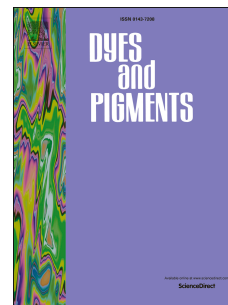


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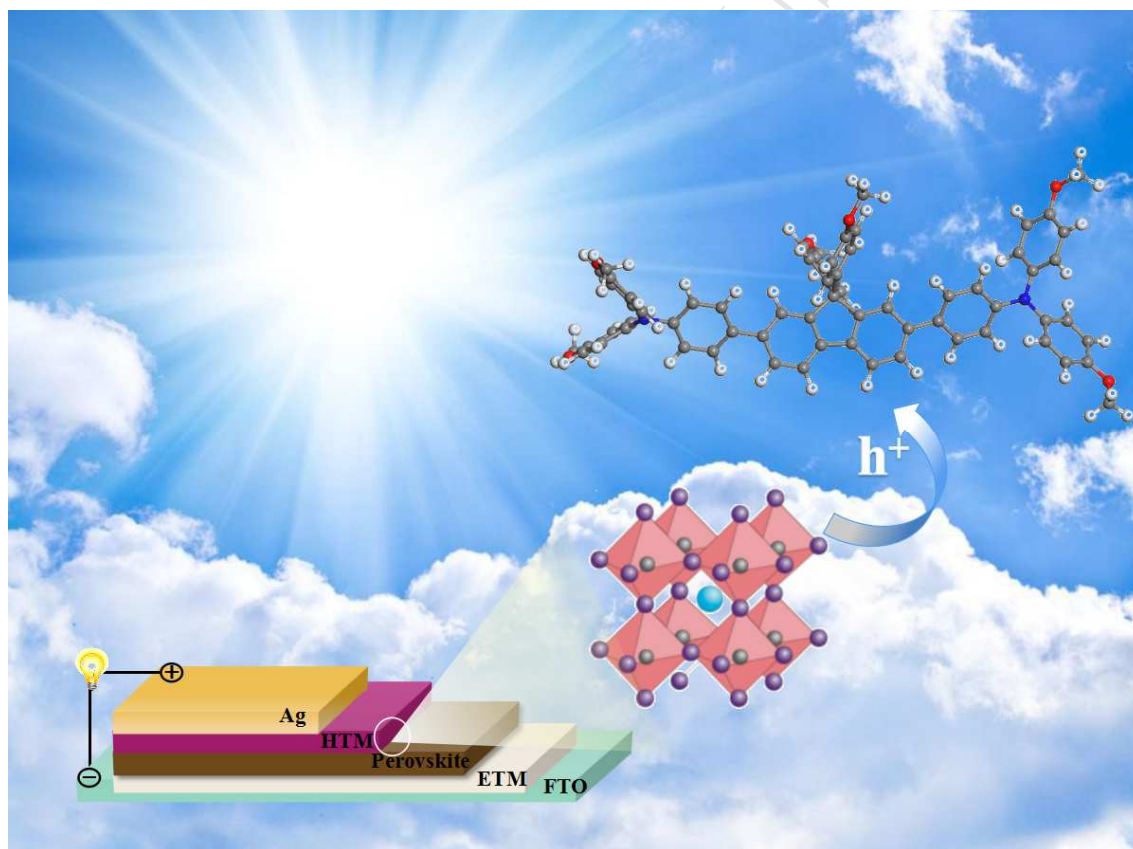
Graphical Abstract

A rational design of hole-transport small molecules based on fluorene with different modified groups for organic lead-halide perovskite solar cells

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