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Structural flexibility of photovoltaic materials: the key to high efficient solar cells

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Compound semiconductors with a high absorption coefficient are the most advanced and most efficient absorber materials in thin film photovoltaic (PV) technologies. Highly efficient devices are based on absorber layers from ternary or quaternary chalcogenides or hybrid halide perovskites. The crystal structures of these materials are based on corner sharing building blocks: tetrahedra (chalcogenides) and octahedra (halides). Their success as PV material lies in the overall structural flexibility.

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