

# Accepted Manuscript

## Regular Article

Rational design of aromatic surfactants for graphene/natural rubber latex nanocomposites with enhanced electrical conductivity

Azmi Mohamed, Tretya Ardyani, Suriani Abu Bakar, Masanobu Sagisaka, Yasushi Umetsu, J.J. Hamon, Bazura Abdul Rahim, Siti Rahmah Esa, H.P.S. Abdul Khalil, Mohamad Hafiz Mamat, Stephen King, Julian Eastoe

PII: S0021-9797(18)30050-X  
DOI: <https://doi.org/10.1016/j.jcis.2018.01.041>  
Reference: YJCIS 23199

To appear in: *Journal of Colloid and Interface Science*

Received Date: 10 December 2017  
Revised Date: 10 January 2018  
Accepted Date: 10 January 2018

Please cite this article as: A. Mohamed, T. Ardyani, S. Abu Bakar, M. Sagisaka, Y. Umetsu, J.J. Hamon, B.A. Rahim, S.R. Esa, H.P.S. Abdul Khalil, M.H. Mamat, S. King, J. Eastoe, Rational design of aromatic surfactants for graphene/natural rubber latex nanocomposites with enhanced electrical conductivity, *Journal of Colloid and Interface Science* (2018), doi: <https://doi.org/10.1016/j.jcis.2018.01.041>

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.



Rational Design of Aromatic Surfactants for Graphene/Natural Rubber Latex Nanocomposites  
with Enhanced Electrical Conductivity

Azmi Mohamed<sup>1,2\*</sup>, Tretya Ardyani<sup>1</sup>, Suriani Abu Bakar<sup>2</sup>, Masanobu Sagisaka<sup>3</sup>, Yasushi  
Umetsu<sup>3</sup>, J.J. Hamon<sup>4</sup>, Bazura Abdul Rahim<sup>5</sup>, Siti Rahmah Esa<sup>5</sup>, H.P.S. Abdul Khalil<sup>6</sup>,  
Mohamad Hafiz Mamat<sup>7</sup>, Stephen King<sup>8</sup>, Julian Eastoe<sup>9</sup>

<sup>1</sup>Department of Chemistry, <sup>2</sup>Nanotechnology Research Centre, Faculty of Science and Mathematics, Universiti Pendidikan Sultan Idris, 35900 Tanjong Malim, Perak, Malaysia

<sup>3</sup>Department of Frontier Materials Chemistry, Graduate School of Science and Technology, Hirosaki University, Bunkyo-cho 3, Hirosaki, Aomori 036-8561, Japan

<sup>4</sup>School of Chemistry, Monash University, Clayton 3800, Australia.

<sup>5</sup>MIMOS Semiconductor Sdn Bhd (MSSB), Technology Park Malaysia, 57000 Bukit Jalil, Kuala Lumpur,

<sup>6</sup>School of Industrial Technology, Universiti Sains Malaysia, 11700 Gelugor, Penang, Malaysia

<sup>7</sup>NANO-SciTech Centre (NST), Institute of Science (IOS), Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, Malaysia

<sup>8</sup>Rutherford Appleton Laboratory, ISIS Spallation Source, Chilton, Oxfordshire, OX110QT, United Kingdom

<sup>9</sup>School of Chemistry, University of Bristol, Cantock's Close, Bristol, BS8 1TS, United Kingdom

\*Corresponding author. Tel.: +601548797582; fax: +601548797296

Download English Version:

<https://daneshyari.com/en/article/6991992>

Download Persian Version:

<https://daneshyari.com/article/6991992>

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