

Accepted Manuscript

Title: Tuning the luminescence properties of samarium and dysprosium complexes by Ag@SiO₂ nanoparticles

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PII: S1010-6030(18)30384-8
DOI: <https://doi.org/10.1016/j.jphotochem.2018.07.030>
Reference: JPC 11396

To appear in: *Journal of Photochemistry and Photobiology A: Chemistry*

Received date: 28-3-2018
Revised date: 12-7-2018
Accepted date: 19-7-2018

Please cite this article as: Kang J, Zhao Y, Chu H, Zhao Y, Tuning the luminescence properties of samarium and dysprosium complexes by Ag@SiO₂ nanoparticles, *Journal of Photochemistry and Photobiology, A: Chemistry* (2018), <https://doi.org/10.1016/j.jphotochem.2018.07.030>

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Tuning the luminescence properties of samarium and dysprosium complexes by Ag@SiO₂ nanoparticles

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Highlights

- Two kinds of Ag@SiO₂ nanoparticles with different shell thicknesses are prepared.
- Eight kinds of samarium and dysprosium complexes are synthesized.
- The luminescence intensities of the complexes are enhanced by Ag@SiO₂ nanoparticles.
- The position of NH₂ affects the luminescence enhancement times of the complexes.
- The enhancement time varies with the shell thickness of Ag@SiO₂ nanoparticles.

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