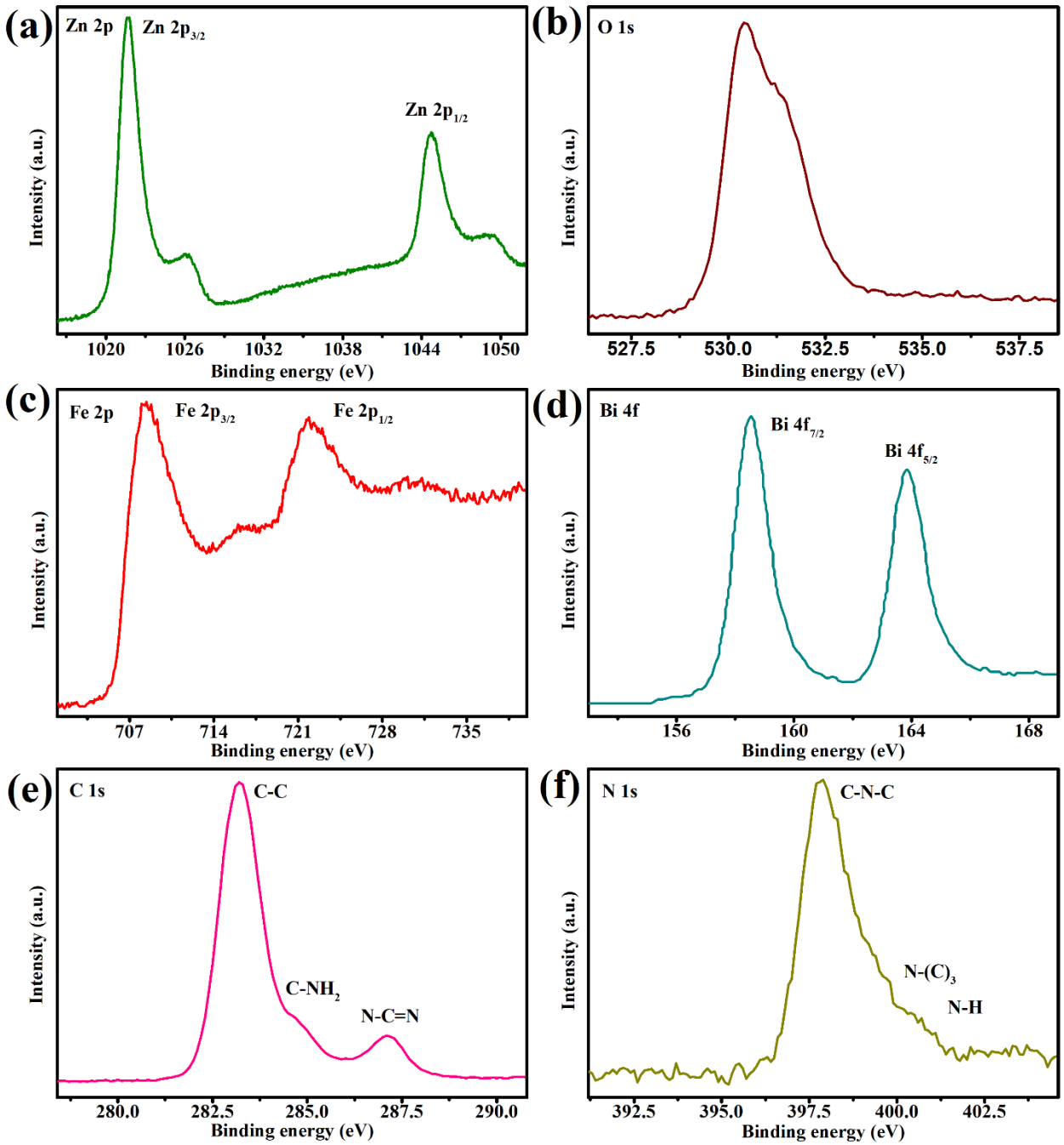

Figure S1. High-resolution XPS spectra of BZFG NCs; (a) Zn 2p, (b) O 1s, (c) Fe 2p, (d) Bi 4f, (e) C 1s and (f) N 1s.

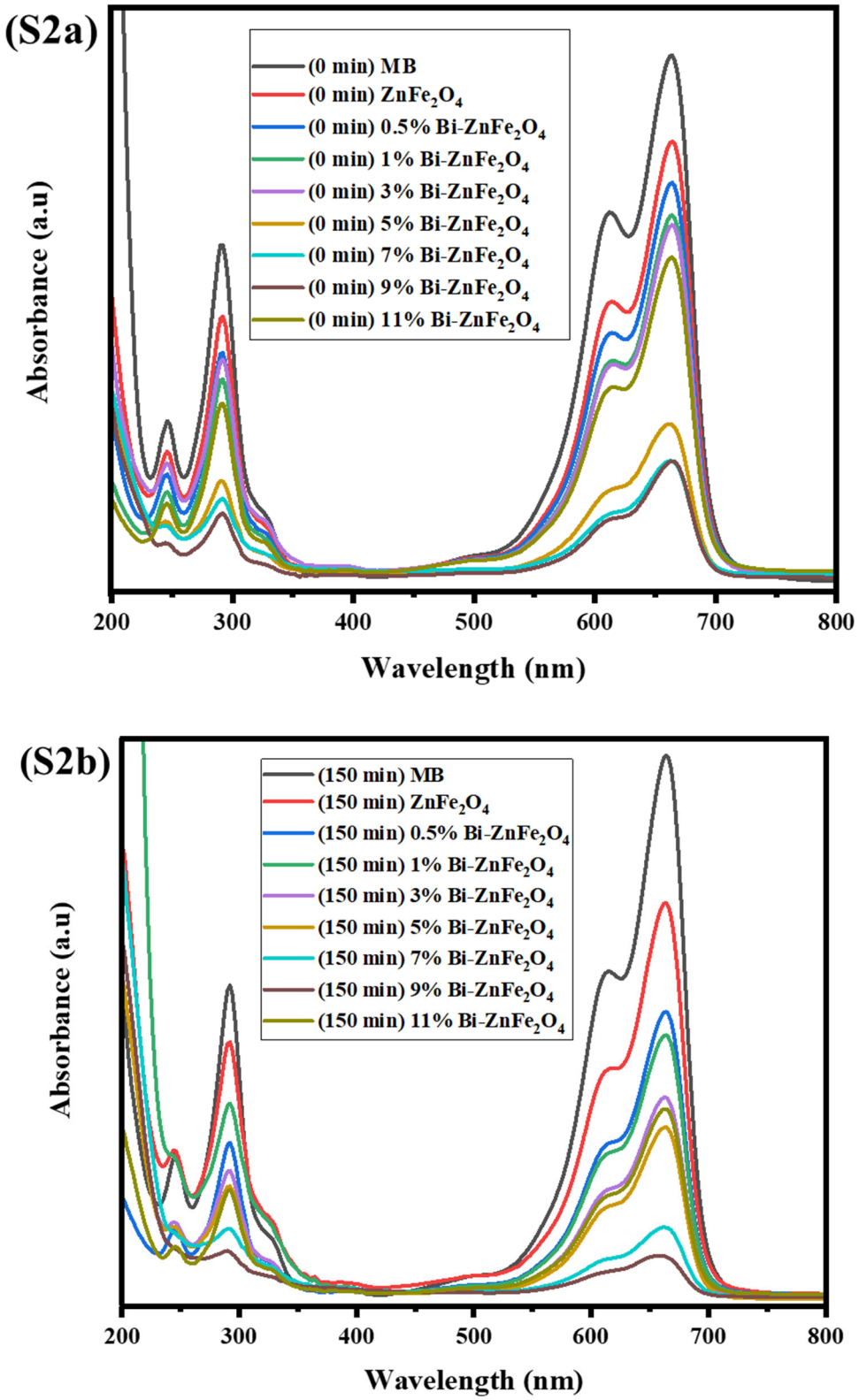

Figure S2. Photodegradation of MB by Bi-$ZnFe_2O_4$ NPs at 0 minutes (a) and after 150 minutes (b) of sunlight irradiation (Degradation contours).

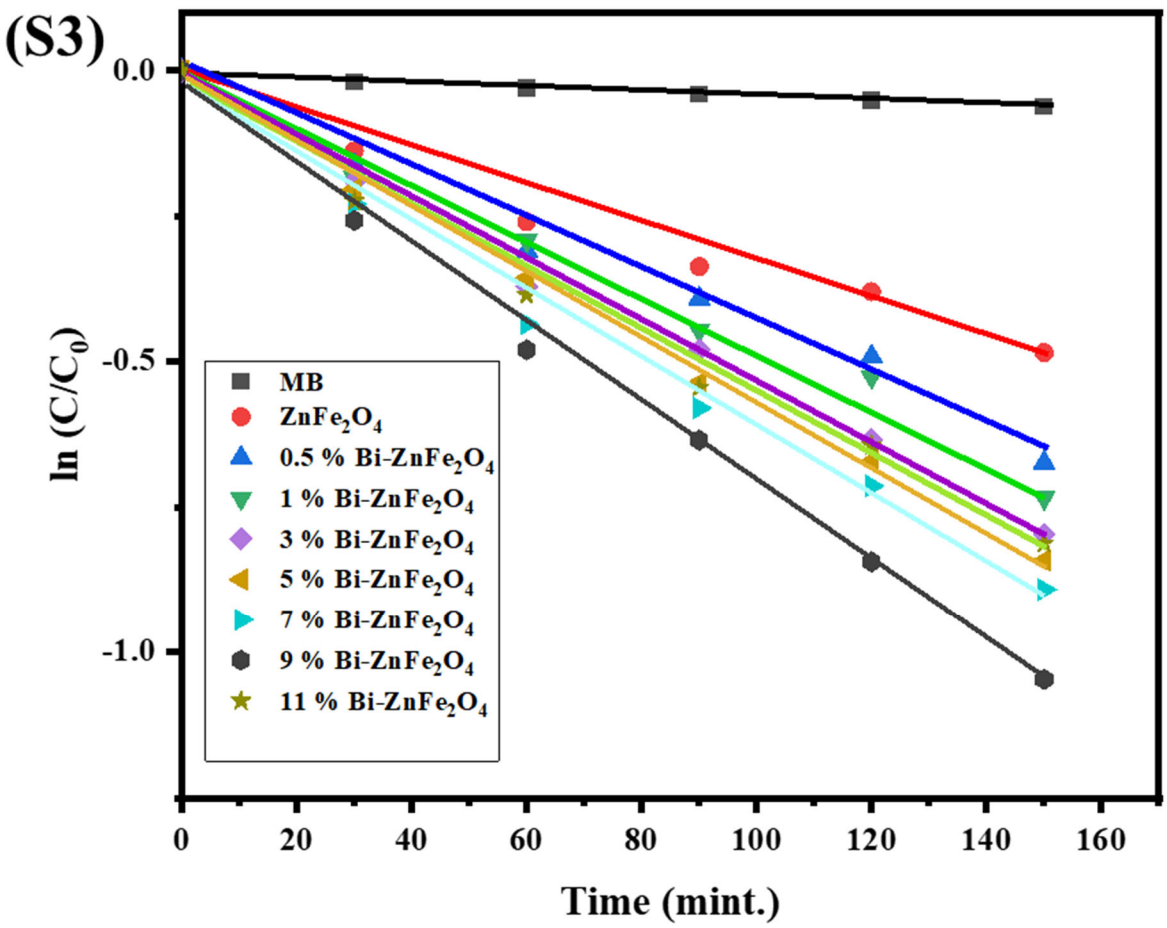

Figure S3. First-order kinetics plot of S-g-C_3N_4, Bi-$ZnFe_2O_4$ Ns, Bi-$ZnFe_2O_4$/S-g-C_3N_4 NCs.

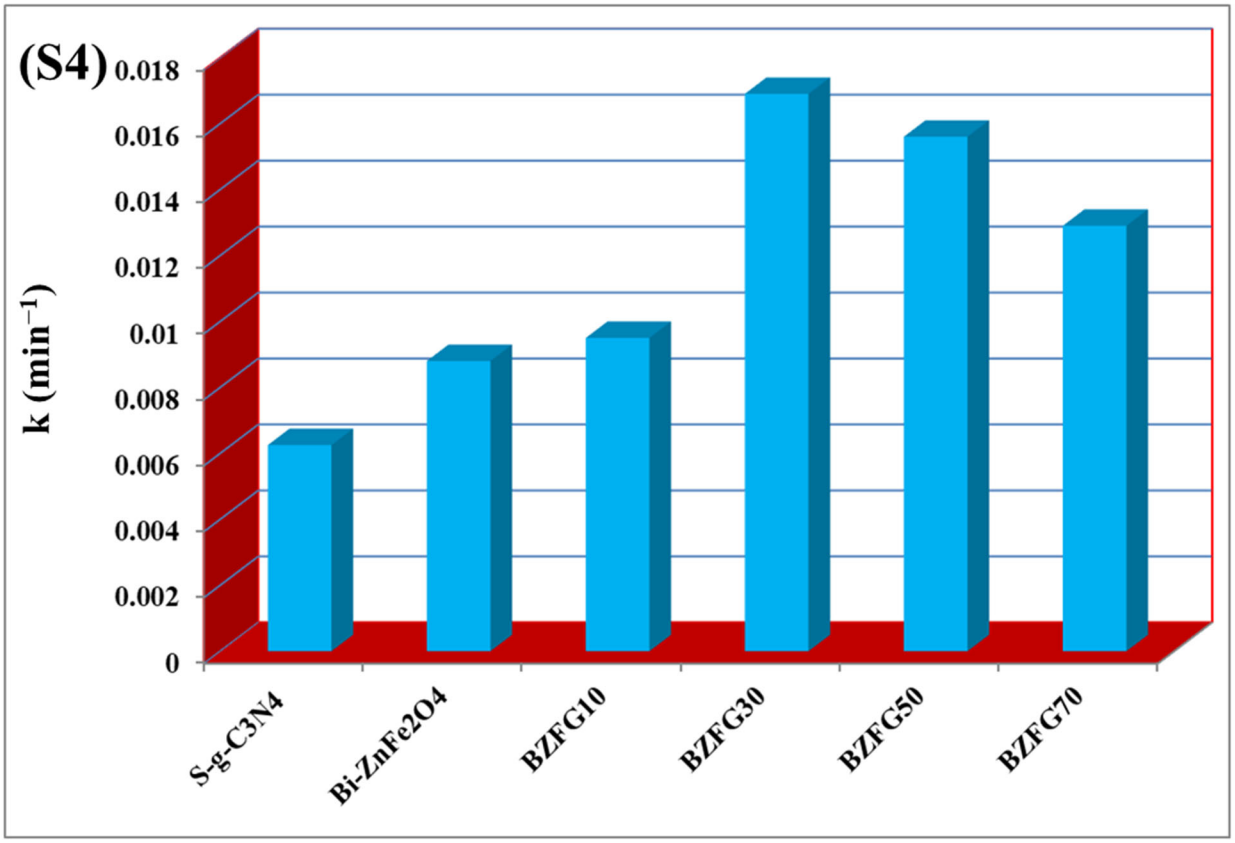

Figure S4. Photodegradation rate constant k (min^{-1}) of Methylene Blue by S-g-C_3N_4, Bi-$ZnFe_2O_4$ NPs, Bi-$ZnFe_2O_4$/S-g-C_3N_4 NCs.