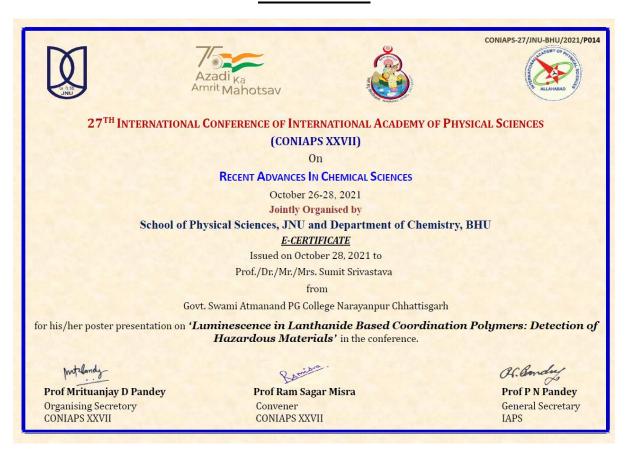
Certificate



Abstract

Luminescence in Lanthanide Based Coordination Polymers: Detection of Hazardous Materials

Sumit Srivastava*

Department of Chemistry, Govt. Swami Atmanand PG College, Narayanpur, Chhattisgarh-494661

sumitchm@gmail.com

Lanthanide based coordination polymers (LCP) are the unique class of materials due to their structural chemistry and assorted applications. One of the applications of LCP is photoluminescence property that is extensively explored in the recent years due to their real-world application in the field of detection of hazardous materials. In the synthesis of LCP, a π bond conjugated suitable ligand reacts with lanthanide metal ion generates the 1D, 2D, and 3D

LCP. On the other hand, generated LCP containing accessible Lewis acidic metal sites along with Lewis basic sites on the ligand that can be recognize the small substrates as well as cations. In this abstract, attempts have been shown to generalize the design concept for sensing of hazardous materials.

