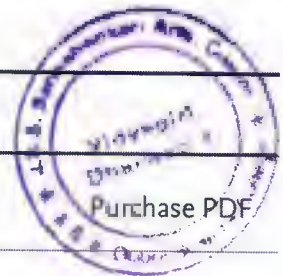


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Full length article

## Highly sensitive fiber grating chemical sensors: An effective alternative to atomic absorption spectroscopy

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### Highlights

- Two highly sensitive concentration sensors have been developed using FBG and LPG.
- Designed sensors are used to measure Zn(ppm) in drinking water from different areas.
- Results obtained by the two sensors are comparably equal.
- Sensitivities of FBG & LPG sensors are found to be 3.47 & 712 nm/ppm

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