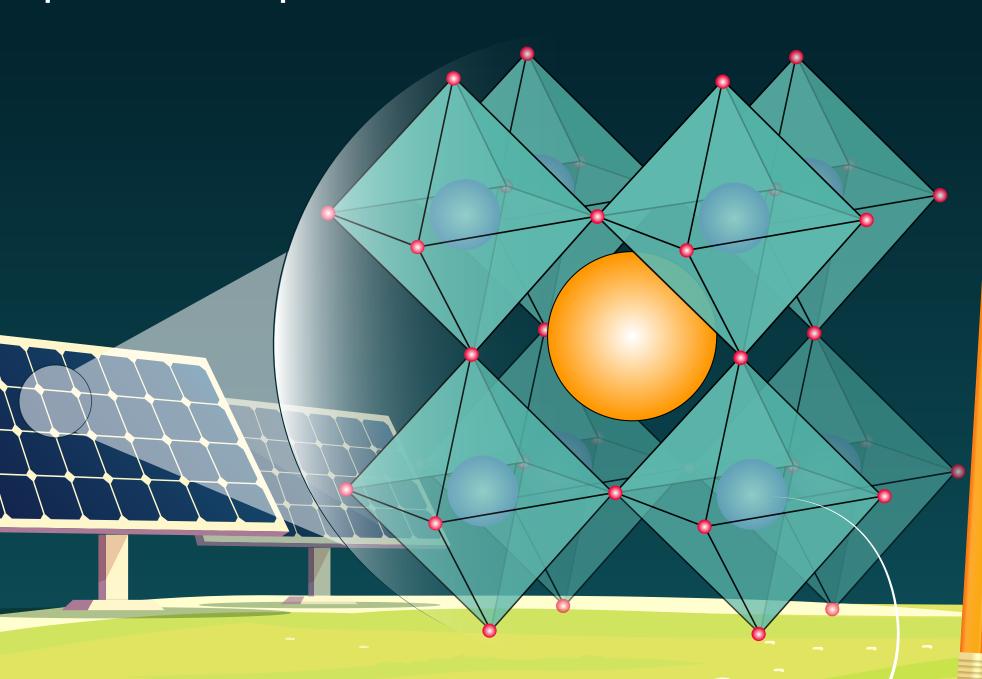
Electronic Supplementary Material (ESI) for Chemical Science.

A Pencil and Paper Approach for Identifying Exciting New Halide Double Perovskites

Lead-halide 3D perovskites show promising photovoltaic performance

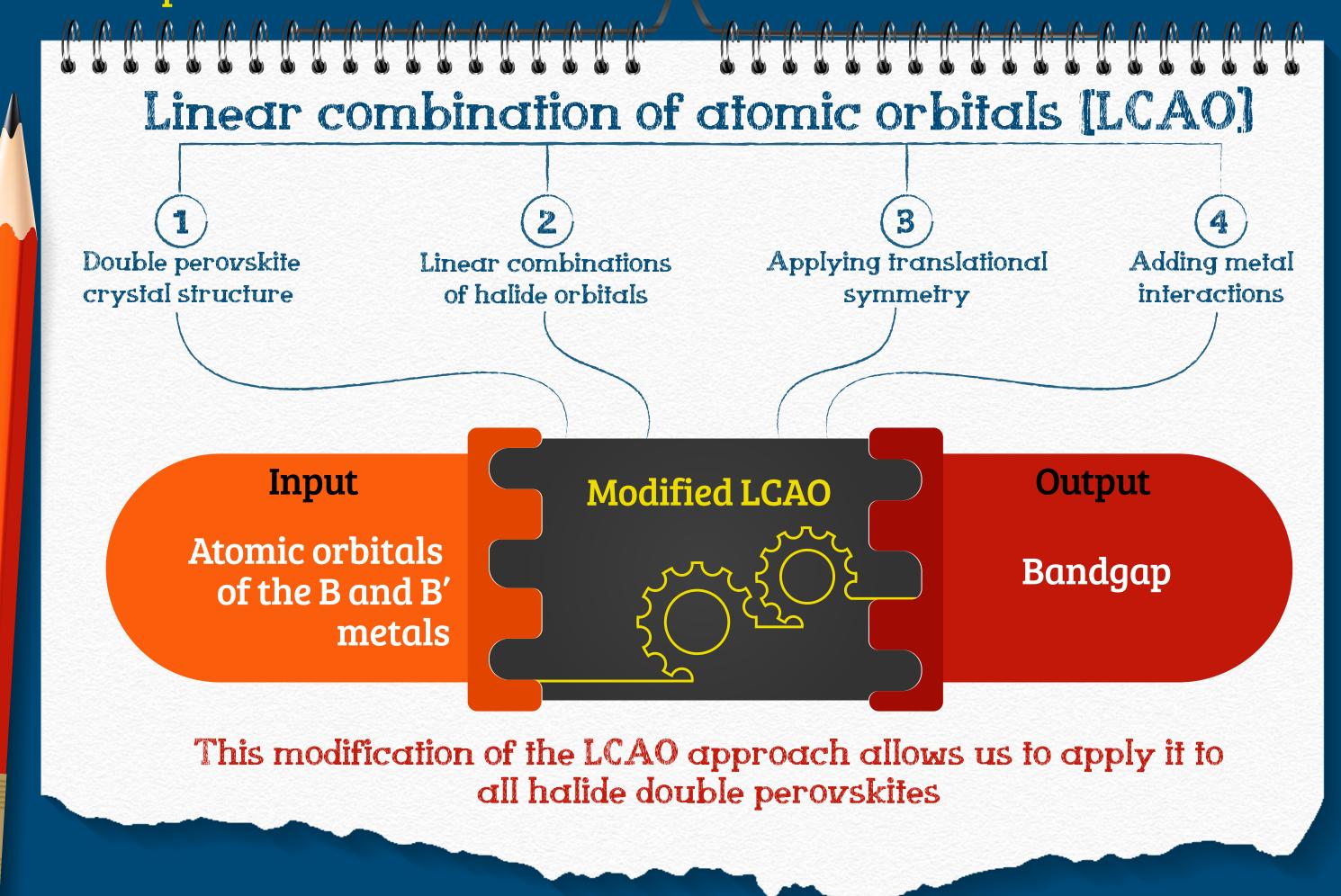


But, the toxic lead content makes them less desirable



Double perovskites (A₂BB'X₆) can be a suitable alternative, but they have complex and diverse electronic structure

A theoretical method to predict perovskites with suitable bandgaps to act as potential solar absorbers



The modified LCAO approach is expected to help the synthesis of new and interesting double perovskite compositions which can act as potential solar absorbers





A pencil-and-paper method for elucidating halide double perovskite band structures



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