

## Polymer Vol. 49, No. 20, 23 September 2008

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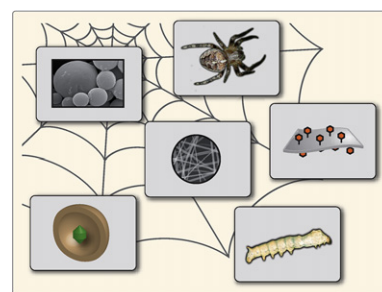
#### FEATURE ARTICLE

##### Polymeric materials based on silk proteins

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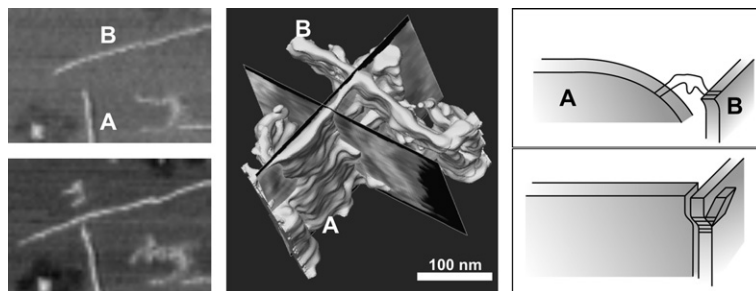
#### POLYMER COMMUNICATION

##### Nucleation of branches in elastomeric polypropylene

Mechthild Franke\*, Nicolaus Rehse

*Chemische Physik, Technische Universität Chemnitz, Reichenhainer Str. 70, 09107 Chemnitz, Germany*

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## POLYMER PAPERS

### UV-photopolymerisation of poly(methyl methacrylate)-based inorganic–organic hybrid coatings and bulk samples reinforced with methacrylate-modified zirconium oxocluster

Francesco Graziola<sup>a,b</sup>, Fabrizio Girardi<sup>b</sup>, Matthias Bauer<sup>c</sup>, Rosa Di Maggio<sup>b</sup>, Mauro Rovezzi<sup>d</sup>, Helmut Bertagnolli<sup>c</sup>, Cinzia Sada<sup>e</sup>, Gilberto Rossetto<sup>f</sup>, Silvia Gross<sup>a,\*</sup>

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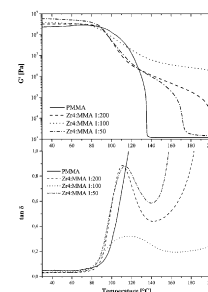
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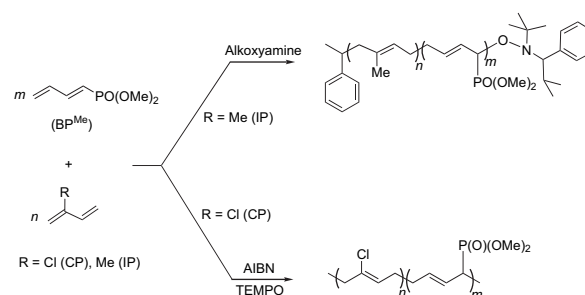
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Noureddine Ajellal, Christophe M. Thomas, Jean-François Carpentier\*

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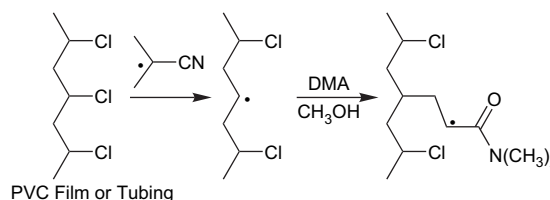


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### Hydrophilic surface modification of poly(vinyl chloride) film and tubing using physisorbed free radical grafting technique

Kathryn M. McGinty, William J. Brittain\*

*Department of Polymer Science, The University of Akron, Akron, OH 44325-3909, United States*



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### Relation between the viscoelastic and flammability properties of polymer nanocomposites

Takashi Kashiwagi<sup>a,\*</sup>, Minfang Mu<sup>b</sup>, Karen Winey<sup>b</sup>, Bani Cipriano<sup>c</sup>, S.R. Raghavan<sup>c</sup>, Seongchan Pack<sup>d</sup>, Miriam Rafailovich<sup>d</sup>, Yin Yang<sup>e</sup>, Eric Grulke<sup>e</sup>, John Shields<sup>a</sup>, Richard Harris<sup>a</sup>, Jack Douglas<sup>f</sup>

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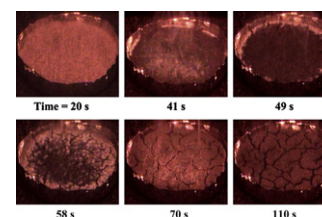
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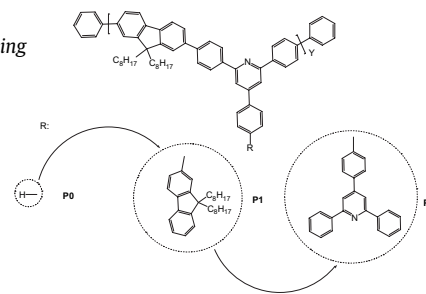


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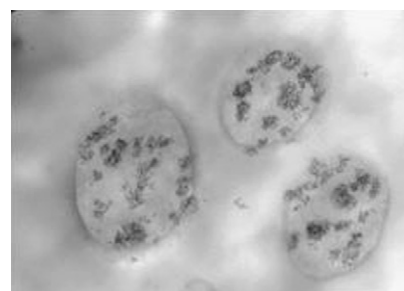
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L. Elias<sup>a</sup>, F. Fenouillot<sup>b</sup>, J.C. Majesté<sup>c,\*</sup>, P. Alcouffe<sup>a,b</sup>, P. Cassagnau<sup>a</sup>

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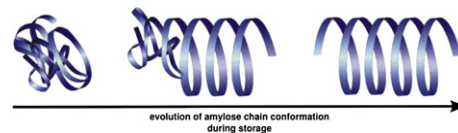


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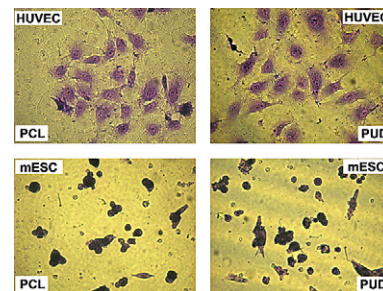


## Synthesis and characterization of novel biodegradable and biocompatible poly(ester-urethane) thin films prepared by homogeneous solution polymerization

Wenshou Wang<sup>a</sup>, Yanlin Guo<sup>b</sup>, Joshua U. Otaigbe<sup>a,\*</sup>

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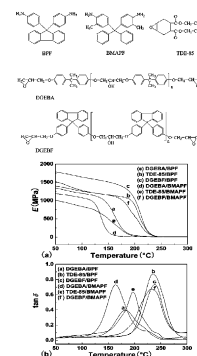
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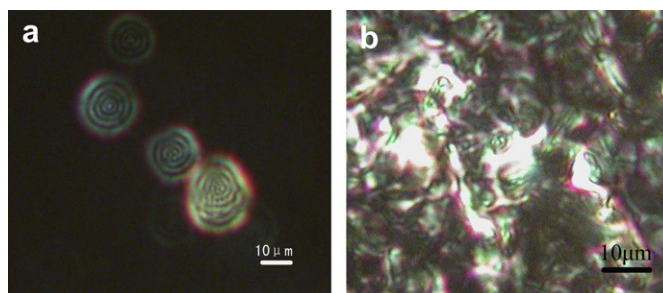
Jie Yi<sup>a,b</sup>, Qunxing Xu<sup>a</sup>, Xuefei Zhang<sup>a,c</sup>, Hailiang Zhang<sup>a,b,\*</sup>

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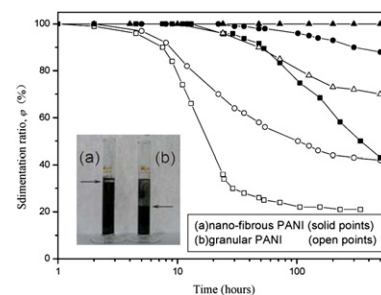


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Jianbo Yin, Xiaopeng Zhao<sup>\*</sup>, Xiang Xia, Liqin Xiang, Yinpo Qiao

*Institute of Electrorheological Technology, Department of Applied Physics, Northwestern Polytechnical University, Xi'an 710072, PR China*

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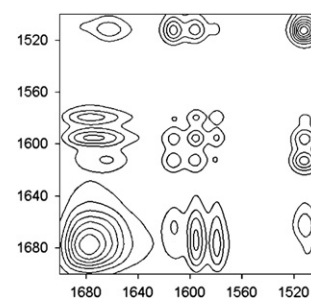


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Shiao Wei Kuo

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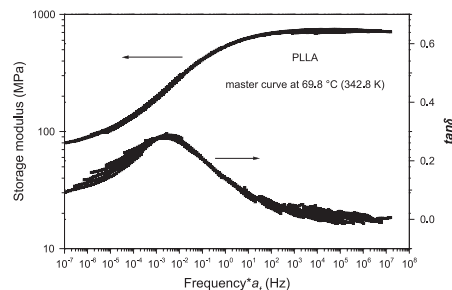


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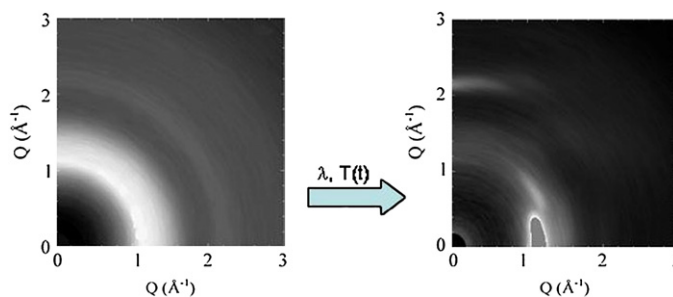
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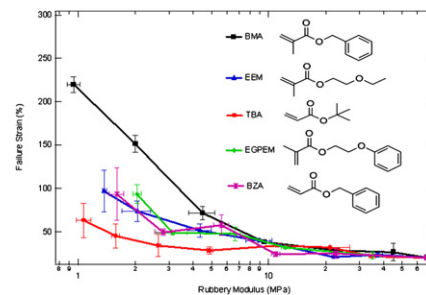
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David L. Safranski<sup>a,\*</sup>, Ken Gall<sup>a,b</sup>

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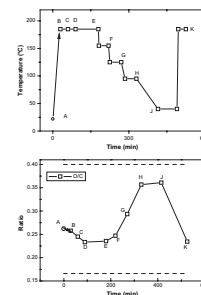
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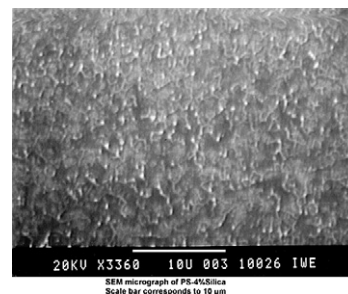


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G. Spathis, E. Kontou\*

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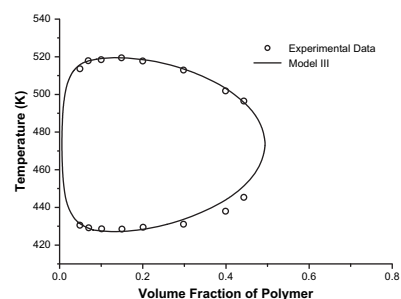
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**Closed miscibility loop phase behavior of polymer solutions**

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