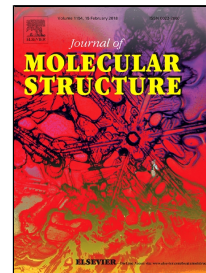


# Accepted Manuscript

Design of smart optical sensor using polyvinyl alcohol/Fluorescein sodium salt:  
Laser filters and Optical limiting effect



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**Highlights**

- 1- PVA/Fluorescein-Sodium salt polymeric composite films have been synthesized.
- 2- Smart wide scale CUT-OFF optical filters were designed in FSS /PVA films.
- 3- Band gap engineering of FS/PVA was analyzed by using Tauc's model.
- 4- The dielectric permittivities have been calculated and analyzed.
- 5- The normalized power vs. the wt % FSS dye for FSS/PVA films is investigated.

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