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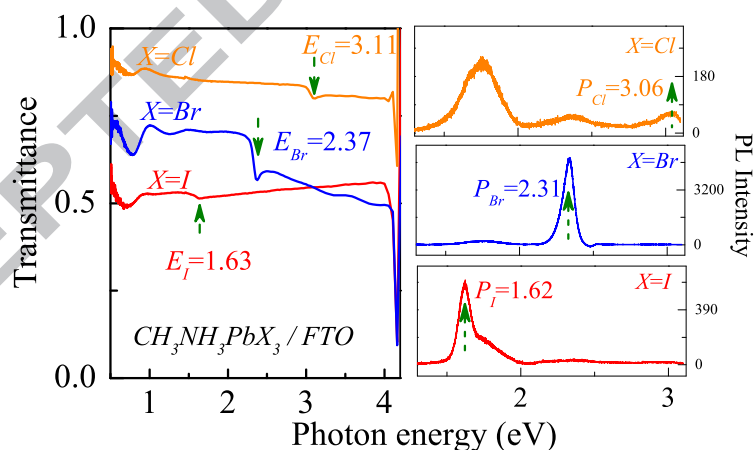
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Graphical abstract. Evolution of the optical transition for the $\text{CH}_3\text{NH}_3\text{PbX}_3$ ($X=\text{I}/\text{Br}/\text{Cl}$) films with different halogen substitution.



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