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R&D in CdTe thin film PV technology

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ABSTRACT

Among the various promising thin-film PV technologies, CdTe has certain special advantages in material processing, and is the fron-trunner in large scale commercialization of thin-film PV. This talk will give an overview of the research and developments in CdTe technology in different laboratories. The role of film deposition ambient in device performance and the possible effect of grain boundary passivation is discussed with experimental results. Practical pathways to enhance the short-circuit current by effectively harvesting the blue light which is otherwise lost by absorption in buffer and window layers is presented.