Accepted Manuscript

Title: Wear-resistant and conductive superhydrophobic coatings with nest-like structure prepared by a one-step spray-drying method

Authors: Xiaomin Luo, Mengyuan Wei, Min Cao, Huijen Ren, Jianyan Feng

PII:	S0255-2701(18)30153-3
DOI:	https://doi.org/10.1016/j.cep.2018.06.004
Reference:	CEP 7306
— ·	
To appear in:	Chemical Engineering and Processing
Received date:	7-2-2018
Revised date:	1-4-2018
Accepted date:	5-6-2018
-	

Please cite this article as: Luo X, Wei M, Cao M, Ren H, Feng J, Wear-resistant and conductive superhydrophobic coatings with nest-like structure prepared by a one-step spray-drying method, *Chemical Engineering and Processing - Process Intensification* (2018), https://doi.org/10.1016/j.cep.2018.06.004

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.



ACCEPTED MANUSCRIPT

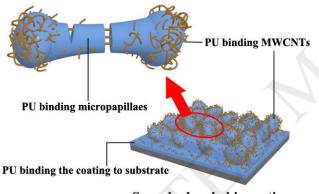
Wear-resistant and conductive superhydrophobic coatings with nest-like structure prepared by a one-step spray-drying method

Xiaomin Luo,* Mengyuan Wei, Min Cao, Huijen Ren, Jianyan Feng

College of Bioresources Chemical and Materials Engineering, Shaanxi University of Science and Technology, Xi'an 710021, China.

*Corresponding author. E-mail: 18634620832@163.com (Xiao-Min Luo)

Graphical abstract



Superhydrophobic coating

A wear-resistant and conductive superhydrophobic coating with nest-like structure were prepared via a facile one-step method.

Highlights

- A hot water-repellent superhydrophobic mesh used for oil/water separation was prepared by one-step spray method.
- The as-prepared superhydrophobic mesh could be applied as effective materials for the separation of oil/water mixture with a temperature as high as 100 °C.
- The as-prepared superhydrophobic mesh showed excellent mechanical durability, which made it a promising material for practical oil/water separation.

Download English Version:

https://daneshyari.com/en/article/7088083

Download Persian Version:

https://daneshyari.com/article/7088083

Daneshyari.com