

Accepted Manuscript

Title: Investigating the role of surface micro/nano structure in cell adhesion behavior of superhydrophobic polypropylene/nanosilica surfaces

Author: Iman Hejazi Javad Seyfi Ehsan Hejazi Gity Mir
Mohamad Sadeghi Seyed Hassan Jafari Hossein Ali
Khonakdar



PII: S0927-7765(15)00072-7
DOI: <http://dx.doi.org/doi:10.1016/j.colsurfb.2015.01.054>
Reference: COLSUB 6887

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 13-12-2014
Revised date: 20-1-2015
Accepted date: 29-1-2015

Please cite this article as: I. Hejazi, J. Seyfi, E. Hejazi, G.M.M. Sadeghi, S.H. Jafari, H.A. Khonakdar, Investigating the role of surface micro/nano structure in cell adhesion behavior of superhydrophobic polypropylene/nanosilica surfaces, *Colloids and Surfaces B: Biointerfaces* (2015), <http://dx.doi.org/10.1016/j.colsurfb.2015.01.054>

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.

Highlights

A novel method was employed for fabricating superhydrophobic nanocomposite coatings.

Combining nanoparticle and non-solvent had a synergistic effect on phase separation.

Dimensions of topographical features had a great impact on cell adhesion behavior.

Cell adhesion was more suppressed on surfaces with nano-scale topographical features.

Download English Version:

<https://daneshyari.com/en/article/6982001>

Download Persian Version:

<https://daneshyari.com/article/6982001>

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