

PUBLICATIONS OF THE CNBM NEW ENERGY MATERIALS RESEARCH CENTER FOR 2010-2020

1. A Theoretical Model for Voltage-dependent Photocurrent Collection in CdTe Solar Cells
CX Zhao, KK Chin, in preparation
2. TCO and Front Stack Optimization for CdTe solar cell improvements
P Patra, CX Zhao, AE Delahoy, A Saraf, G Fu, J Pan, P Shou, KK Chin
47th IEEE Photovoltaic Specialists Conference, 2020 Virtual
3. Understanding the role of Chlorine at the front interface in limiting Solar cell efficiency
A Saraf, P Patra, CX Zhao, H Opyrchal, G Fu, B Siepchen, KK Chin
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4. PL Study on the Effect of Cu on the Front Side Luminescence of CdTe/CdS Solar Cells
H Opyrchal, D Chen, Z Cheng, K Chin
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5. System and method for thin film photovoltaic modules and back contact for thin solar cells
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6. Diagnostic Measurements on Metal Oxide CdTe Heterojunction Solar
Alan E. Delahoy, Payal Patra, Akash Saraf, Chirag Shetty, Surya Manda, Yunfei Chen,
Chuanjun Zhang, Jingong Pan, Shou Peng, and Ken K. Chin
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7. How to control the stoichiometry of cadmium telluride thin film for photovoltaic applications
Xuehai Tan, Shou Peng, Chuanjun Zhang, Akash Saraf, Guogen Liu, Shenjiang Xia, Jingong
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8. The Influence of Conduction Band Offset on CdTe Solar Cells
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11. A New TCO/buffer Front Stack for CdTe Solar Cells and its Implementation

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12. Simulation of ZnMgO as the window layer for CdTe solar cells

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13. Cadmium Tin Oxide and Zinc Magnesium Oxide Prepared by Hollow Cathode Sputtering for CdTe Photovoltaics

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14. Semiconductor steady state defect effective Fermi level and deep level transient spectroscopy depth profiling

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15. X-ray photoelectron spectroscopy study of indium tin oxide films deposited at various oxygen partial pressures

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40. Carrier density and compensation in semiconductors with multiple dopants and multiple transition energy levels: Case of Cu impurities in CdTe
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