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


CONIAPS-27/JNU-BHU/2021/P014




**27TH INTERNATIONAL CONFERENCE OF INTERNATIONAL ACADEMY OF PHYSICAL SCIENCES
(CONIAPS XXVII)**


On
RECENT ADVANCES IN CHEMICAL SCIENCES
October 26-28, 2021
Jointly Organised by
School of Physical Sciences, JNU and Department of Chemistry, BHU
E-CERTIFICATE
Issued on October 28, 2021 to
Prof./Dr./Mr./Mrs. Sumit Srivastava
from
Govt. Swami Atmanand PG College Narayanpur Chhattisgarh
for his/her poster presentation on '**Luminescence in Lanthanide Based Coordination Polymers: Detection of Hazardous Materials**' in the conference.



Prof Mrituanjay D Pandey
Organising Secretary
CONIAPS XXVII



Prof Ram Sagar Misra
Convener
CONIAPS XXVII



Prof P N Pandey
General Secretary
IAPS

Abstract

Luminescence in Lanthanide Based Coordination Polymers: Detection of Hazardous Materials

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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.

