

Accepted Manuscript

Multi-Compartment Centrifugal Electrospinning Based Composite Fibers

Li Wang, Zeeshan Ahmad, Jie Huang, Jing-Song Li, Ming-Wei Chang

PII: S1385-8947(17)31326-8
DOI: <http://dx.doi.org/10.1016/j.cej.2017.07.179>
Reference: CEJ 17445

To appear in: *Chemical Engineering Journal*

Received Date: 7 May 2017
Revised Date: 28 July 2017
Accepted Date: 29 July 2017



Please cite this article as: L. Wang, Z. Ahmad, J. Huang, J-S. Li, M-W. Chang, Multi-Compartment Centrifugal Electrospinning Based Composite Fibers, *Chemical Engineering Journal* (2017), doi: <http://dx.doi.org/10.1016/j.cej.2017.07.179>

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.

Multi-Compartment Centrifugal Electrospinning Based Composite Fibers

Li Wang^{a,b}, Zeeshan Ahmad^c, Jie Huang^d, Jing-Song Li^a, Ming-Wei Chang^{a,b,c,*}

^a Key Laboratory for Biomedical Engineering of Education Ministry of China, Hangzhou, 310027, P. R. China.

^b Zhejiang Provincial Key Laboratory of Cardio-Cerebral Vascular Detection Technology and Medicinal Effectiveness Appraisal, College of Biomedical Engineering & Instrument Science, Zhejiang University, Hangzhou, 310027, P. R. China.

^c College of Biomedical Engineering & Instrument Science, Zhejiang University, Hangzhou, 310027, P. R. China.

^d Leicester School of Pharmacy, De Montfort University, The Gateway, Leicester, LE1 9BH, UK.

^e Department of Mechanical Engineering, University College London, London WC1E 7JE, UK.

*corresponding author: Ming-Wei Chang, Ph.D., Assoc. Professor

Tel:+86(0)571-87951517, Email: mwchang@zju.edu.cn

CMCCE: combinatorial multi-compartment centrifugal electrospinning system

CES: centrifugal electrospinning system

CO-ES: co-axial electrospinning

SEM: scanning electron microscopy

FTIR: fourier transform infrared spectroscopy

EE: encapsulation efficiency

PS: polystyrene

TPU: thermoplastic polyurethane

DCM: dichloromethane

TE-HCl: hydrochloride

ES: electrospinning

OM: optical microscopy

FM: fluorescence microscopy

FFT: fast Fourier transform

PVP: polyvinyl pyrrolidone

PCL: polycaprolactone

DMAc: N,N-dimethylformamide

EtOH: ethanol

PBS: phosphate buffer saline

Download English Version:

<https://daneshyari.com/en/article/4762917>

Download Persian Version:

<https://daneshyari.com/article/4762917>

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