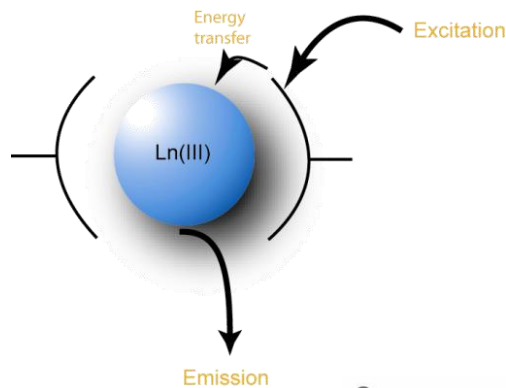
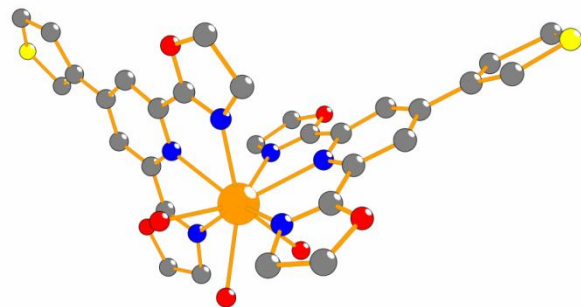
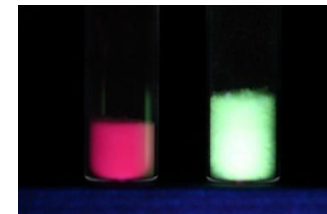


Tailoring of ligand functionalization for improved Ln(III)-centered emission in Eu(III) and Tb(III) complexes

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f-f transitions in lanthanide ions Ln(III) lead to characteristic light emission with pure and intense colors. To harness this property ligands are utilized as sensitizers. Our group develops thiophene-derivatized ligands for Ln(III)-based precursors for luminescent polymers. We study the solid state structure and photophysical characteristics of the developed complexes and of their solutions.



	Φ / %	τ / ms	1S / cm^{-1}	3T / cm^{-1}
Eu	76.2	2.097	28,310	21,080
Tb	58.6	0.367/0.019		

