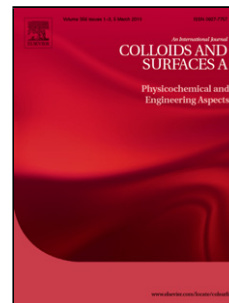


Accepted Manuscript

Title: Wettability control of PET surface by plasma-induced polymer film deposition and plasma/UV oxidation in ambient air

Authors: Keiko Gotoh, Eriko Shohbuke, Yasuyuki Kobayashi, Hirohisa Yamada



PII: S0927-7757(18)30643-5
DOI: <https://doi.org/10.1016/j.colsurfa.2018.07.033>
Reference: COLSUA 22688

To appear in: *Colloids and Surfaces A: Physicochem. Eng. Aspects*

Received date: 22-3-2018
Revised date: 15-7-2018
Accepted date: 19-7-2018

Please cite this article as: Gotoh K, Shohbuke E, Kobayashi Y, Yamada H, Wettability control of PET surface by plasma-induced polymer film deposition and plasma/UV oxidation in ambient air, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2018), <https://doi.org/10.1016/j.colsurfa.2018.07.033>

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.

Wettability control of PET surface by plasma-induced polymer film deposition and plasma/UV oxidation in ambient air

Keiko Gotoh^{a*}, Eriko Shohbuke^b, Yasuyuki Kobayashi^c, Hirohisa Yamada^a

^a National Institute of Technology, Nara College, 22 Yata-cho, Yamatokoriyama, Nara 639-1080, Japan

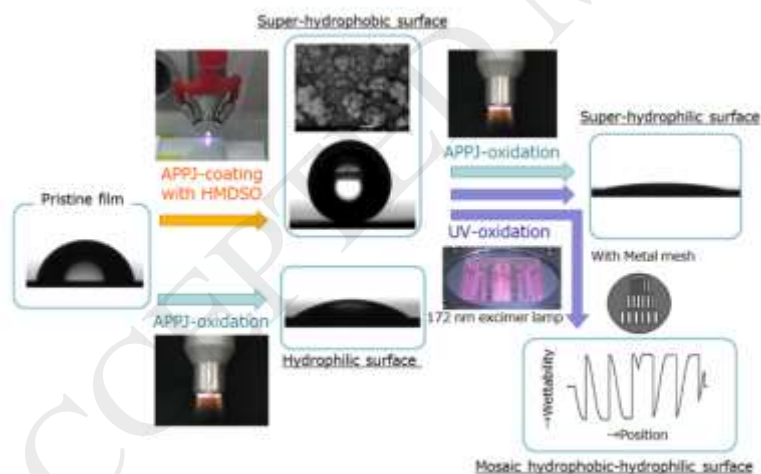
^b Faculty of Human Life and Environment, Nara Women's University, Nara, Japan

^c Research Division of Electronic Materials, Osaka Research Institute of Industrial Science and Technology, Osaka, Japan

*Corresponding author at: National Institute of Technology, Nara College, 22 Yata-cho, Yamatokoriyama, Nara 639-1080, Japan

E-mail address: k-gotoh@jimu.nara-k.ac.jp (K. Gotoh)

Graphical abstract



Highlights

- Surface modification of PET film was achieved by two sequential atmospheric pressure plasma jet (APPJ) treatments.
- The PET film subjected to APPJ-coating showed superior water repellency and subsequent

Download English Version:

<https://daneshyari.com/en/article/6977111>

Download Persian Version:

<https://daneshyari.com/article/6977111>

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