Correction to: Enhanced optical and electrical properties of Y-doped ZnO nanoparticles having different Y concentrations

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In this article, the wrong figure appeared as Fig. 1; the figure should have appeared as shown below (Fig. 1).

Concomitantly, the texts in “Results and Discussions” should be revised as follows.

3. Results and Discussions

Figure 1 shows the morphologies of $\text{Zn}_{1-x}\text{Y}_x\text{O}$ ($x = 0, 0.005, 0.01, 0.015, 0.02$) thin films. As seen in Fig. 1, nanoparticles which are mostly dot-like particles are formed on the thin films. Figure 1a) is SEM picture of undoped ZnO sample. Although the structure has an almost homogeneous and dense appearance, the spaces on the structure draw attention. This

shows that there is no complete aggregation in the molecules for pure ZnO. With these gaps, defective areas are created. The sizes of these dot-like particles vary nearly in the interval of 60–100 nm. Figure 1b) represents the SEM image of 0.5% Y doped ZnO. It is clearly seen that the surface becomes homogeneous and void-free with doping. These dot-like particles ranging around 30–100 nm in sizes are formed. Figure 1c) depicts the $\text{Zn}_{0.99}\text{Y}_{0.01}\text{O}$ film whose morphology is in the form of dot having about 22–46 nm sizes. The grain shape is clearly defined. Figure 3 d) is SEM image of $\text{Zn}_{0.985}\text{Y}_{0.015}\text{O}$ sample. The sizes of dot-like particles change from 15 nm to 20 nm. Lastly, Fig. 1e) shows the surface morphology of 2% Y doped ZnO sample. The average sizes of the dot-like particles are about 15–45 nm. Moreover, all of YZO films exhibit homogenous and dense distributions.

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Fig. 1 The transmittance spectra of the synthesized $\text{Zn}_{1-x}\text{Y}_x\text{O}$ ($x = 0, 0.005, 0.01, 0.015, 0.02$) nanoparticles

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