

**Hydrogen states in mixed-cation  $\text{CuIn}_{(1-x)}\text{Ga}_x\text{Se}_2$  chalcopyrite alloys : a combined study by first-principles density-functional calculations and muon-spin spectroscopy**

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**Investigation of the solar cell materials  $\text{Cu}(\text{In,Ga})\text{Se}_2$  and  $\text{Cu}_2\text{ZnSnS}_4$  with muon spin spectroscopy and density-functional calculations**

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