Facile Fabrication of ZnO/Eu$_2$O$_3$/NiO Based Ternary Heterostructure Nano-photocatalyst and its Application for the Degradation of Methylene Blue

J. Pranesh Shubha†,*, Syed F. Adil‡,*, Mujeeb Khan‡, Mohammad R. Hatshan‡ and Aslam Khan※

†Department of Chemistry, Don Bosco Institute of Technology, Mysore Road, Bangalore -560 074, India.
‡Department of Chemistry, College of Science, King Saud University, P.O. Box 2455, Riyadh 11451, Saudi Arabia.
※King Abdullah Institute for Nanotechnology, King Saud University, Riyadh, 11451, Kingdom of Saudi Arabia.

Figure S1. ED spectrum of ZnO/Eu$_2$O$_3$/NiO with elements and their composition (inset Table).
Figure S2. FTIR spectrum of ZnO

Figure S3. Graphical illustration of the degradation of MB using ZnO, Eu₂O₃, NiO