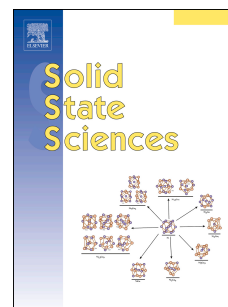


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Halogen bond preferences of thiocyanate ligand coordinated to Ru(II) via sulphur atom

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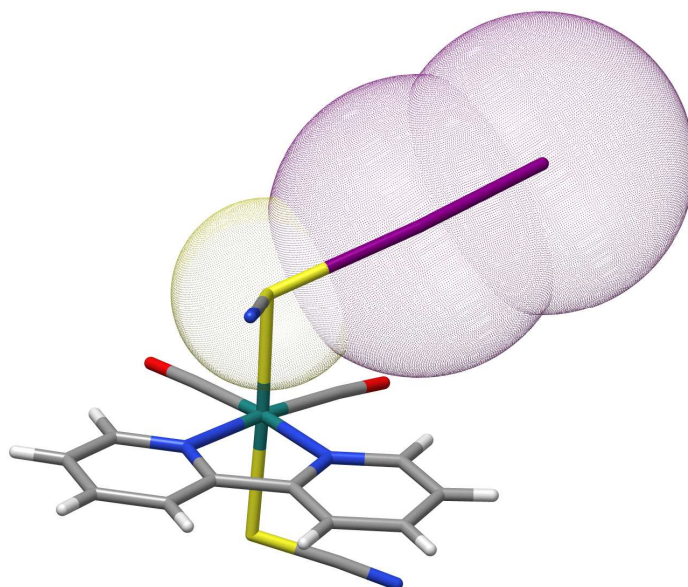
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## Graphical abstract for

**Halogen Bond Preferences of Thiocyanate Ligand  
Coordinated to Ru(II) via Sulphur Atom**Xin Ding,<sup>a</sup> Matti Tuikka,<sup>a</sup> Pipsa Hirva<sup>b</sup> and Matti Haukka,<sup>a</sup><sup>a</sup> University of Jyväskylä, Department of Chemistry, P.O.Box 35, FI-40014 University of Jyväskylä, Finland. E-Mail: matti.o.haukka@jyu.fi.<sup>b</sup> University of Eastern Finland, Department of Chemistry, P.O. Box 111, FI-80101 Joensuu, Finland.

Halogen bonding (XB) between  $[\text{Ru}(\text{bpy})(\text{CO})_2(\text{S}-\text{SCN})_2]$  ( $\text{bpy} = 2,2'$ -bipyridine) and  $\text{I}_2$  was studied by co-crystallizing the metal compound and diiodine from dichloromethane solution. Halogen bond between Ru coordinated S and  $\text{I}_2$  was found to be the preferred halogen bond mode. No crystalline XB adduct with  $\text{I} \cdots \text{N}$  contact was observed.

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