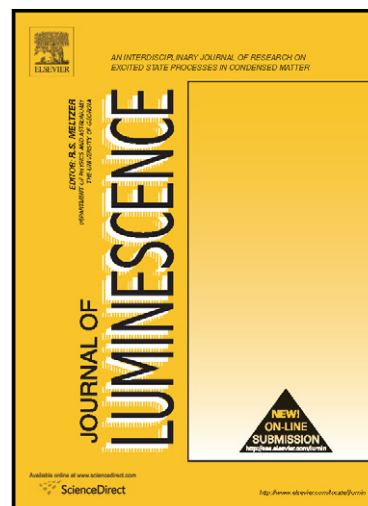


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A novel Triazole-based fluorescent Chemosensor for Zinc Ions

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Abstract

This work describes the preparation of novel triazole-based heterocycles and their properties concerning UV-Vis absorption and fluorescence emission with and without the presence of metal ions. It is shown that this compound can be used to determine Zn^{2+} ion with high selectivity. Therefore, the new compounds are recommended as possible species for the development of new fluorescent probes for the detection of Zn^{2+} cation.

Highlights

Luminescence spectra of Zn(III) complex using triazole ligands were characterized.
New Triazole based ligands exhibiting fluorescence are reported
Selectivity concerning Zn-ions is established

Keywords

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