

Supporting Information

Magnetically Separable $\text{Ag}_3\text{PO}_4/\text{NiFe}_2\text{O}_4$ composites with Enhanced Photocatalytic Activity

Santosh S. Patil^{a,b} Mohaseen S. Tamboli,^a Virendrakumar G. Deonikar,^a Govind G. Umarji,^a Jalindar D. Ambekar,^a Milind V. Kulkarni,^a Sanjay S. Kolekar,^{ b} Bharat B. Kale^{*a} and Deepak R. Patil^{*a}*

^aCentre for Materials for Electronics Technology (C-MET), Pune, Department of Electronics and Information Technology (DeitY), Govt. of India

Corresponding author. E-mail address: deepphy24@gmail.com (Dr. Deepak Patil), bbkale1@gmail.com (Dr. B. B. Kale), Tel.: +91(020) 25898724; Fax: +91(020)25898085.

^bAnalytical Chemistry and Material Science Research Laboratory, Department of Chemistry, Shivaji University, Kolhapur, India

sskolekar@gmail.com (Dr. S. S. Kolekar)

Figure S1: XRD pattern of APO, NFO and APO/NFO heterojunction photocatalyst

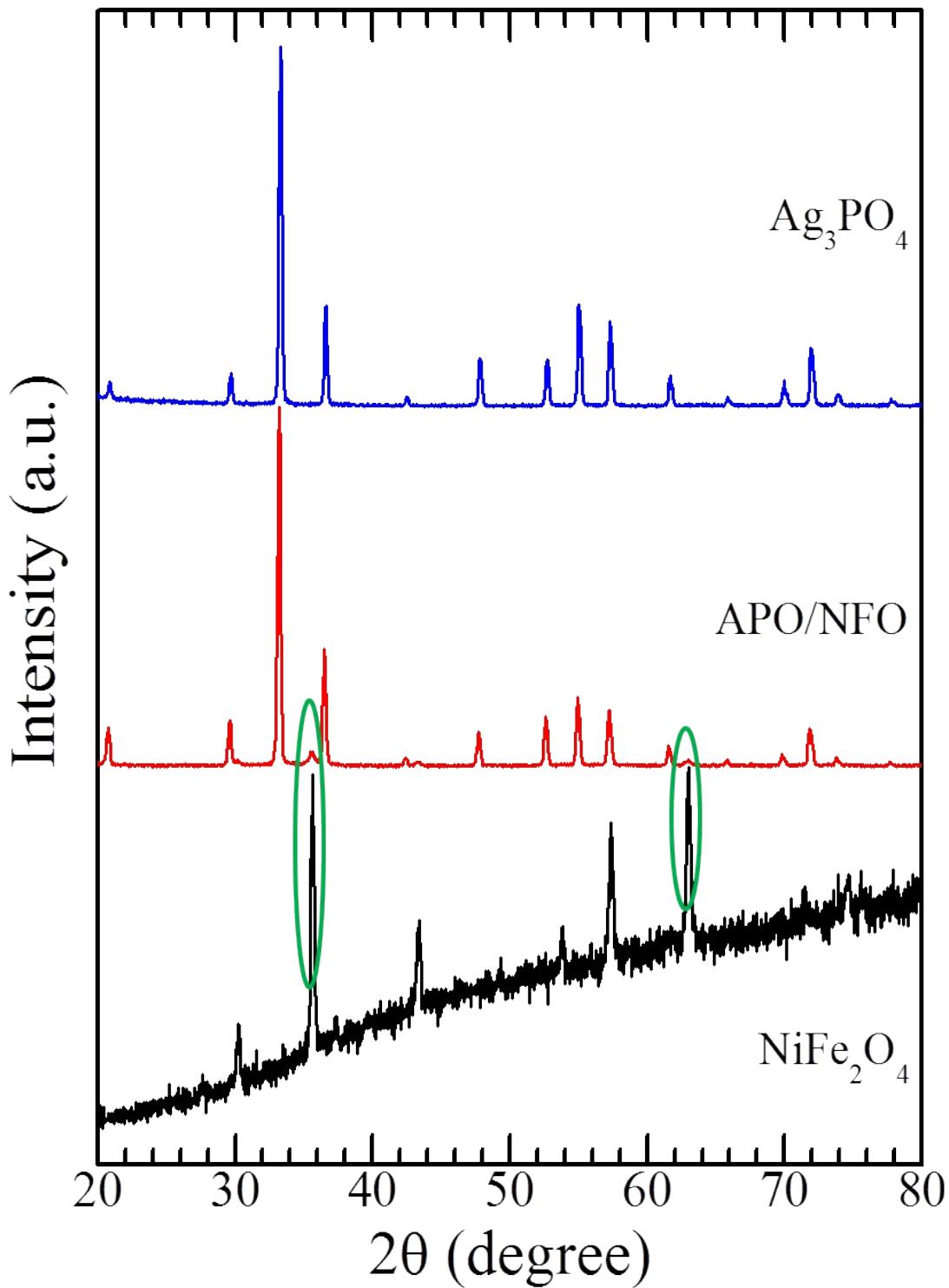


Figure S2: FESEM images of APO

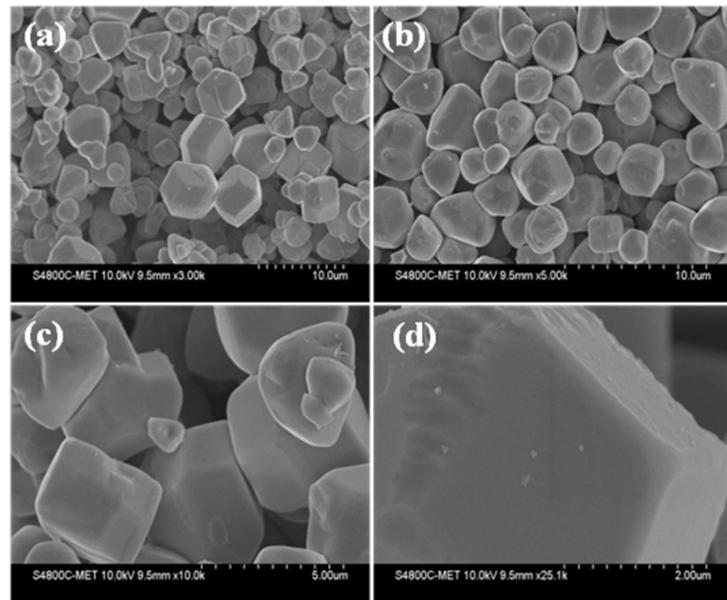


Figure S3: FESEM images of APO/NFO composite with low magnifications

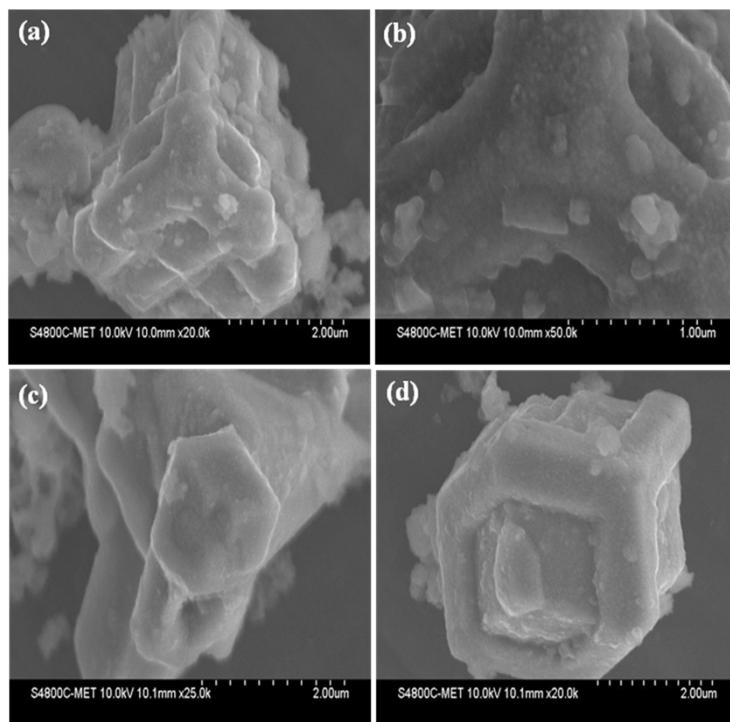


Figure S4: FESEM images of APO/NFO with high magnifications

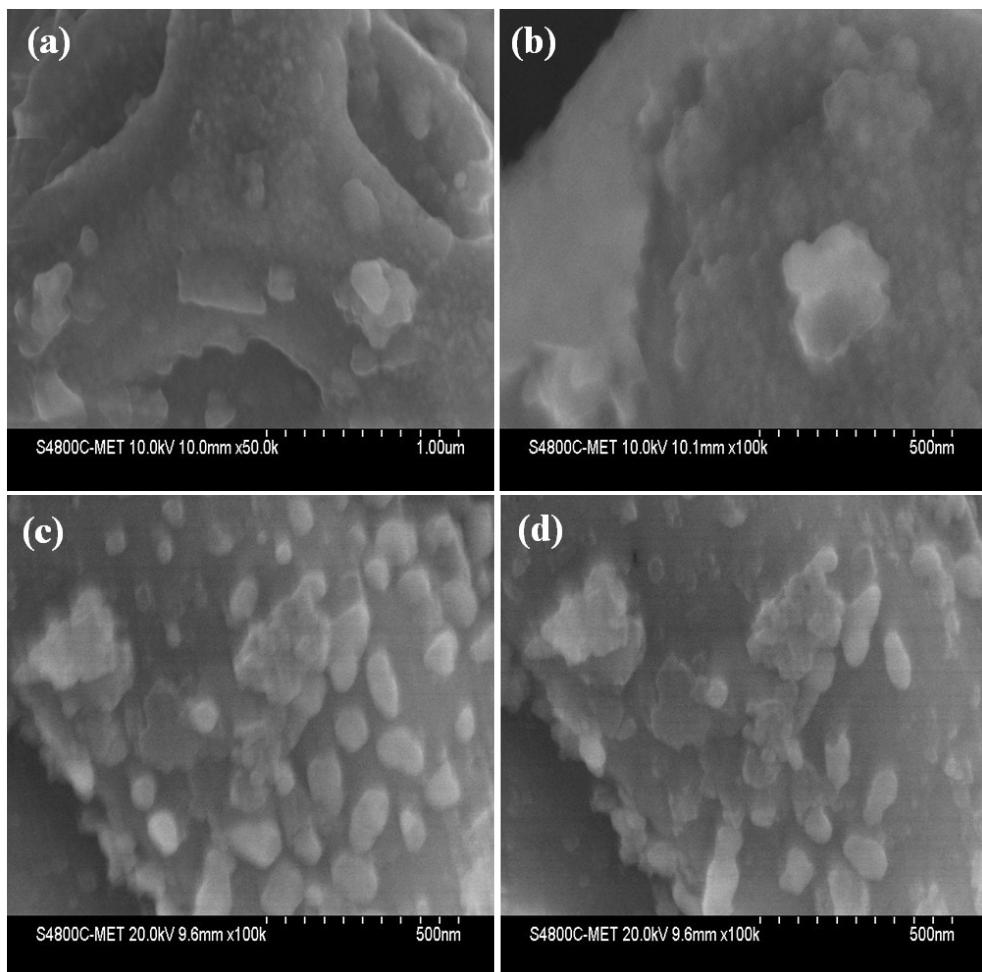


Figure S5: Photocatalytic activity for MB degradation using APO/NFO5 photocatalyst

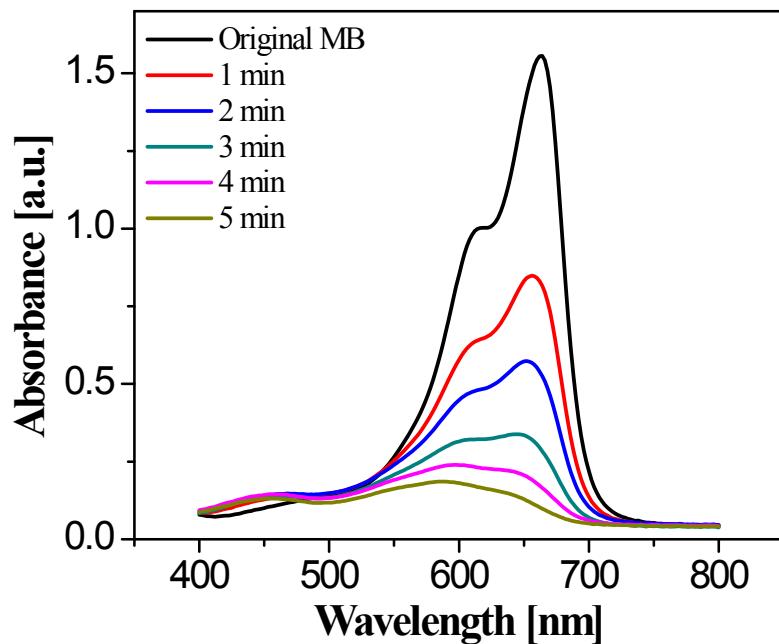


Fig.S5 UV-Visible spectra of the MB solution before and after exposure to visible light irradiation using APO/NFO5 photocatalyst

Table S1: Recyclability photocatalytic activity study of APO/NFO5

Catalyst	Experiment	MB degraded (%)
APO/NFO	First run	98
	Second run	96
	Third run	95