

Accepted Manuscript

Eu Modified Cu₂O Thin Films: Significant Enhancement in Efficiency of Photoelectrochemical Processes through Suppression of Charge Carrier Recombination

Sanjib Shyamala, Paramita Hajraa, Harahari Mandala, Aparajita Beraa, Debasis Sariketa, Ashis Kumar Satpati, Mikalai V. Malashchonak, Alexander V. Mazanik, Olga V. Korolik, Anatoly I. Kulak, Ekaterina V. Skorb, AjunMaity, Eugene A. Streltsov, Chinmoy Bhattacharya

PII: S1385-8947(17)31915-0
DOI: <https://doi.org/10.1016/j.cej.2017.11.004>
Reference: CEJ 17975

To appear in: *Chemical Engineering Journal*

Received Date: 21 July 2017
Revised Date: 26 October 2017
Accepted Date: 1 November 2017

Please cite this article as: S. Shyamala, P. Hajraa, H. Mandala, A. Beraa, D. Sariketa, A.K. Satpati, M.V. Malashchonak, A.V. Mazanik, O.V. Korolik, A.I. Kulak, E.V. Skorb, AjunMaity, E.A. Streltsov, C. Bhattacharya, Eu Modified Cu₂O Thin Films: Significant Enhancement in Efficiency of Photoelectrochemical Processes through Suppression of Charge Carrier Recombination, *Chemical Engineering Journal* (2017), doi: <https://doi.org/10.1016/j.cej.2017.11.004>



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.

Eu Modified Cu₂O Thin Films: Significant Enhancement in Efficiency of Photoelectrochemical Processes through Suppression of Charge Carrier Recombination

Sanjib Shyamal¹, Paramita Hajra¹, Harahari Mandal¹, Aparajita Bera¹, Debasis Sariket¹,
Ashis Kumar Satpati², Mikalai V. Malashchonak³, Alexander V. Mazanik³,
Olga V. Korolik³, Anatoly I. Kulak⁴, Ekaterina V.
Skorb^{5,6}, Ajun Maity^{7,8}, Eugene A. Streltsov³, Chinmoy Bhattacharya^{1*}

¹Indian Institute of Engineering Science & Technology, Shibpur, Howrah–711103, West Bengal, India;

²Analytical Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai–400085, India;

³Belarusian State University, Nezavisimosti Av. 4, 220030 Minsk, Belarus;

⁴Institute of General and Inorganic Chemistry, National Academy of Sciences of Belarus, Surganov St. 9/1, 220072 Minsk, Belarus;

⁵Harvard University, Department of Chemistry & Chemical Biology, Oxford Street, Cambridge 02138, MA, United States;

⁶ITMO University, St. Petersburg 197101, Russian Federation;

⁷DST/CSIR Innovation Centre, National Centre for Nanostructured Materials, Pretoria–0001, South Africa.

⁸University of Johannesburg, Department of Applied Chemistry, South Africa.

*
Email: cbhattacharya.besus@gmail.com

Download English Version:

<https://daneshyari.com/en/article/6581026>

Download Persian Version:

<https://daneshyari.com/article/6581026>

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