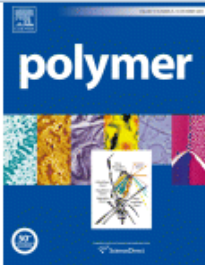
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**Title:** Structural changes of segmented copolyetheresteramides with uniform aramid units induced by melting and deformation

**Author:** M.C.E.J. Niesten, S. Harkema, E. van der Heide, R.J. Gaymans

**Publication:** Polymer

**Publisher:** Elsevier

**Date:** February 2001

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**Author:** P.A.M. Lips, R. Broos, M.J.M. van Heeringen, P.J. Dijkstra, J. Feijen

**Publication:** Polymer

**Publisher:** Elsevier

**Date:** 8 September 2005

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**Author:** Niels J. Sijbrandi, Ad J. Kimenai, Edwin P. C. Mes, René Broos, Georg Bar, Martin Rosenthal, Yaroslav Odarchenko, Dimitri A. Ivanov, Pieter J. Dijkstra, and Jan Feijen

**Publication:** Macromolecules

**Publisher:** American Chemical Society

**Date:** May 1, 2012

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**Title:** Novel functional polymers: Poly(dimethylsiloxane)-polyamide multiblock copolymer. IV. Gas permeability and thermomechanical properties of aramid-silicone resins

**Author:** Takeo Matsumoto, Yasumi Koinuma, Kazunori Waki, Akio Kishida, Tsutomu Furuzono, Ikuro Maruyama, Mitsuru Akashi

**Publication:** Journal of Applied Polymer Science

**Publisher:** John Wiley and Sons

**Date:** Dec 7, 1998

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**Title:** Polyurethane elastomers with amide chain extenders of uniform length  
**Author:** Martijn van der Schuur, Bart Noordover, Reinoud J. Gaymans  
**Publication:** Polymer  
**Publisher:** Elsevier  
**Date:** 8 February 2006  
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**Author:** M. Peyravi,A. A. Babaluo,M. Akhfash Ardestani,M. K. Razavi Aghjeh,S.R. Pishghadam,P. Hadi

**Publication:** Journal of Applied Polymer Science

**Publisher:** John Wiley and Sons

**Date:** Jun 2, 2010

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**Author:** J Krijgsman, J Feijen, R.J Gaymans

**Publication:** Polymer

**Publisher:** Elsevier

**Date:** June 2004

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**Title:** Enhancing the drawability of a polyester by copolymerization with a second type of crystallizable block

**Author:** Reinoud J. Gaymans, Andries W. van Swaaij

**Publication:** Journal of Applied Polymer Science

**Publisher:** John Wiley and Sons

**Date:** Jul 20, 2010

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Synthesis and characterization of new multiblock copolymers based on poly(dimethylsiloxane) and aromatic polyamides

**Author:** Mikio Kajiyama, Masaaki Kakimoto, and Yoshio Imai

**Publication:** Macromolecules

**Publisher:** American Chemical Society

**Date:** Nov 1, 1989

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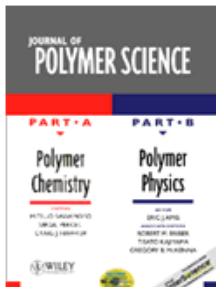


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**Title:** Poly(glycoamidoamine)s: Cationic glycopolymers for DNA delivery  
**Author:** Theresa M. Reineke  
**Publication:** Journal of Polymer Science Part A: Polymer Chemistry  
**Publisher:** John Wiley and Sons  
**Date:** Nov 8, 2006  
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**Title:** Trehalose Click Polymers Inhibit Nanoparticle Aggregation and Promote pDNA Delivery in Serum

**Author:** Sathya Srinivasachari et al.

**Publication:** Journal of the American Chemical Society

**Publisher:** American Chemical Society

**Date:** Jun 1, 2006

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Figure 8.5



**Title:** Versatile supramolecular pDNA vehicles via "click polymerization" of  $\beta$ -cyclodextrin with oligoethyleneamines

**Author:** Sathya Srinivasachari, Theresa M. Reineke

**Publication:** Biomaterials

**Publisher:** Elsevier

**Date:** February 2009

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Licensed content author	Sathya Srinivasachari, Theresa M. Reineke
Licensed content date	February 2009
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**Author:** Jean Haensler and Francis C. Szoka Jr.

**Publication:** Bioconjugate Chemistry

**Publisher:** American Chemical Society

**Date:** Sep 1, 1993

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Figure 8.7, 8.8, and 8.9



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ACS Publications  
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**Title:** Polycationic  $\beta$ -Cyclodextrin  
"Click Clusters": Monodisperse  
and Versatile Scaffolds for  
Nucleic Acid Delivery

**Author:** Sathya Srinivasachari, Katye M.  
Fichter, and, and Theresa M.  
Reineke\*

**Publication:** Journal of the American  
Chemical Society

**Publisher:** American Chemical Society

**Date:** Apr 1, 2008

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## Scheme 8.2



**Title:** Degradable polyethylenimine-*alt*-poly(ethylene glycol) copolymers as novel gene carriers

**Author:** Mi Ran Park, Ki Ok Han, In Kwon Han, Myung Haing Cho, Jae Woon Nah, Yun Jaie Choi, Chong Su Cho

**Publication:** Journal of Controlled Release

**Publisher:** Elsevier

**Date:** 20 July 2005

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