

## Accepted Manuscript

Title: Photo-responsive polymer materials for biological applications

Authors: Yuwei Hao, Jingxin Meng, Shutao Wang

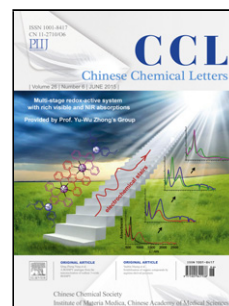
PII: S1001-8417(17)30438-2  
DOI: <https://doi.org/10.1016/j.ccllet.2017.10.019>  
Reference: CCLET 4292

To appear in: *Chinese Chemical Letters*

Received date: 31-7-2017  
Revised date: 25-9-2017  
Accepted date: 16-10-2017

Please cite this article as: Yuwei Hao, Jingxin Meng, Shutao Wang, Photo-responsive polymer materials for biological applications, *Chinese Chemical Letters* <https://doi.org/10.1016/j.ccllet.2017.10.019>

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.



Review

## Photo-responsive polymer materials for biological applications

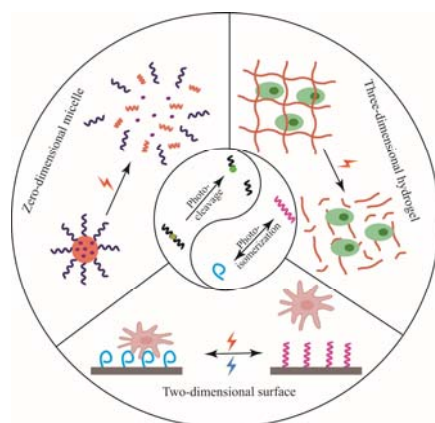
Yuwei Hao<sup>a,c</sup>, Jingxin Meng<sup>b,\*</sup>, Shutao Wang<sup>b,c,\*</sup>

<sup>a</sup> Beijing National Laboratory for Molecular Sciences, Key Laboratory of Green Printing, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

<sup>b</sup> CAS Key Laboratory of Bio-inspired Materials and Interfacial Science, CAS Center for Excellence in Nanoscience, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, China

<sup>c</sup> University of Chinese Academy of Sciences, Beijing 100049, China

Graphical Abstract



In this review, we briefly summarized the remarkable progress of photo-responsive polymer materials from zero-dimensional micelles, two-dimensional surfaces to three-dimensional hydrogels with irreversible or reversible moieties. Based on the photo-responsiveness, polymer have been designed, synthesized and applied for various biological fields including drug delivery and cell manipulation.

\* Corresponding authors.

E-mail addresses: mengjx628@mail.ipc.ac.cn (J. Meng), stwang@mail.ipc.ac.cn (S. Wang).

Download English Version:

<https://daneshyari.com/en/article/7693585>

Download Persian Version:

<https://daneshyari.com/article/7693585>

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