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Optical, structural and electrical properties of Zr doped CoSe for photovoltaic application.

CoSe and Zr doped CoSe thin film materials were successfully synthesized via spray pyrolysis technique. The optical, structural and electrical characterization where carried out using UV –visible spectrophotometer, XRD and four point probe at ambient temperature. The materials showed good optical, structural and electrical properties. The energy band gap of the of the material pepared at different Zr dopant concentration at 120OC substrate temperature displayed energy band gaps ranging from 1.2 -1.5 eV. The Zr dopant material improved the absorbance value of the as-prepared undoped CoSe thin materials indicating a good potential for photovoltaic applications

Apply to be considered for a student ; award (Yes / No)?

NO

Level for award;(Hons, MSc, PhD, N/A)?

N/A

Primary author: Dr OCHAI-EJEH, Faith (University of Nigeria, Nsukka)

Co-authors: Dr IKHIOYA, Imosobomeh (Department of Physics and Astronomy, University of Nigeria, Nsukka); EJEH, Ernest (Department of Physics, University of Pretoria, South Africa)

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