

Author's Accepted Manuscript

Surface characterization of bio-fillers from typical mollusk shell using computational algorithms

Zhitong Yao, Daidai Wu, Jerry Y.Y. Heng, Hongting Zhao, Weihong Wu, Junhong Tang



PII: S0143-7496(18)30034-4
DOI: <https://doi.org/10.1016/j.ijadhadh.2018.02.007>
Reference: JAAD2132

To appear in: *International Journal of Adhesion and Adhesives*
Accepted date: 3 February 2018

Cite this article as: Zhitong Yao, Daidai Wu, Jerry Y.Y. Heng, Hongting Zhao, Weihong Wu and Junhong Tang, Surface characterization of bio-fillers from typical mollusk shell using computational algorithms, *International Journal of Adhesion and Adhesives*, <https://doi.org/10.1016/j.ijadhadh.2018.02.007>

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 galley proof before it is published in its final citable 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.

Surface characterization of bio-fillers from typical mollusk shell using computational algorithms

Zhitong Yao^{1,3*}, Daidai Wu², Jerry Y. Y. Heng⁴, Hongting Zhao¹, Weihong Wu¹, Junhong Tang^{1*}

¹College of Materials Science and Environmental Engineering, Hangzhou Dianzi University, Hangzhou 310018, China

²Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, Guangzhou 510640, China

³Key Laboratory for Solid Waste Management and Environment Safety (Tsinghua University), Ministry of Education of China, Tsinghua University, Beijing 100084, China

⁴Department of Chemical Engineering, Imperial College London, South Kensington Campus, London SW7 2AZ, United Kingdom

sxyzt@126.com

tang_jhjh@163.com

*Corresponding authors. Tel./fax: +86 571 86919158

ABSTRACT

The generation of surface free energy parameters calculated from contact angle data is a burdensome and time-consuming process. To facilitate these calculations, computational algorithms using three different programming languages—MATLAB, C and Python—were developed and validated by surface properties determination of PO and CPO. The results indicated that the surface free energy parameters calculated using the three algorithms were consistent. The unknowns were obtained directly from within the C and Python programs, however, indirectly from within MATLAB

Download English Version:

<https://daneshyari.com/en/article/7170884>

Download Persian Version:

<https://daneshyari.com/article/7170884>

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