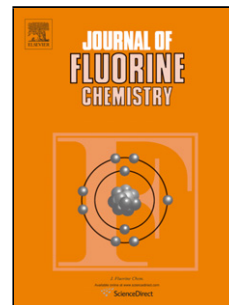


## Accepted Manuscript

Title: Structures and optical spectroscopy of lanthanide trifluoroacetates obtained from hexafluoroacetylacetone

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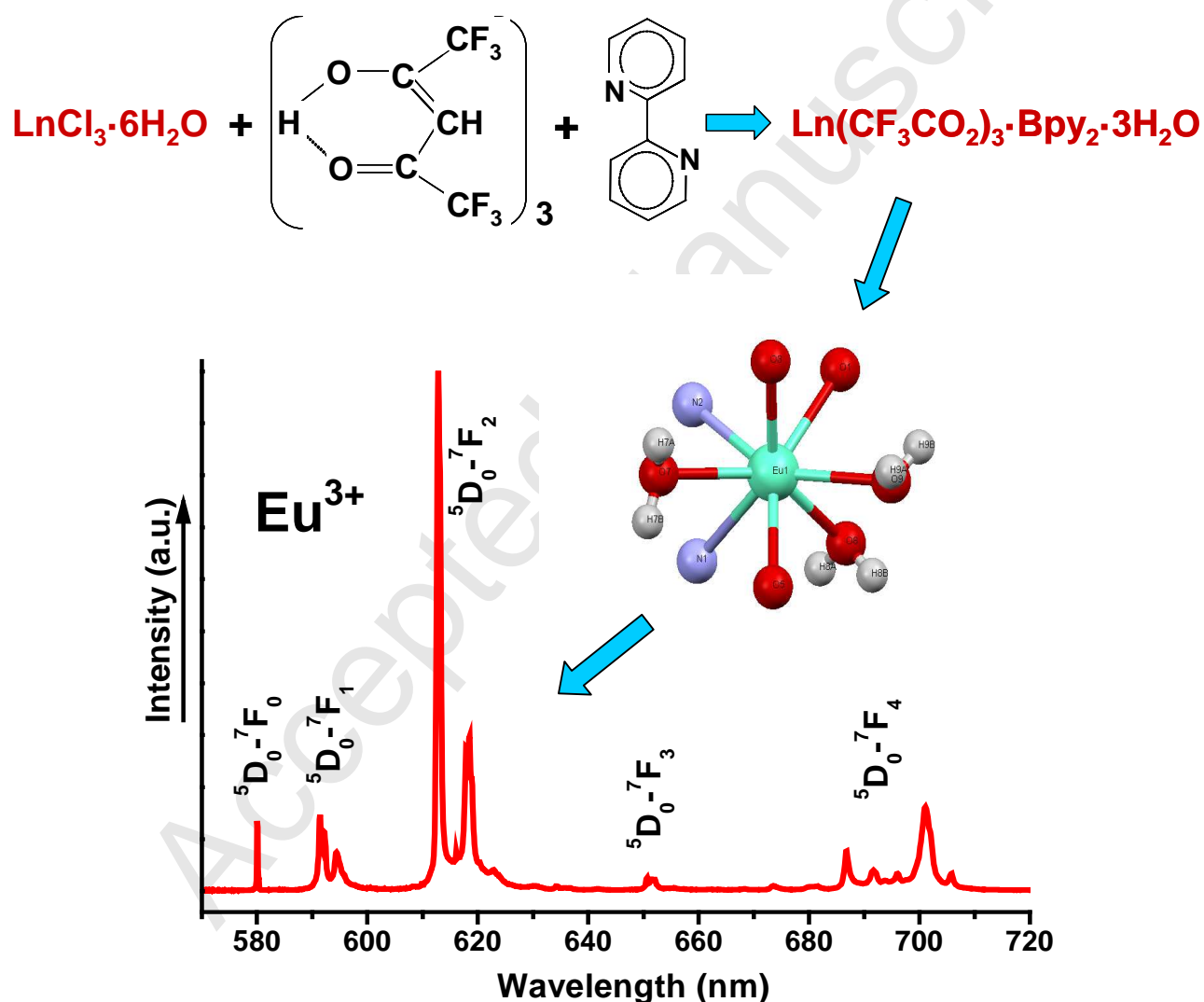
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Lanthanide trifluoroacetates containing coordinated and outsphere heterocyclic diimine molecules were prepared in an unusual way from hexafluoroacetylacetone. A distorted square anti-prismatic coordination geometry of the  $\text{Ln}^{3+}$  luminescence center, lifetimes of the  $^5\text{D}_0$  ( $\text{Eu}^{3+}$ ) and  $^5\text{D}_4$  ( $\text{Tb}^{3+}$ ) emitting states, luminescence efficiencies, and excitation energy transfer processes are analysed. Spectroscopic signs of the  $\text{Ln}^{3+}$  trifluoroacetates and hexafluoroacetylacetonates are discussed.



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