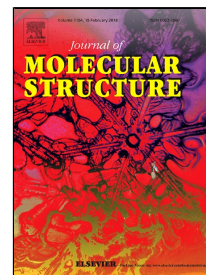


Accepted Manuscript

Delocalization of π electrons and trapping action of ZnO nanoparticles in PPY matrix for hybrid solar cell application

Rajinder Singh, Ram Bilash Choudhary, Rohit Kandulna



PII: S0022-2860(17)31633-2
DOI: 10.1016/j.molstruc.2017.12.013
Reference: MOLSTR 24632
To appear in: *Journal of Molecular Structure*
Received Date: 12 September 2017
Revised Date: 17 November 2017
Accepted Date: 05 December 2017

Please cite this article as: Rajinder Singh, Ram Bilash Choudhary, Rohit Kandulna, Delocalization of π electrons and trapping action of ZnO nanoparticles in PPY matrix for hybrid solar cell application, *Journal of Molecular Structure* (2017), doi: 10.1016/j.molstruc.2017.12.013

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.

Highlights

- PPY-ZnO nanocomposites were synthesized via in-situ polymerization
- Incorporation of ZnO into PPY provided semi-crystalline behavior
- Electron mobility increased due to higher size of the grain domain
- PPY-ZnO (1:4) nanocomposite imparted better thermal stability
- Almost 1.2 times increase in peak current occurred for PPY-ZnO (1:1)

Download English Version:

<https://daneshyari.com/en/article/7808635>

Download Persian Version:

<https://daneshyari.com/article/7808635>

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