

In Situ Growth and UV Photocatalytic Effect of ZnO Nanostructures on a Zn Plate immersed in Methylene Blue

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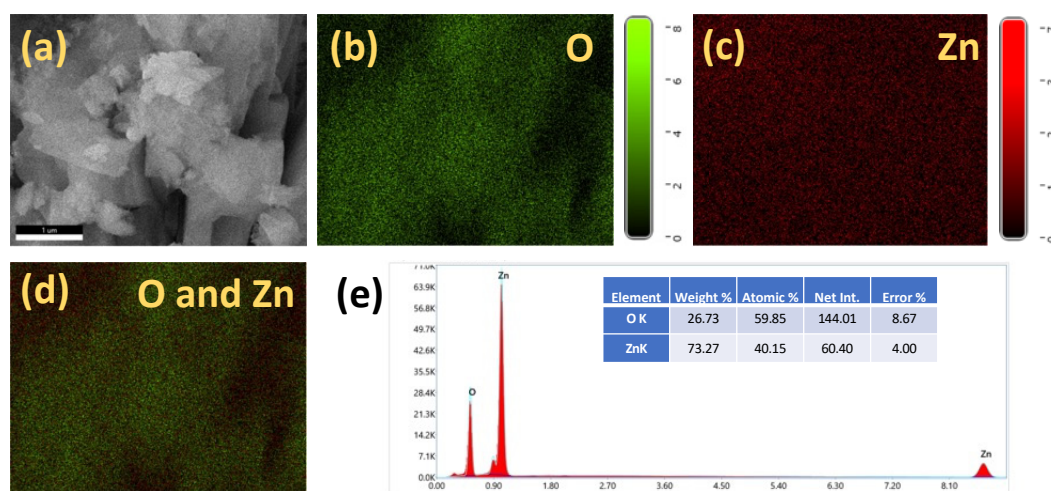


Figure S1. (a) SEM image and (b–d) corresponding EDS maps of irregularly shaped ZnO nanostructures grown on Zn surface in MB and with UV light, and (e) elemental composition of the same.

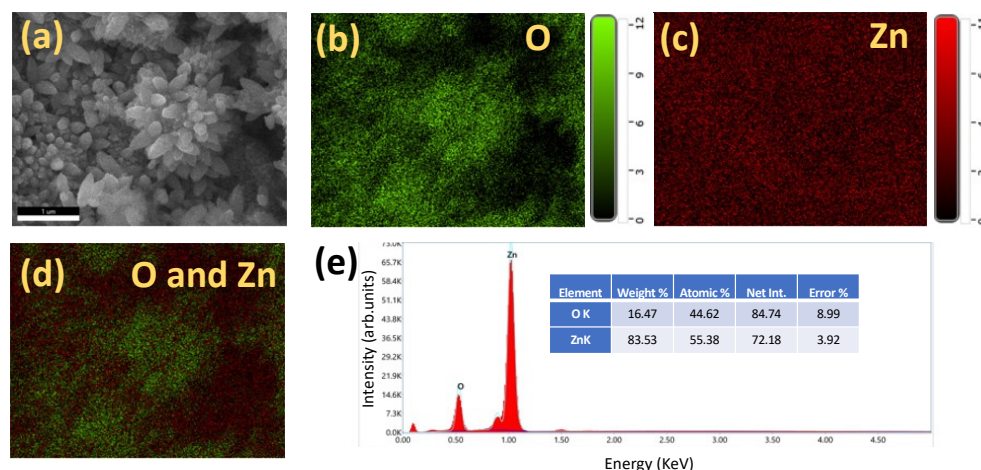


Figure S2. (a) SEM image and (b–d) corresponding EDS maps of ZnO nanostructures grown on Zn surface in MB and without UV light, and (e) elemental composition of the same.

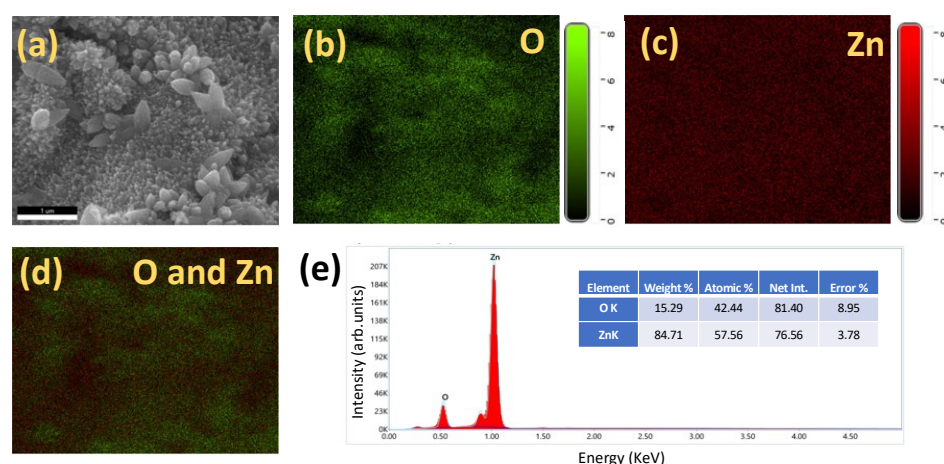


Figure S3. (a) SEM image and (b–d) corresponding EDS maps of ZnO nanostructures grown on Zn surface in DI water and with UV light, and (e) elemental composition of the same.

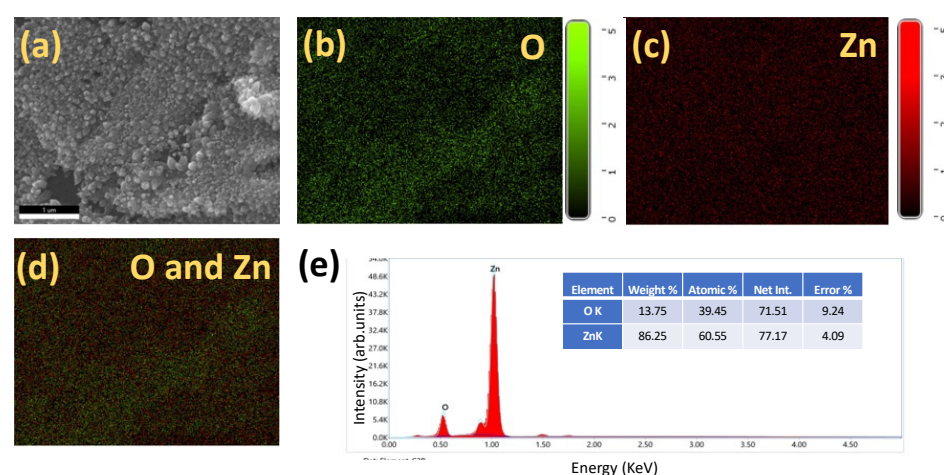


Figure S4. (a) SEM image and (b–d) corresponding EDS maps of ZnO nanostructures grown on Zn surface in DI water and without UV light, and (e) elemental composition of the same.

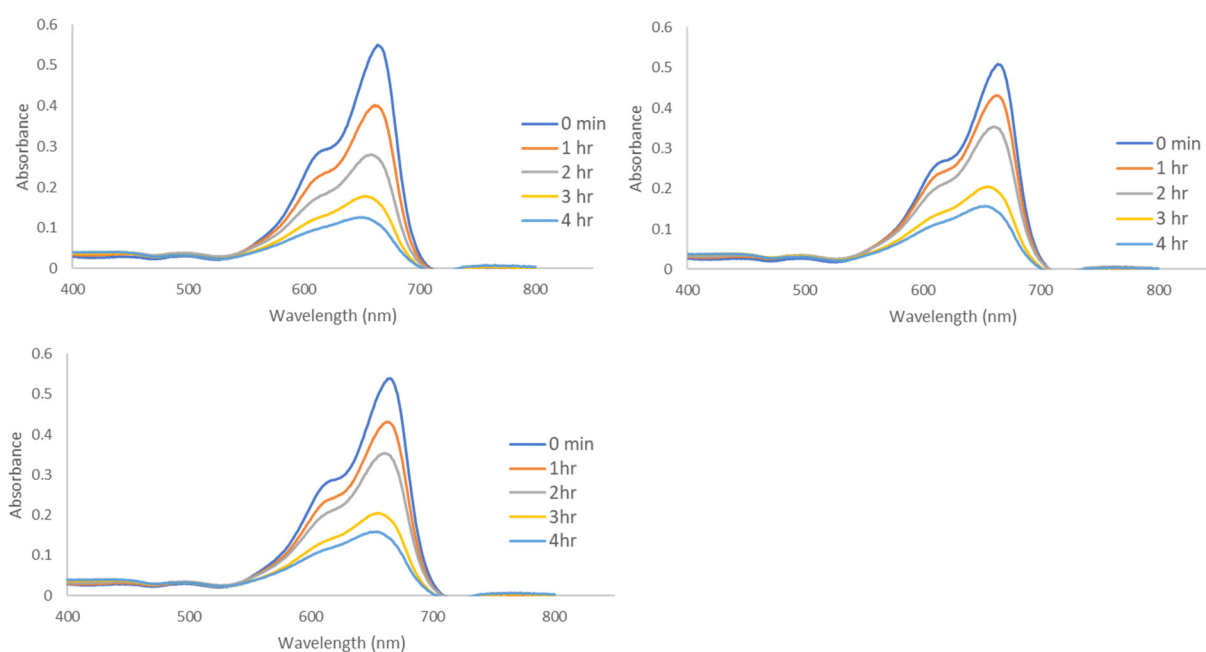
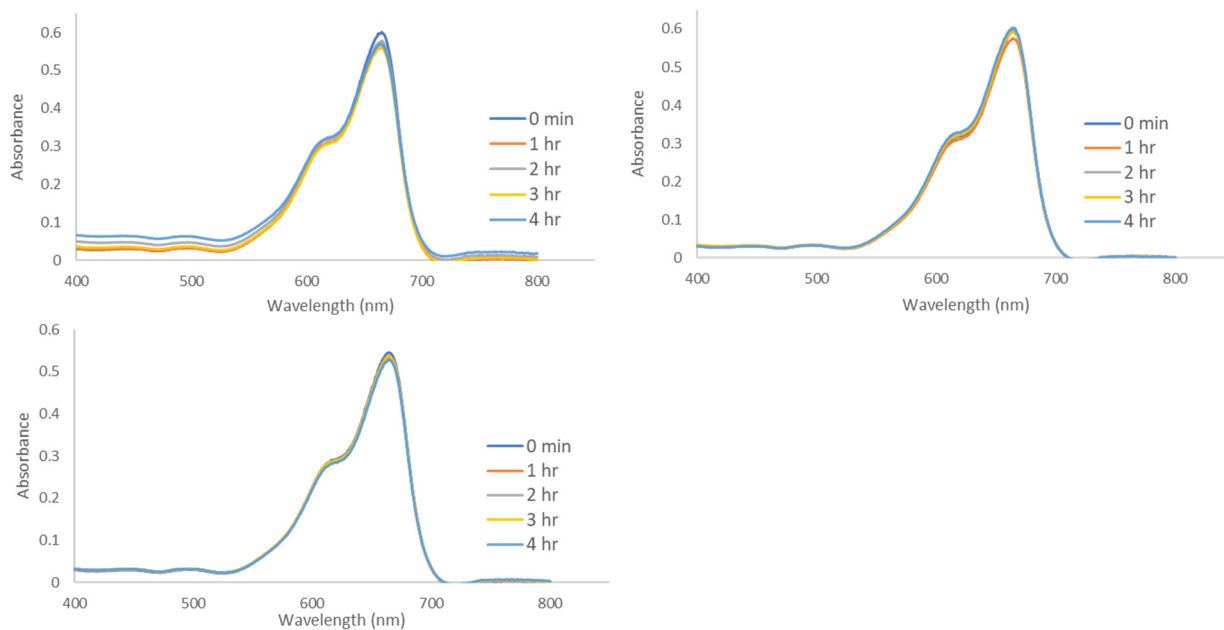
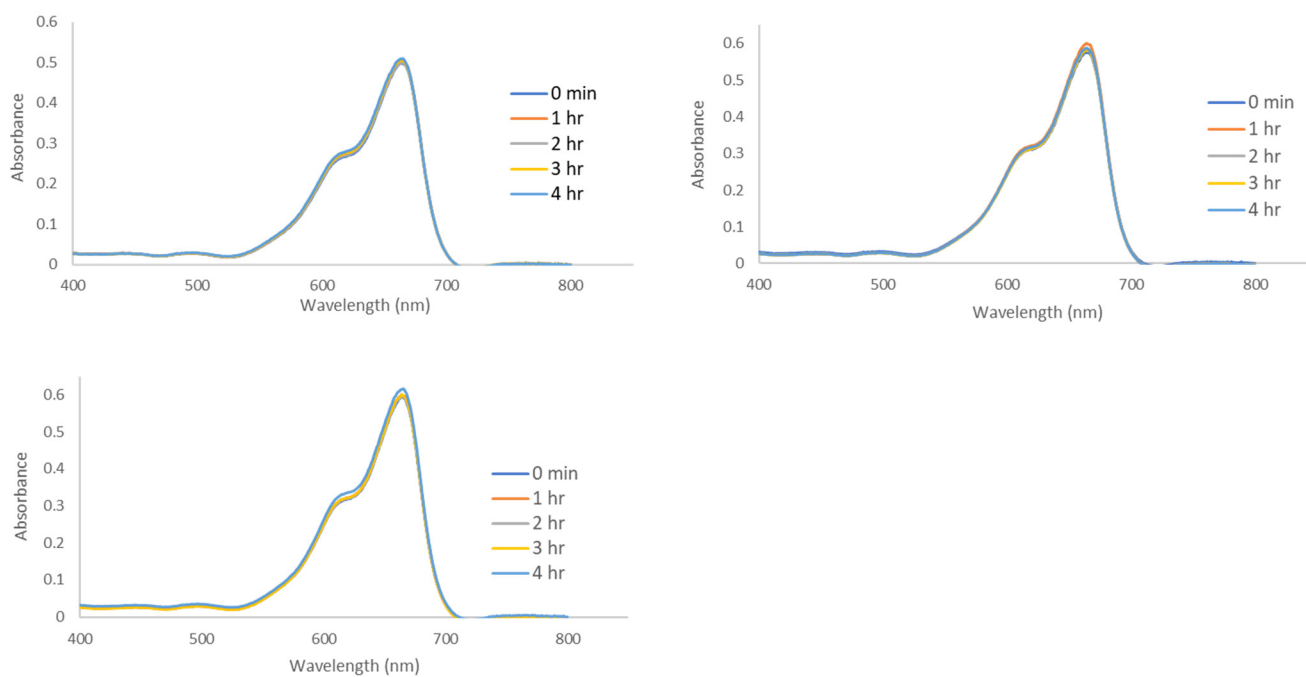


Figure S5. Time dependent UV-Vis spectra of MB with ZnO nanostructures and UV light.**Figure S6.** Time dependent UV-Vis spectra of MB with ZnO nanostructures without UV light.**Figure S7.** Time dependent UV-Vis spectra of MB with UV light only.