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Authors: Jie Kang, Yanfang Zhao, Haibin Chu, Yongliang

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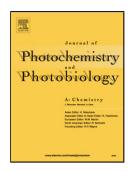
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### ACCEPTED MANUSCRIPT

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

Jie Kang<sup>1,2</sup>, Yanfang Zhao<sup>1,3</sup>, Haibin Chu<sup>1\*</sup>, Yongliang Zhao<sup>1\*\*</sup>

- <sup>1</sup>. College of Chemistry and Chemical Engineering, Inner Mongolia University, Hohhot 010021, China:
- <sup>2</sup>. College of Chemistry and Chemical Engineering, Jining Normal University, Jining, 012000, China:
- <sup>3</sup>. Inner Mongolia Vocational College of Chemical Engineering, Huhhot 010070, China
- \* Corresponding author: E-mail addresses:chuhb@imu.edu.cn (H.B. Chu).
- \*\*E-mail addresses: hxzhaoyl@163.com(Y.L. Zhao).

#### **Highlights**

- Two kinds of Ag@SiO<sub>2</sub> 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@SiO<sub>2</sub> nanoparticles.
- The position of NH<sub>2</sub> affects the luminescence enhancement times of the complexes.
- The enhancement time varies with the shell thickness of Ag@SiO<sub>2</sub> nanoparticles.

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