Supporting Information

Microwave-assisted synthesis of Graphene-ZnO (Gr-ZnO) nanorods for efficient solar photocatalytic removal of Methylene blue as a model pollutant dye

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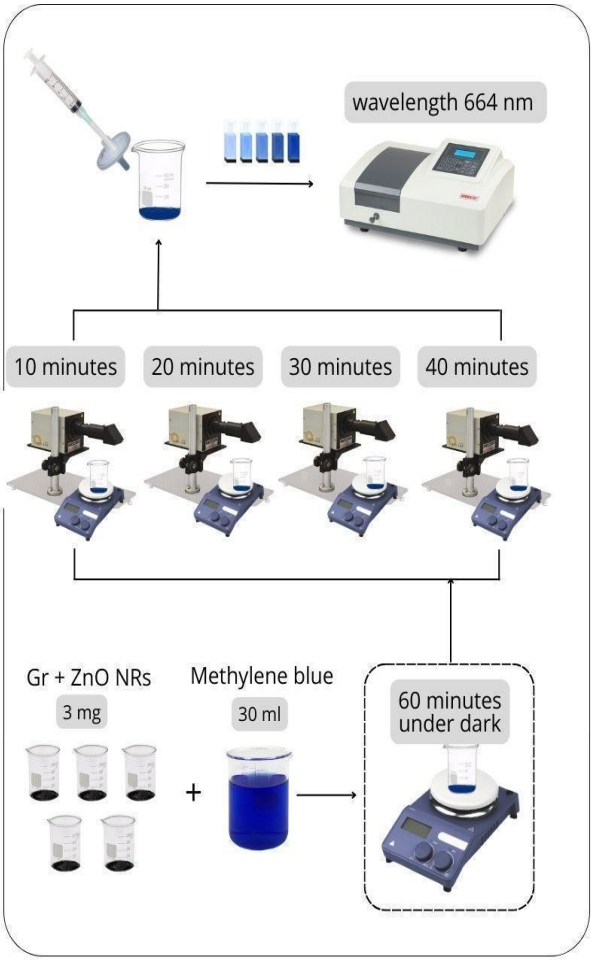

Figure S1. Experimental setup for photocatalytic tests using LCS-100 solar simulator at room temperature.

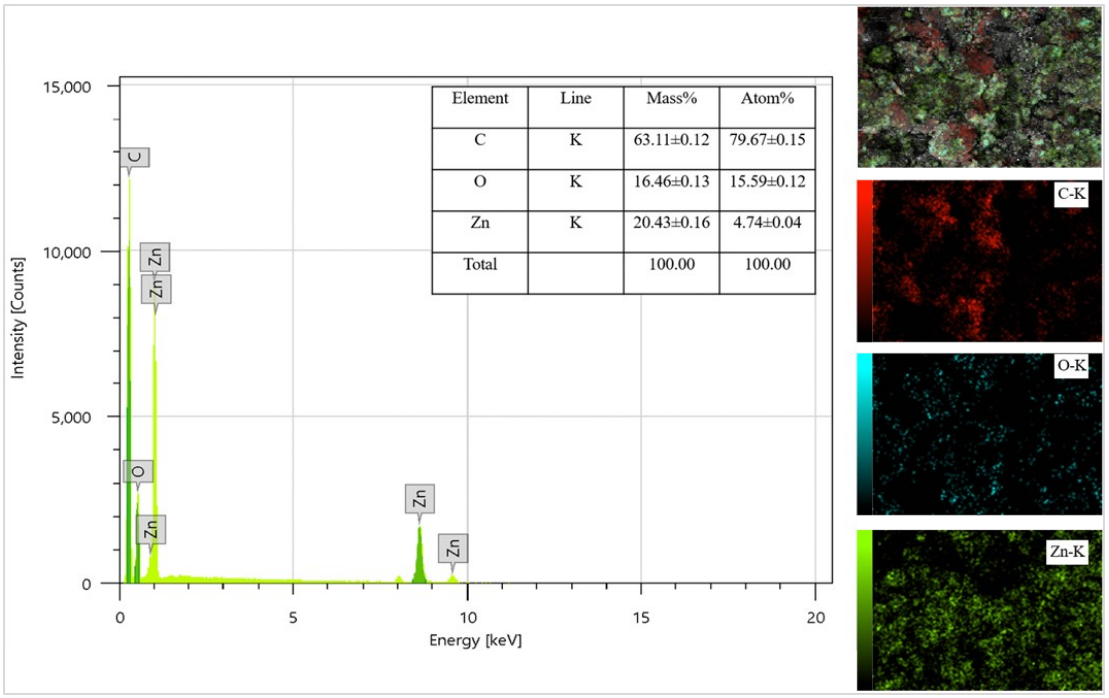

Figure S2. EDX elemental mapping of Gr-ZnO nanorods.

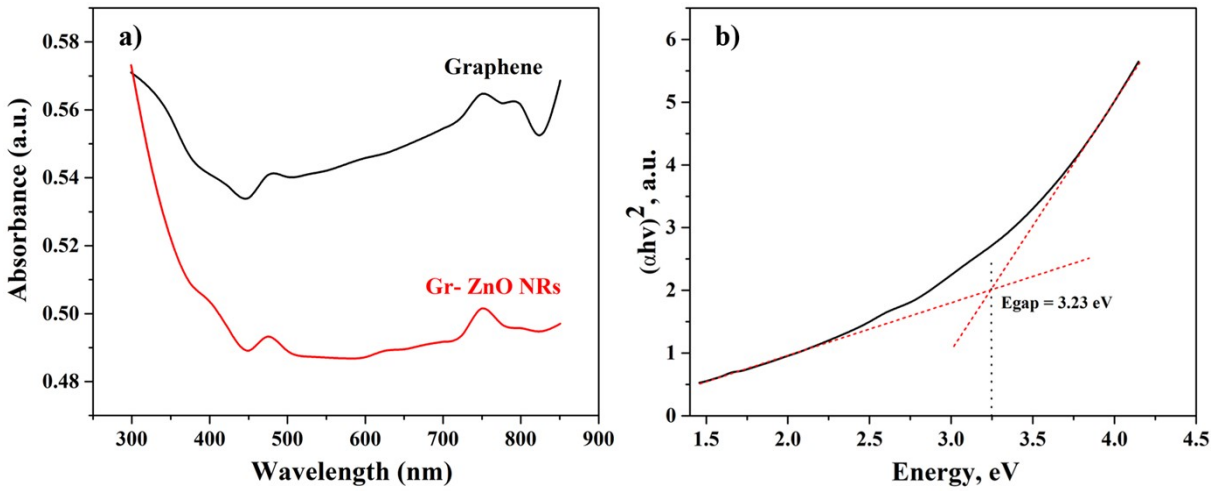

Figure S3. a) Absorbance of Gr and Gr-ZnO nanorods, and b) Tauc plot of Gr-ZnO nanorods.

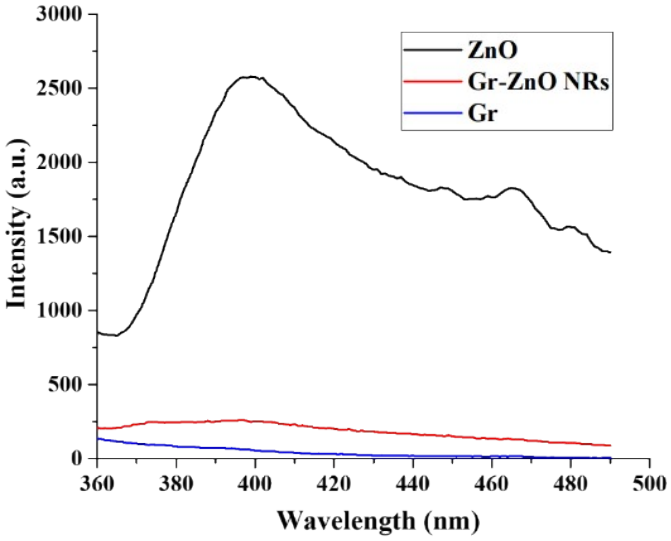

Figure S4. PL analysis of Gr, Gr-ZnO, and bare ZnO nanorods.

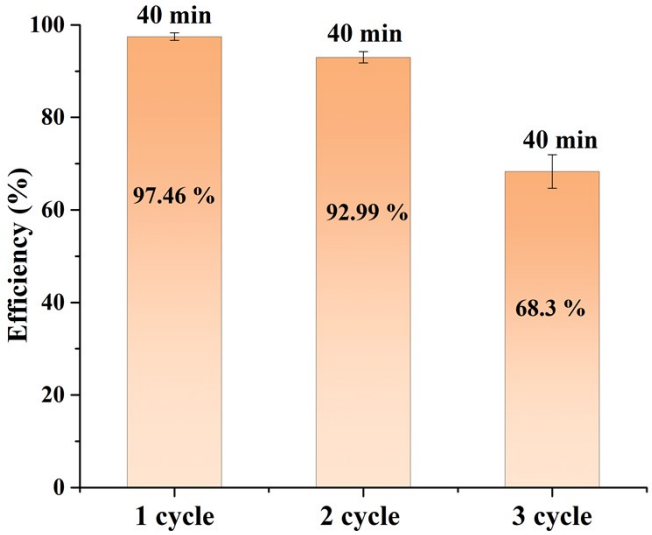

Figure S5. Recyclability analysis of Gr-ZnO nanorods.

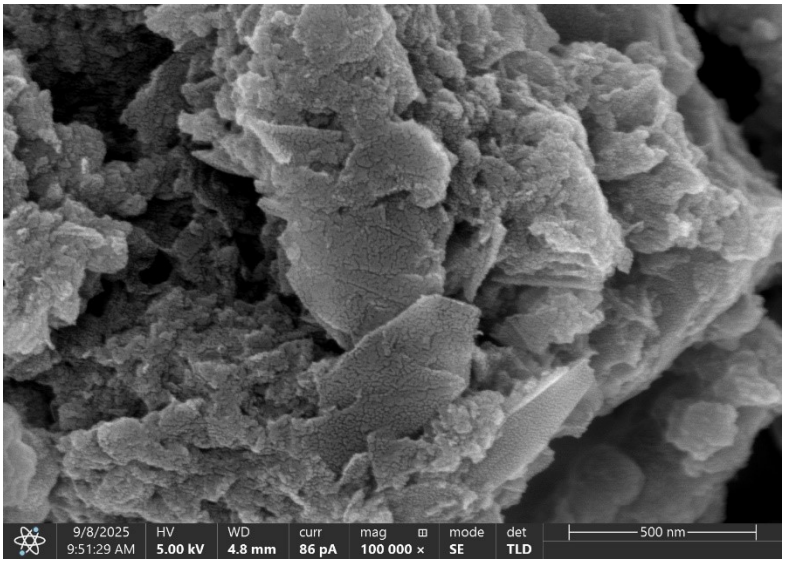

Figure S6. SEM image of Gr-ZnO nanorods after 3rd cycle.

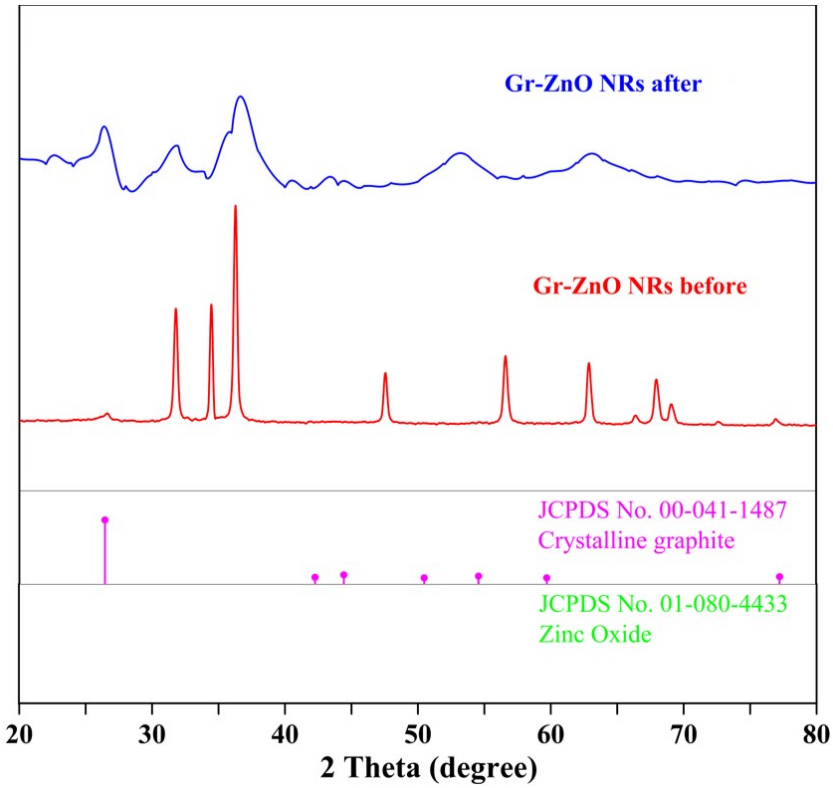

Figure S7. XRD pattern of Gr-ZnO nanorods after 3rd cycle.

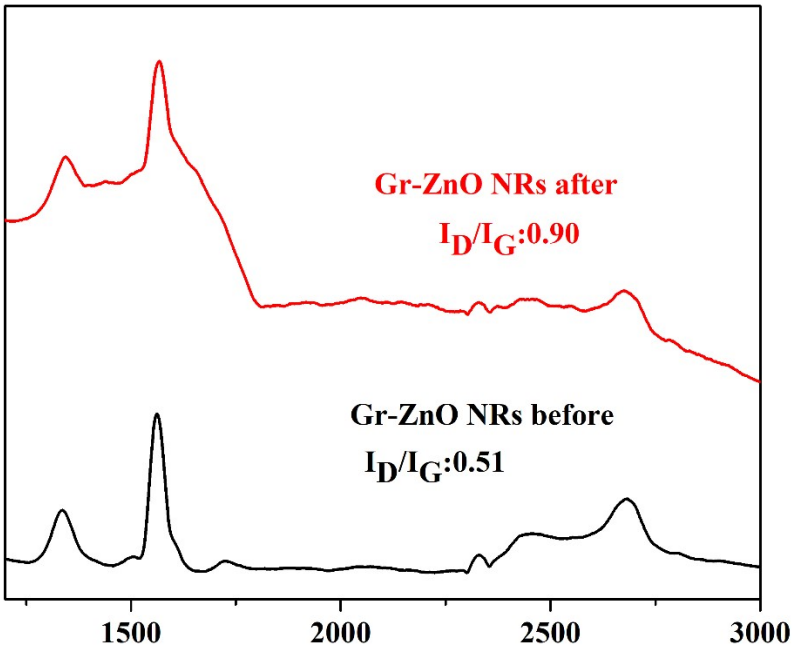

Figure S8. Raman analysis of Gr-ZnO nanorods after 3rd cycle.