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Effect of solvent on the key properties of Al doped ZnO films prepared by nebulized spray pyrolysis technique

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#### ACCEPTED MANUSCRIPT

### Highlights

- 1) Good quality AZO films have been deposited by nebulized spray pyrolysis technique.
- 2) X-ray diffraction and FT-Raman studies were confirms their good crystalline nature.
- 3) Deposited films are of high optical transparency confirmed by UV-Vis-NIR study.
- 4) Optical band gap is found in the range from 3.34 to 3.28 eV for 5ml to 15ml solution.
- 5) Thin films possess high n (3.54x10 $^{20}$  cm $^{-3}$  ) and  $\rho$  (4.37x10 $^{-3}$   $\Omega$ -cm) values at 15ml solution.

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