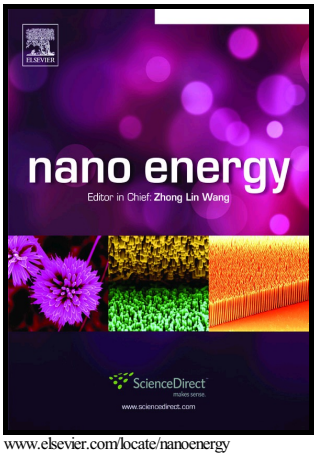
Author's Accepted Manuscript



www.elsevier.com/locate/nanoenergy

A Novel Design of Hybrid Transparent Electrodes for High Performance and Ultra-Flexible Bifunctional Electrochromic-Supercapacitors

Riski Titian Ginting, Manoj Mayaji Ovhal, Jae-Wook Kang

PII: S2211-2855(18)30660-8
DOI: https://doi.org/10.1016/j.nanoen.2018.09.016
Reference: NANOEN3021

To appear in: *Nano Energy*

Received date: 21 May 2018
Revised date: 24 August 2018
Accepted date: 9 September 2018

Cite this article as: Riski Titian Ginting, Manoj Mayaji Ovhal and Jae-Wook Kang, A Novel Design of Hybrid Transparent Electrodes for High Performance and Ultra-Flexible Bifunctional Electrochromic-Supercapacitors, *Nano Energy,* https://doi.org/10.1016/j.nanoen.2018.09.016

A Novel Design of Hybrid Transparent Electrodes for High Performance and Ultra-Flexible Bifunctional Electrochromic-Supercapacitors

Riski Titian Ginting [a,b,§], Manoj Mayaji Ovhal[a,§] and Jae-Wook Kang[a,*]

[a]Department of Flexible and Printable Electronics, Polymer Materials Fusion Research Center, Chonbuk National University, Jeonju 54896, Republic of Korea

[b]Department of Physics, Faculty of Mathematics and Natural Science, University of Sumatera Utara, Medan, Indonesia

[§]R.T. Ginting, and M.M. Ovhal made equal contribution to this paper

*To whom correspondence should be addressed.

Prof. Jae-Wook Kang (E-mail: jwkang@jbnu.ac.kr)