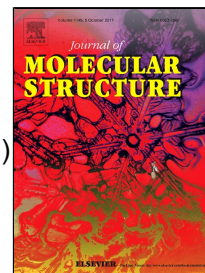


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Halobismuthate/diphenyliodonium hybrids stabilized by secondary hypervalent I(III)···X interactions: structures, optical studies and thermochromisms



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- Diphenyliodonium cations were firstly introduced into halobismuthate system to synthesize two new hybrids with isostructures
- Hypervalent I(III)···X interactions and C-H···X hydrogen bonds contribute to their structural extension.
- Two compounds display thermochromism behaviors, and the mechanisms were verified by theoretical calculations

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