

Accepted Manuscript

Radical mediated thiol-ene/yne dispersion polymerizations

Farbod Alimohammadi, Chen Wang, Olivia Z. Durham, Hannah R. Norton,
Christopher N. Bowman, Devon A. Shipp



PII: S0032-3861(16)30927-2

DOI: [10.1016/j.polymer.2016.10.016](https://doi.org/10.1016/j.polymer.2016.10.016)

Reference: JPOL 19116

To appear in: *Polymer*

Received Date: 30 July 2016

Revised Date: 2 October 2016

Accepted Date: 7 October 2016

Please cite this article as: Alimohammadi F, Wang C, Durham OZ, Norton HR, Bowman CN, Shipp DA, Radical mediated thiol-ene/yne dispersion polymerizations, *Polymer* (2016), doi: 10.1016/j.polymer.2016.10.016.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Radical Mediated Thiol-Ene/Yne Dispersion Polymerizations

Farbod Alimohammadi,^{a)} Chen Wang,^{b)} Olivia Z. Durham,^{a)} Hannah R. Norton,^{a)}

Christopher N. Bowman,^{b),*} Devon A. Shipp^{a),*}

^{a)} *Department of Chemistry and Biomolecular Science
and Center for Advanced Material Processing
Clarkson University, Potsdam, NY 13699-5810*

^{b)} *Department of Chemical and Biological Engineering
University of Colorado, UCB 596, Boulder, CO 80303*

* To whom correspondence should be addressed

dshipp@clarkson.edu

Christopher.bowman@colorado.edu

Highlights:

- First report of radical mediated thiol-ene and thiol-yne dispersion polymerizations
- Polymer particles several hundred nanometers can be made
- Thermal, photo- or redox initiation methods were all shown to be effective
- Effects of monomer, stabilizer, and initiator on particle size were studied

Download English Version:

<https://daneshyari.com/en/article/5178859>

Download Persian Version:

<https://daneshyari.com/article/5178859>

[Daneshyari.com](https://daneshyari.com)