

Supporting Information

Activated graphite carbon assisted cadmium doped copper oxide nano catalyst for Accelerated Photocatalysis and desirable antibacterial activity

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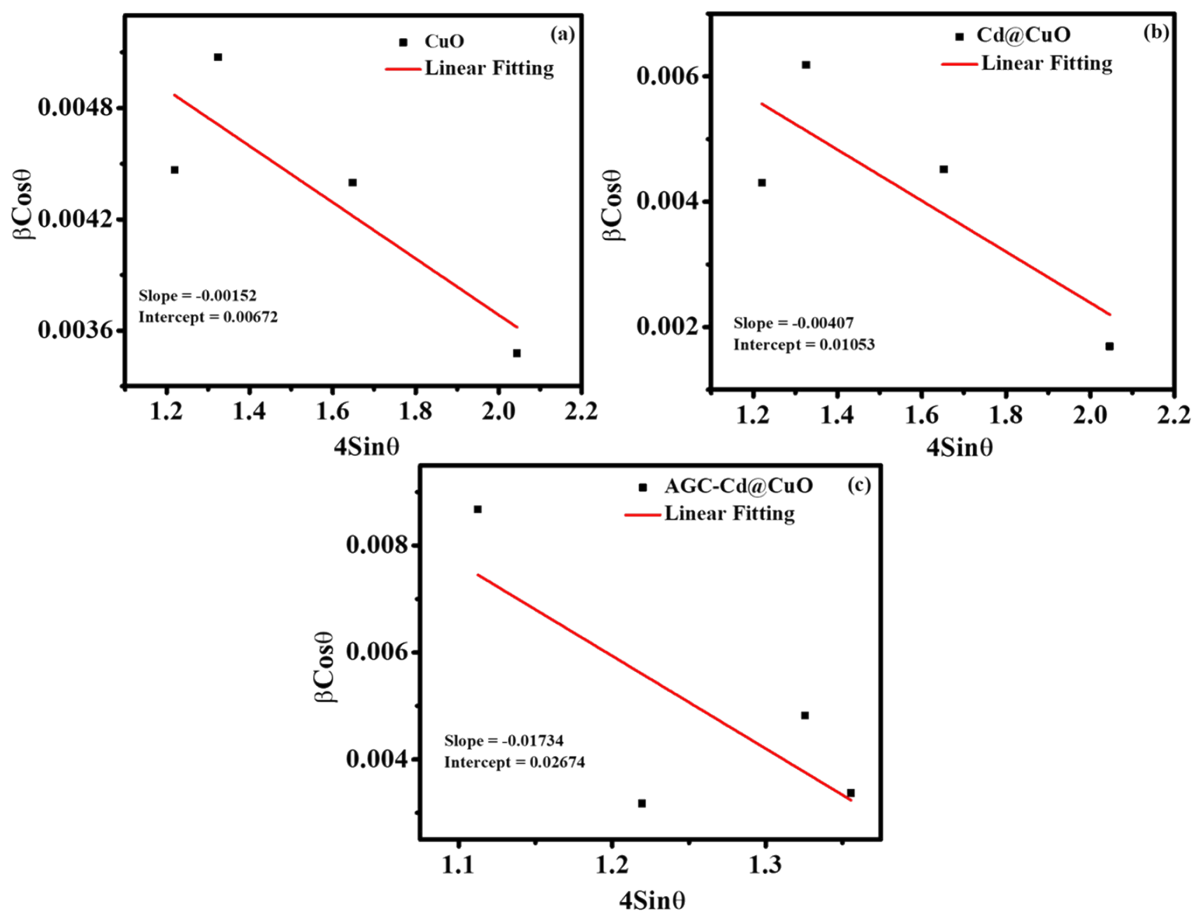


Fig. S1 Williamson-Hall plots for (a) CuO, (b) Cd@CuO and (c) AGC-Cd@CuO

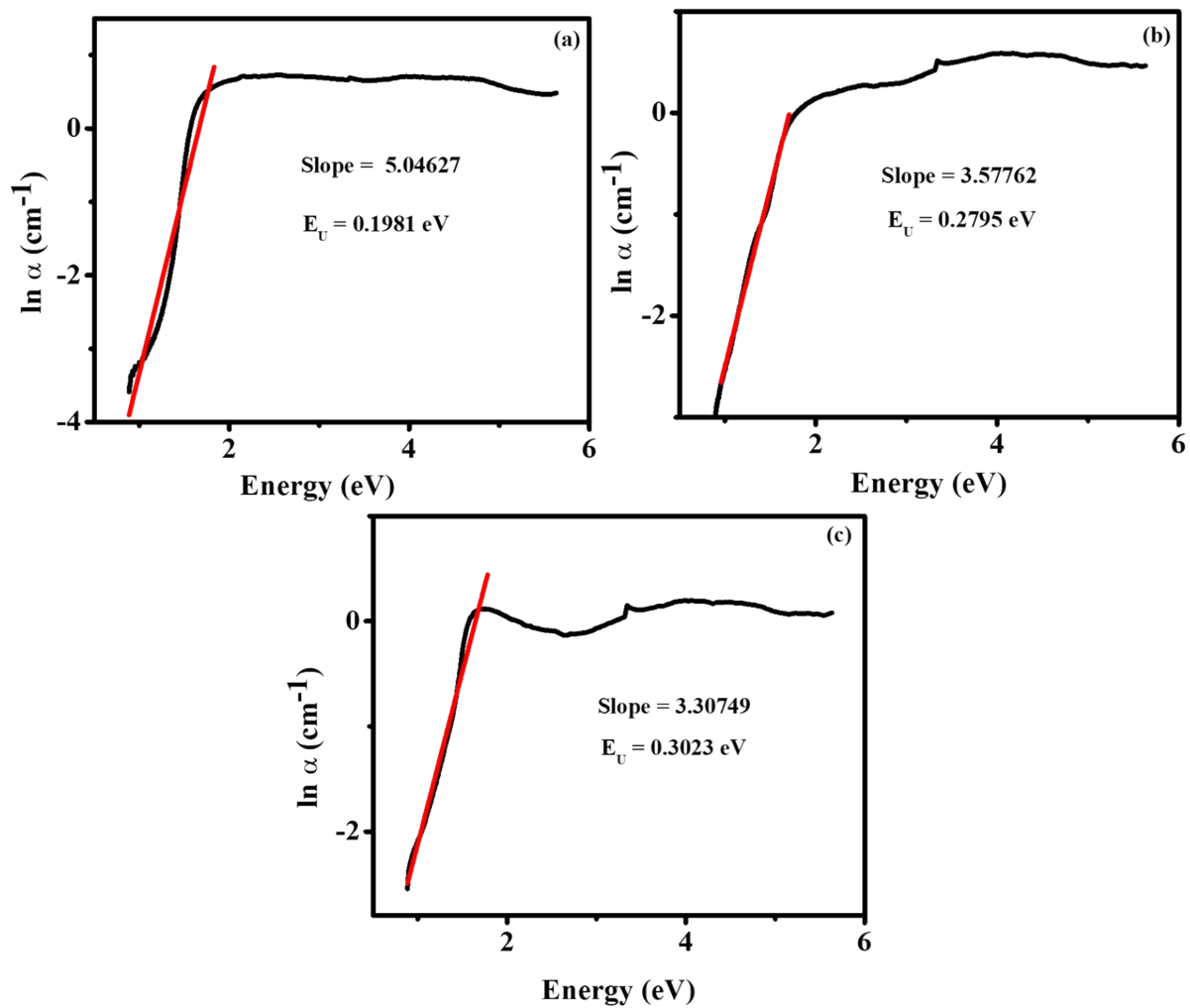


Fig. S2 Urbach band tail width (E_U) of (a) CuO, (b) Cd@CuO and (c) AGC-Cd@CuO

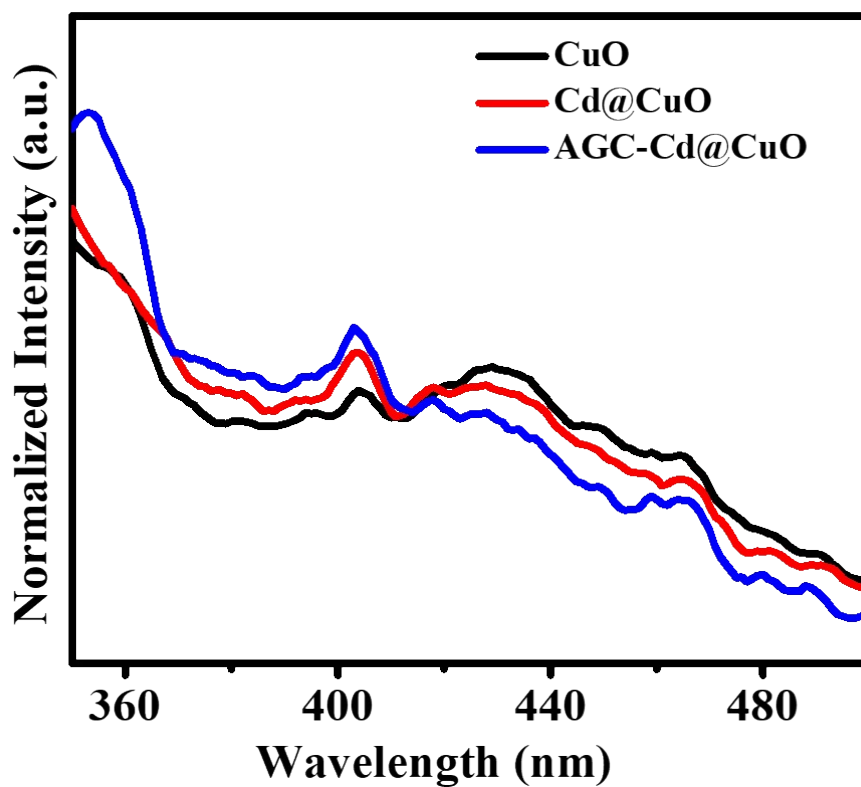


Fig. S3 Area Normalized photoluminescence spectra of CuO, Cd@CuO and AGC-Cd@CuO

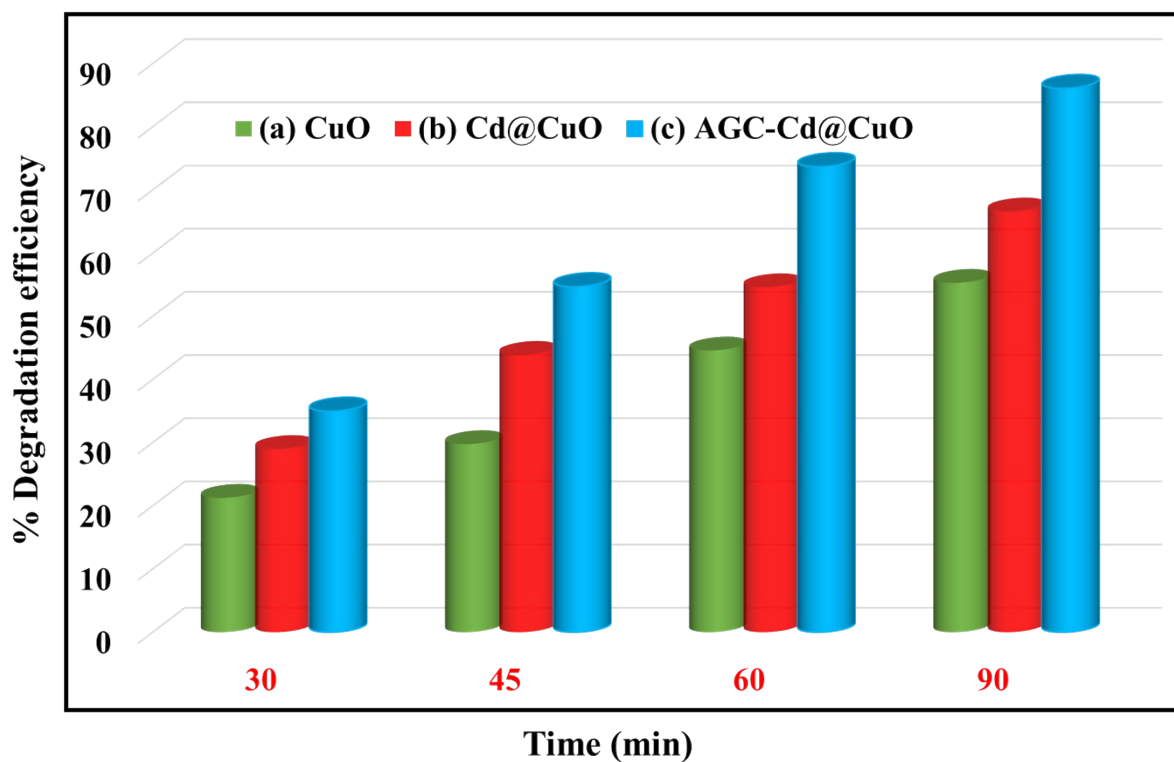


Fig. S4 Degradation efficiency % of CuO, Cd@CuO and AGC-Cd@CuO

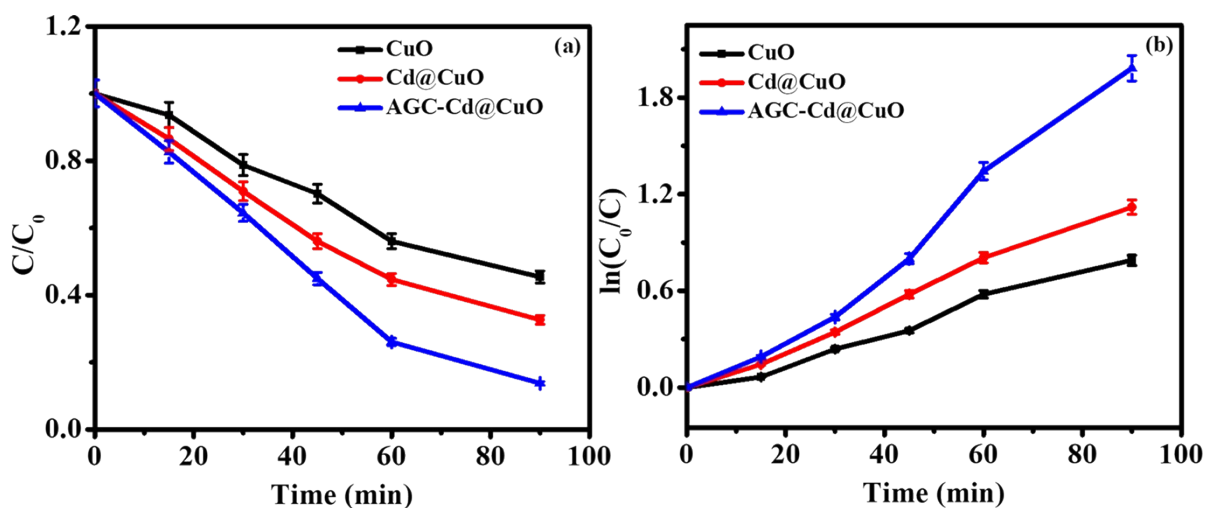


Fig. S5 (a, b) Error bar images for Kinetic graph of CuO, Cd@CuO and AGC-Cd@CuO catalysis

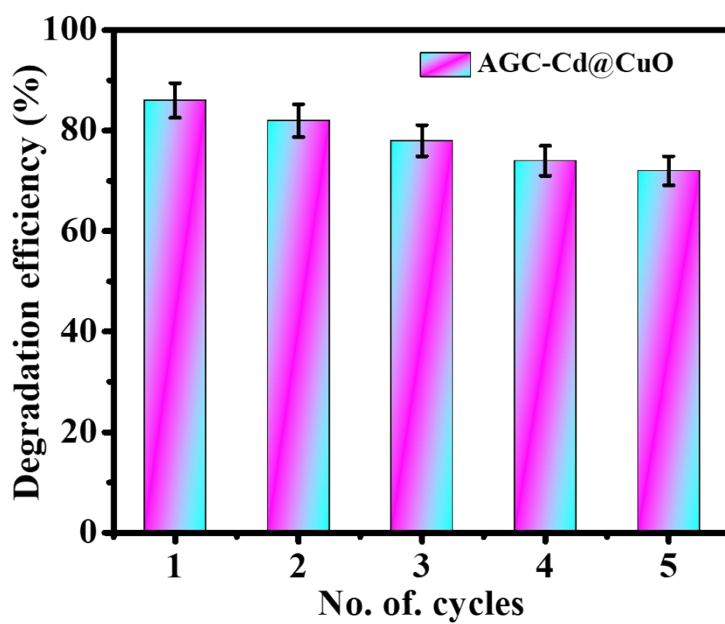


Fig. S6 Error bar images for recycle efficiency of AGC-Cd@CuO photocatalyst under five consecutive runs

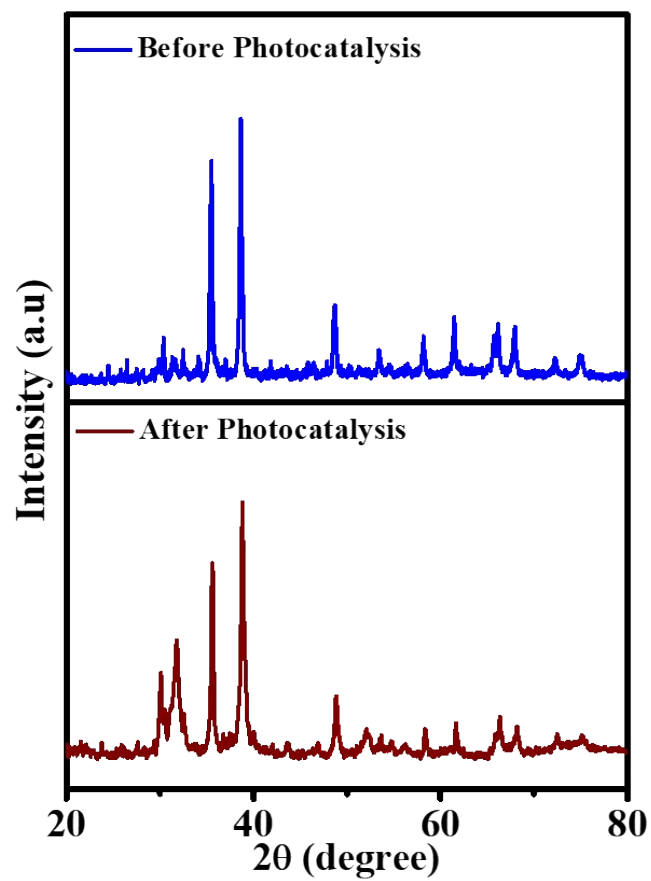


Fig. S7 XRD spectra of AGC-Cd@CuO before and after five consecutive runs of the Photocatalysis process

Table No. S1 Literature review of CV degradation experiments in the presence of various photocatalysts

Photocatalyst	Degradation rate (%)	Time (min)	Reference
AGC-Cd@CuO	86.1	90	This Work
In(1%)-ZnO	85	210	[1]
Ag ⁺ /TiO ₂	56	105	[2]
1.5mol%Cd-ZnO	71.01	90	[3]
Fe ₃ O ₄ /SnO ₂ (FS2-4:1)	78	180	[4]
ZnO	82	240	[5]
MnFe ₂ O ₄	25.13	120	[6]
3DMnO ₂ nanofibernet	84	280	[7]
Gd(5):BFO	72	180	[8]
Ce ₂ (MoO ₄) ₃ -CTAB	89	300	[9]
PureFe ₃ O ₄	76	180	[4]

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