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Advanced device structures for CIGS solar cells

Cu(In,Ga)(S,Se) (CIGS) is an almost ideal absorber material for thin-film solar cells. Despite a device structure which significantly deviates from the ideal solar cell structure, world record power conversion efficiencies above 22% have been achieved. However, it still owns significant potential for further efficiency increase by applying advanced device structures. This talk will give an overview of the research activities on such advanced device structures which are currently performed at the PVcomB and the Helmholtz Zentrum Berlin.

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