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Assessing opportunities in highly efficient perovskite solar cells

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Perovskite-based solar cells have made spectacular progress in terms of increased efficiency in the past few years. This rapid progress has created a situation where the technological advances measured by power-conversion efficiencies have proceeded much more quickly than the basic science necessary to understand working of the devices. In this presentation, discussion of gaps and possible solutions to perovskite solar cell will be presented, with special reference to defects, carrier diffusion length and minority carrier lifetime.

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