**Electronic Supplementary Information**

**Morphology dependent photocatalytic efficacy of Zinc Ferrite probed for Methyl Orange degradation**

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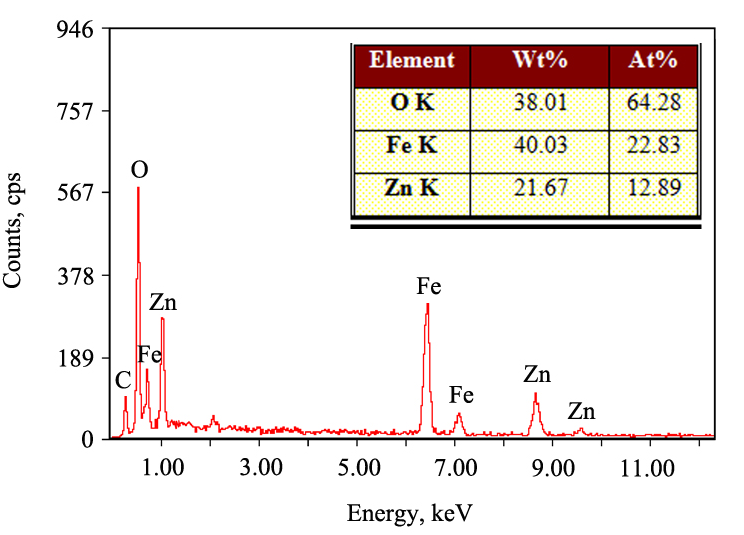


Fig. 1S. EDS pattern of NZFO sample.

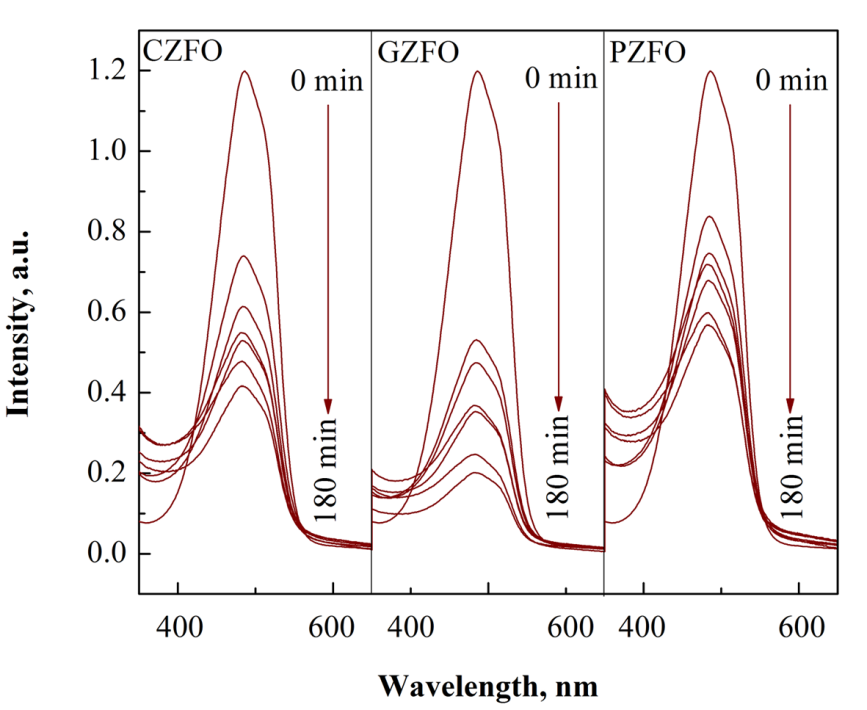


Fig. 2S. UV-Vis absorption spectra of MO solution after different reaction periods over different samples.

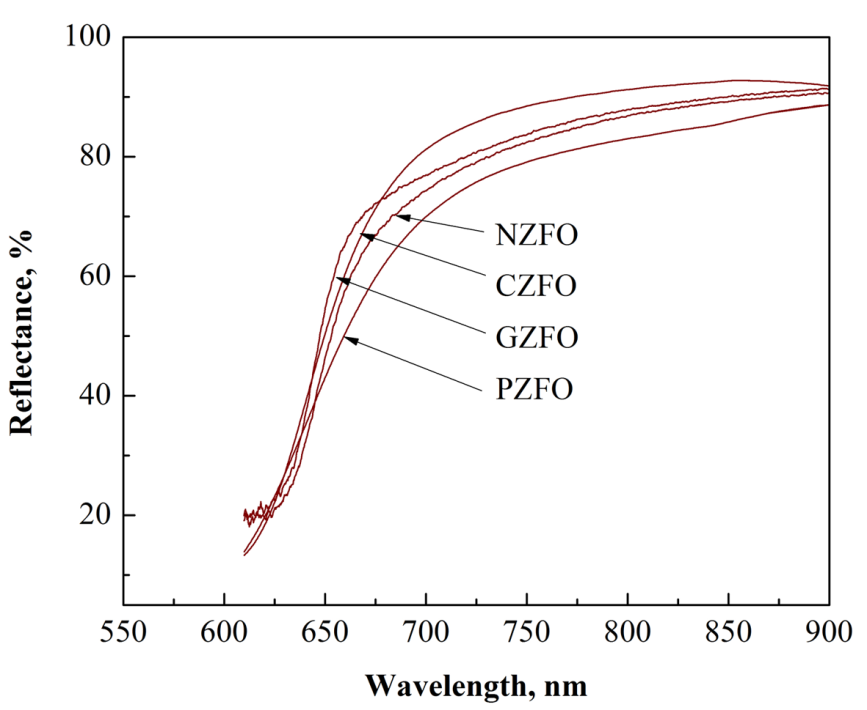
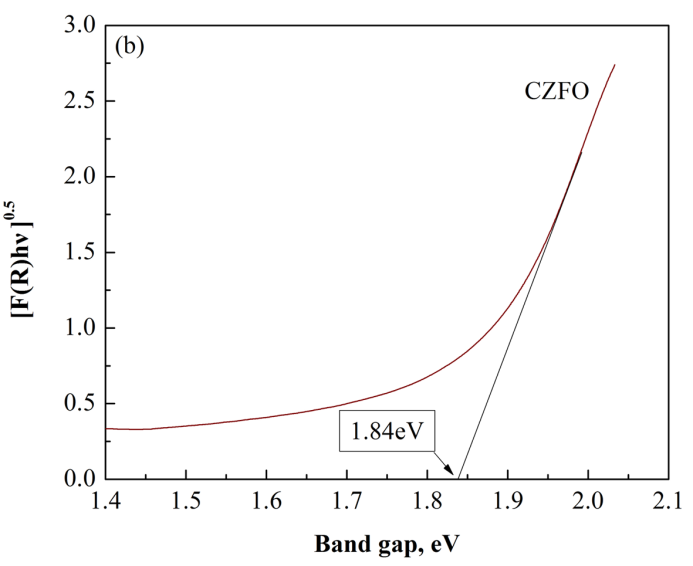
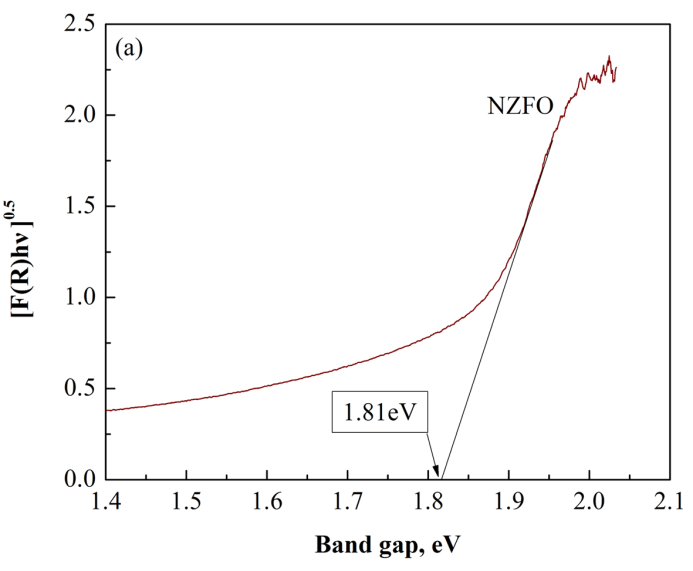


Fig. 3S. UV-vis DRS spectra of the obtained samples.



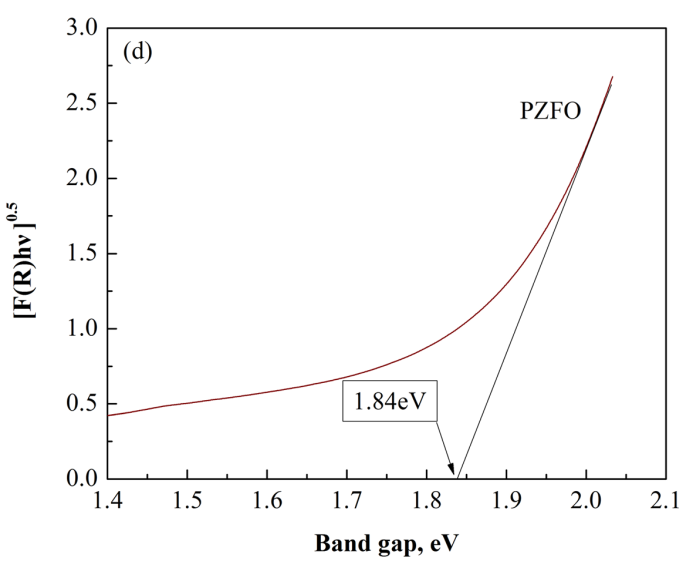
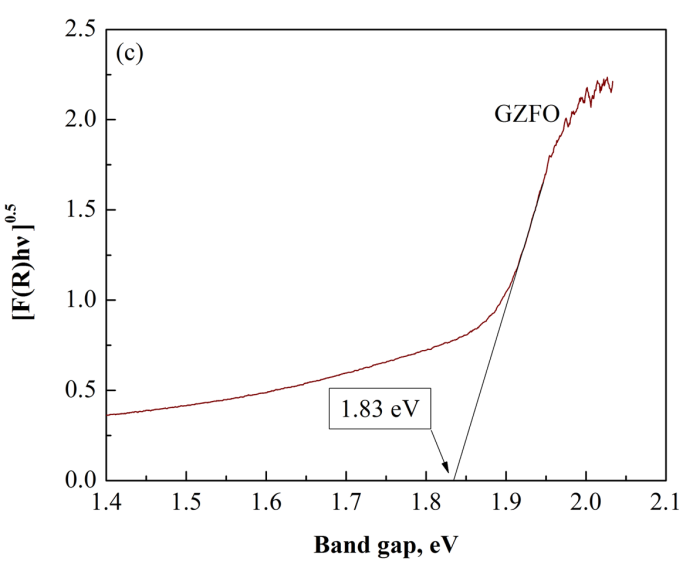


Fig. 4S. The relationships between [F(R)·hυ]0.5 and band gap of (a) NZFO, (b) CZFO, (c) GZFO and (d) PZFO.

Table 1S Particle sizes obtained using FESEM, average crystallite sizes calculated from XRD and specific surface area of NZFO, CZFO, GZFO and PZFO

|  |  |  |  |
| --- | --- | --- | --- |
| Sample | Particle sizes measured using FESEM (nm) | average crystallite sizes calculated from XRD (nm) | specific surface area  (m2 g-1) |
| NZFO | 400-500 in length 30-40 in diameter | 41 | 26.27 |
| CZFO | 100-700 | 125 | 5.38 |
| GZFO | 200-300 | 96 | 9.04 |
| PZFO | >2000 | 163 | 3.92 |

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