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Graphical Abstract

Rapid development in two-dimensional layered perovskite materials and their application in solar cells

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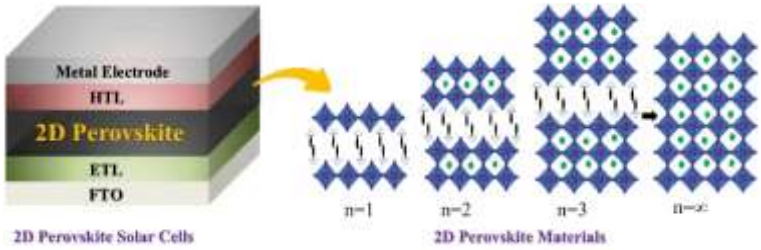

This review summarized recent research progresses of two-dimensional layered organic-inorganic hybrid perovskite materials and their photovoltaic performances in 2D perovskite solar cells.