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2010, *43* (16), pp 6515-6530

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DOI: 10.1021/ma100572e

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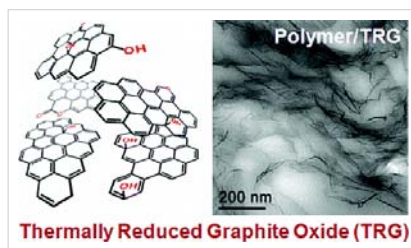




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Responsive Polymers for Detection and Sensing Applications: Current Status and Future Developments

Jinming Hu and Shiyong Liu

2010, *43* (20), pp 8315-8330

Publication Date (Web): September 17, 2010 (Perspective)

DOI: 10.1021/ma1005815

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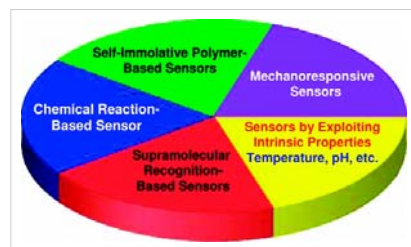






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Click Polymerization: Progresses, Challenges, and Opportunities

Anjun Qin, Jacky W. Y. Lam, and Ben Zhong Tang

2010, *43* (21), pp 8693-8702

Publication Date (Web): September 28, 2010 (Perspective)

DOI: 10.1021/ma101064u






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Photoinitiated Polymerization: Advances, Challenges, and Opportunities

Yusuf Yagci, Steffen Jockusch and Nicholas J. Turro

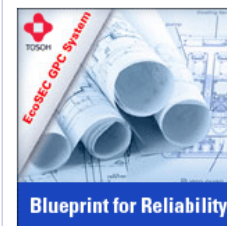
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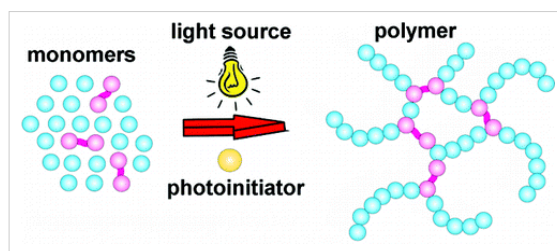


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Block Copolymers for Fuel Cells

Yosief A. Elabd and Michael A. Hickner

2011, 44 (1), pp 1-11

Publication Date (Web): November 30, 2010 (Perspective)

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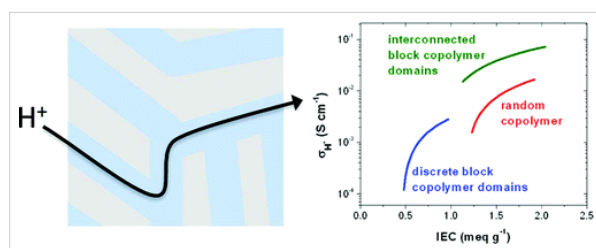


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Living Free-Radical Polymerization by Reversible Addition-Fragmentation Chain Transfer: The RAFT Process

John Chiefari, Y. K. (Bill) Chong, Frances Ercole, Julia Krstina, Justine Jeffery, Tam P. T. Le, Roshan T. A. Mayadunne, Gordon F. Meijs, Catherine L. Moad, Graeme Moad, Ezio Rizzardo, and San H. Thang

1998, 31 (16), pp 5559-5562

Publication Date (Web): July 22, 1998 (Communication to the Editor)

DOI: 10.1021/ma9804951



Section: Chemistry of Synthetic High Polymers

Abstract

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Polymer Nanocomposites Containing Carbon Nanotubes

Mohammad Moniruzzaman and Karen I. Winey

2006, 39 (16), pp 5194-5205

Publication Date (Web): July 7, 2006 (Review)

DOI: 10.1021/ma060733p



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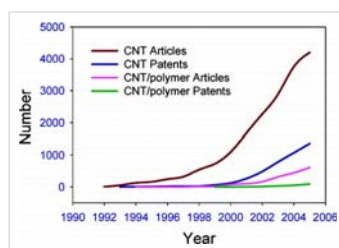


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Macromolecular Engineering through Click Chemistry and Other Efficient Transformations

Brent S. Sumerlin and Andrew P. Vogt

2010, *43* (1), pp 1-13

Publication Date (Web): November 18, 2009 (Perspective)

DOI: 10.1021/ma901447e

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Polymer Scaffolds for Biomaterials Applications

Molly S. Shoichet

2010, *43* (2), pp 581-591

Publication Date (Web): December 15, 2009 (Perspective)

DOI: 10.1021/ma901530r

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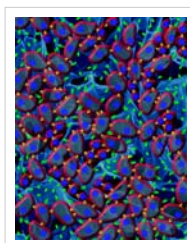


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Bioinspired Polymeric Nanocomposites

David A. Stone and LaShanda T. J. Korley

2010, *43* (22), pp 9217-9226

Publication Date (Web): October 4, 2010 (Perspective)

DOI: 10.1021/ma101661p

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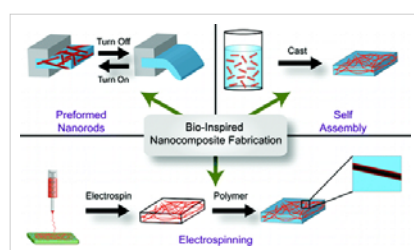


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Self-Assembly and Micellization of a Dual Thermoresponsive Supramolecular Pseudo-Block Copolymer

Zhong-Xing Zhang, Kerh Li Liu, and Jun Li

2011, *44* (5), pp 1182-1193

Publication Date (Web): February 4, 2011 (Article)

DOI: 10.1021/ma102196q

Section: Physical Properties of Synthetic High Polymers

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□ **Thieno[3,4-c]pyrrole-4,6-dione-Based Donor–Acceptor Conjugated Polymers for Solar Cells**

Xugang Guo, Hao Xin, Felix Sunjoo Kim, Arawwawala D. T. Liyanage, Samson A. Jenekhe, and Mark D. Watson





2011, *44* (2), pp 269–277

Publication Date (Web): December 23, 2010 (Article)

DOI: 10.1021/ma101878w

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□ **Phototunable LCST of Water-Soluble Polymers: Exploring a Topological Effect**





Yi Zhao, Luc Tremblay, and Yue Zhao

2011, *44* (10), pp 4007–4011

Publication Date (Web): April 21, 2011 (Note)

DOI: 10.1021/ma200691s

Abstract

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□ **A Thieno[3,4-c]pyrrole-4,6-dione-Based Donor–Acceptor Polymer Exhibiting High Crystallinity for Photovoltaic Applications**

Mao-Chuan Yuan, Mao-Yuan Chiu, Shih-Pin Liu, Chia-Min Chen and Kung-Hwa Wei





2010, *43* (17), pp 6936–6938

Publication Date (Web): August 16, 2010 (Communication to the Editor)

DOI: 10.1021/ma101523a

Section: **Chemistry of Synthetic High Polymers**

Abstract | Supporting Info

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□ **Phthalate Plasticizers Covalently Bound to PVC: Plasticization with Suppressed Migration**

Rodrigo Navarro, Mónica Pérez Perrino, Myriam Gómez Tardajos and Helmut Reinecke





2010, *43* (5), pp 2377–2381

Publication Date (Web): January 21, 2010 (Article)

DOI: 10.1021/ma902740t

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□ **Synthesis and Self-Assembly of Amphiphilic Asymmetric Macromolecular Brushes**

Xueming Lian, Dongxia Wu, Xiaohui Song, and Hanying Zhao




2010, *43* (18), pp 7434–7445

Publication Date (Web): August 25, 2010 (Article)

DOI: 10.1021/ma101452h

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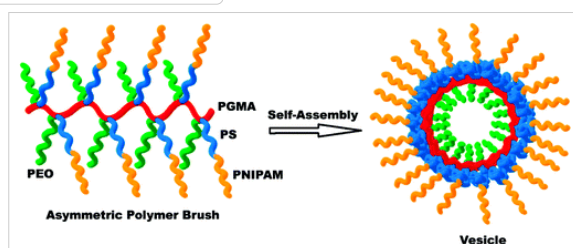


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□ **Polymers from Renewable Resources: A Challenge for the Future of Macromolecular Materials**

Alessandro Gandini





2008, *41* (24), pp 9491–9504

Publication Date (Web): October 14, 2008 (Perspective)

DOI: 10.1021/ma801735u

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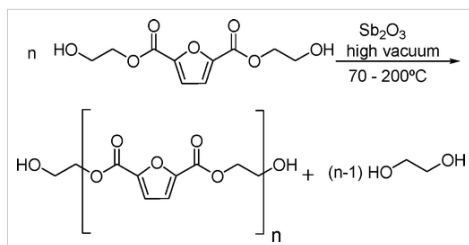


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□ Dopamine-Induced Reduction and Functionalization of Graphene Oxide Nanosheets

Li Qun Xu, Wen Jing Yang, Koon-Gee Neoh, En-Tang Kang, and Guo Dong Fu

2010, 43 (20), pp 8336-8339

Publication Date (Web): September 27, 2010 (Communication to the Editor)

DOI: 10.1021/ma101526k



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□ Synthesis and Characterization of Bridged Bithiophene-Based Conjugated Polymers for Photovoltaic Applications: Acceptor Strength and Ternary Blends

Chiu-Hsiang Chen, Chao-Hsiang Hsieh, Martin Duboscq, Yen-Ju Cheng and Chain-Shu Hsu

2010, 43 (2), pp 697-708

Publication Date (Web): December 9, 2009 (Article)

DOI: 10.1021/ma902206u



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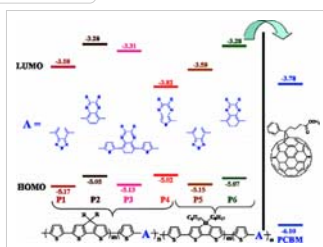


Figure 1 of 10

□ Enhanced Mechanical Properties of Graphene-Based Poly(vinyl alcohol) Composites

Xin Zhao, Qinghua Zhang and Dajun Chen, Ping Lu

2010, 43 (5), pp 2357-2363

Publication Date (Web): February 9, 2010 (Article)

DOI: 10.1021/ma902862u



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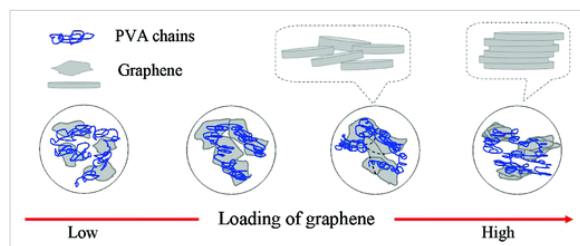


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