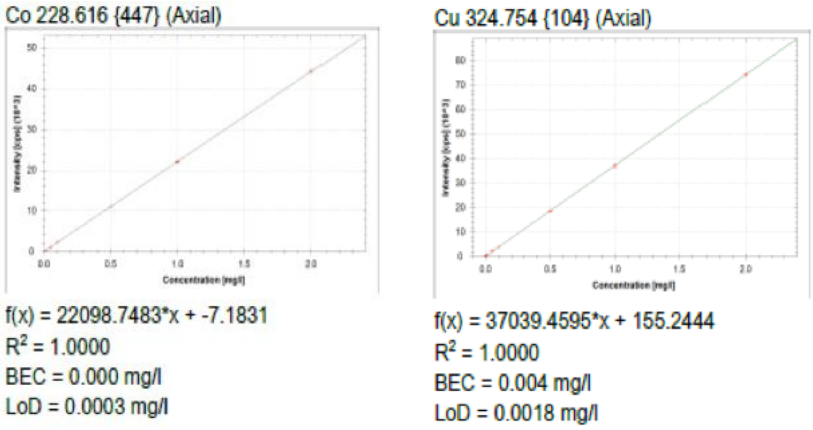
Supporting Information

Comparative Study of ZnO thin films doping process using transition metals (Cu and Mn) for Methylene Blue photodegradation under visible irradiation

Content Page



(a) (b)

Figure S1. ICP Calibration curve for: (a) Co and (b) content. (Equipment: ICP -OES ICAP SERIE 7200 THERMOSCIENTIFIC – Method SM 3120 B, EPA 3015A adapted for solids).

Table S1. Results ICP for Co and Cu content in Metal-doped ZnO thin films.

Thin films	FD	ICP CPS average signal	mg Zn	ICP CPS average	mg metal	% metal	bias
ZnO:Co(1%)	50	1548451	4262	17282	39.12	0.92	-0.08
ZnO:Co(3%)	200	1035796	5700	18686	169.18	2.97	-0.03
ZnO:Co(5%)	500	459593	6319	13331	301.79	4.78	-0.22
ZnO:Cu(1%)	100	1541318	4242	16613	41.43	1.05	0.05
ZnO:Cu(3%)	200	1028064	5658	30255	162.53	2.87	-0.13
ZnO:Cu(5%)	500	436557	6002	23120	310	5.16	0.16

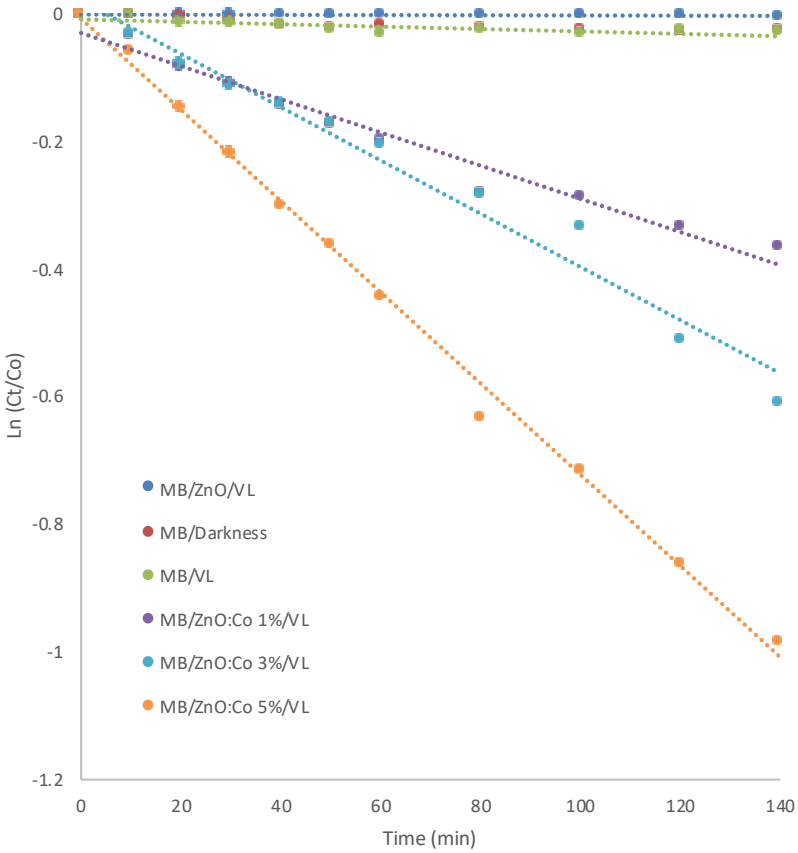


Figure S2. Fitting curves of kinetic model for ZnO:Co

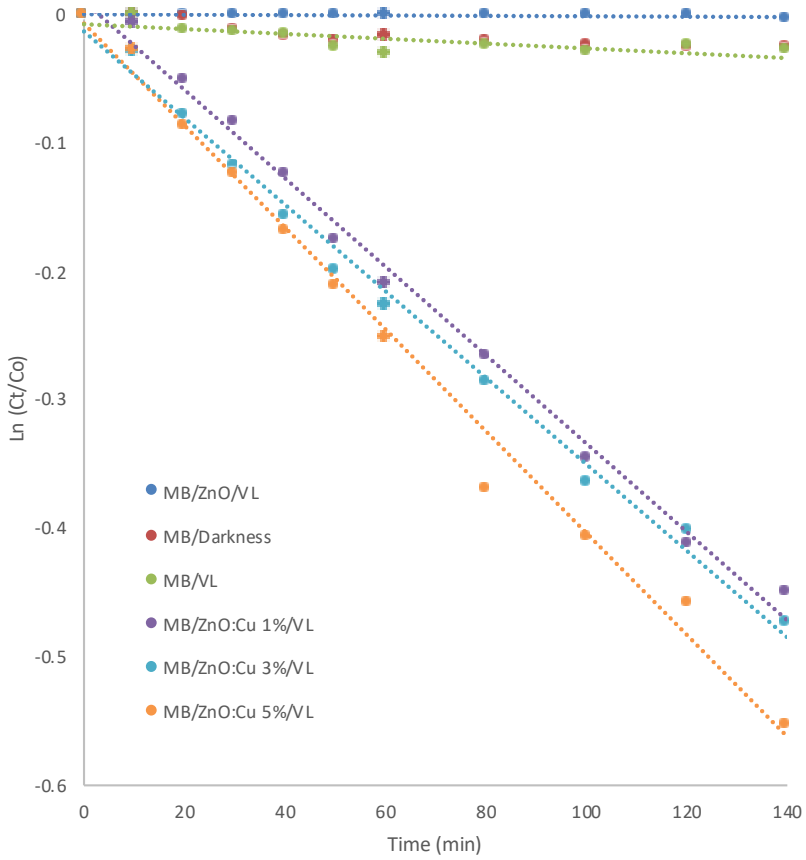


Figure S3. Fitting curves of kinetic model for ZnO:Cu