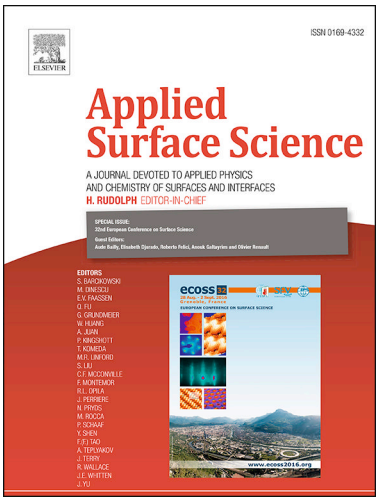

Full Length Article

Catalytic roles of Sm_2O_3 dopants on ethylene oxide sensing mechanisms of flame-made SnO_2 nanoparticles

Suparat Singkammo, Anurat Wisitsoraat, Adisorn Tuantranont, Sukon Phanichphant, Visittapong Yodsri, Chaikarn Liewhiran

PII: S0169-4332(18)31460-0
DOI: https://doi.org/10.1016/j.apsusc.2018.05.146
Reference: APSUSC 39422

To appear in: *Applied Surface Science*

Received Date: 17 February 2018
Revised Date: 5 May 2018
Accepted Date: 18 May 2018

Please cite this article as: S. Singkammo, A. Wisitsoraat, A. Tuantranont, S. Phanichphant, V. Yodsri, C. Liewhiran, Catalytic roles of Sm_2O_3 dopants on ethylene oxide sensing mechanisms of flame-made SnO_2 nanoparticles, *Applied Surface Science* (2018), doi: https://doi.org/10.1016/j.apsusc.2018.05.146

Catalytic roles of Sm_2O_3 dopants on ethylene oxide sensing mechanisms of flame-made SnO_2 nanoparticles

Suparat Singkammo[a,b], Anurat Wisitsoraat[c,d,e], Adisorn Tuantranont[c,f]
Sukon Phanichphant[c], Visittapong Yodsri[g], Chaikarn Liewhiran[a,c,h,*]

[a]Department of Physics and Materials Science, Faculty of Science, Chiang Mai University, Chiang Mai 50200, Thailand

[b]Graduate School, Chiang Mai University, Chiang Mai 50200, Thailand

[c]Center of Advanced Materials for Printed Electronics and Sensors, Materials Science Research Center, Faculty of Science, Chiang Mai University, Chiang Mai 50200, Thailand

[d]Carbon-based Devices and Nanoelectronics Laboratory, National Electronics and Computer Technology Center, National Science and Technology Development Agency, Klong Luang, Pathumthani 12120, Thailand

[e]Department of Common and Graduate Studies, Sirindhorn International Institute of Technology, Thammasat University, Pathumthani 12120, Thailand

[f]Thailand Organic and Printed Electronics Innovation Center, National Electronics and Computer Technology Center, National Science and Technology Development Agency, Klong Luang, Pathumthani 12120, Thailand

[g]National Metal and Materials Technology Center, National Science and Technology Development Agency, Klong Luang, Pathumthani 12120, Thailand

[h]Center of Excellence in Materials Science and Technology, Chiang Mai University, Chiang Mai 50200, Thailand

Tel.: +66-81-408-2324; Fax: +66-53-943-445

* Corresponding author: E-mail: cliewhiran@gmail.com