# Issues on 10.1016/j.hybadv.2023.100050

This is a Post Publication Review on the article [1]. Incorrect Tauc plot, as well as irrelevant references are found.
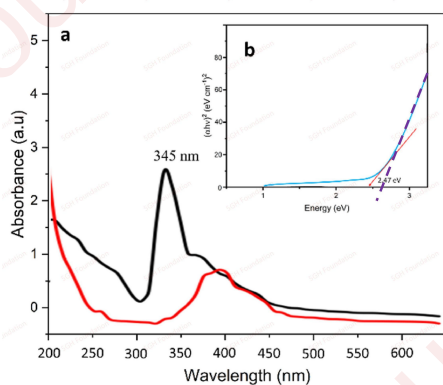
## 10.1016/j.hybadv.2023.100050

*5 𝒢ℋ* Foundation



**Figure 1:**
- ➢ **Incorrect Tauc plot: the red solid line**
- ➢ **The expected Tauc plot: purple dashed line**

**Irrelevant references:**

digestive issues [18].
   Nanoscience concerns the development of nanoparticles for ideal applications. As a result of the ideal synthesis approach that uses no hazardous chemicals and follows all green chemistry principles, the green synthesis method has gained the most attention today among all top-down or bottom-up synthesis methods for fabricating nanoparticles [19]. Plants, bacteria, fungi, and algae can contribute to green synthesis. As well as eliminating pollution and its detrimental effects on the envi...

[19] O. Habbal, et al., Antibacterial activity of lawsonia inermis linn (henna) against Pseudomonas aeruginosa, Asian Pac. J. Trop. Biomed. 1 (3) (2011) 173–176, https://doi.org/10.1016/S2221-1691(11)60021-X.

in their efficacy.
   The elemental composition of Ag–ZnO NCs can be determined qualitatively and quantitatively using EDX [26]. Material composition is determined by the position and intensity of peaks, while concentration is...

[26] Katrin Ebrahimi, Sima Shiravand, Hossein Mahmoudvand, Biosynthesis of copper nanoparticles using aqueous extract of Capparis spinosa fruit and investigation of its antibacterial activity, Marmara Pharm. J. 21 (4) (2017) 866–871.

The authors applied the Tauc plot method to estimate the bandgap of the obtained Ag-ZnO nano crystals. The expected fitting should be applied to the linear part of the $(\alpha h v)^2$ vs $hv$ curve, as shown with the purple dashed line, instead of the red solid line the authored used.

Meanwhile, several references, such as Ref 18, and Ref 26, are found to be irrelevant to the citing statement on the main text.

[1] 10.1016/j.hybadv.2023.100050

---