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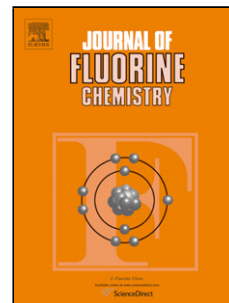
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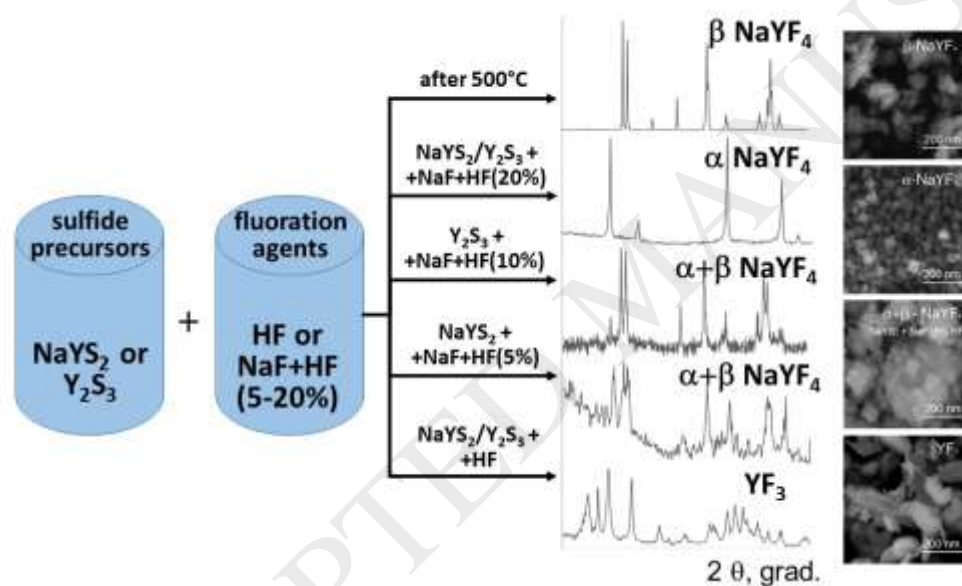
# Synthesis of NaYF<sub>4</sub> compounds from sulfide precursors

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## Graphical abstract



## Highlights

- The α-NaYF<sub>4</sub> compound was synthesized from Y<sub>2</sub>S<sub>3</sub> or NaYS<sub>2</sub> and NaF+HF(20%).
- The mixing α- and β- compounds were synthesized from Y<sub>2</sub>S<sub>3</sub> or NaYS<sub>2</sub> and NaF+HF(5-15%).
- After heat treatment (500°C) the α-NaYF<sub>4</sub> compound moved into a β-NaYF<sub>4</sub> compound of hexagonal crystal structure.

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