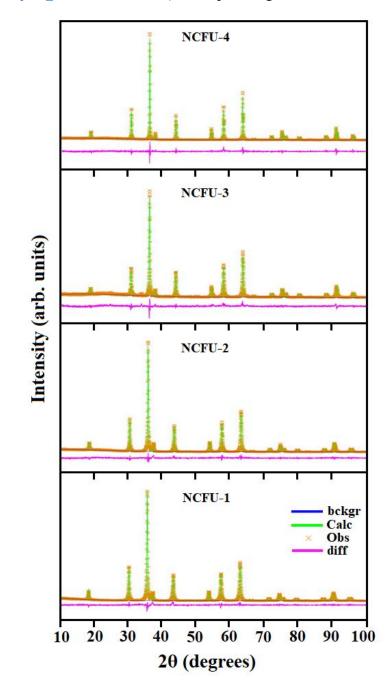
## Role of different fuels and sintering temperature on structural, optical, magnetic and photocatalytic properties of chromium containing nickel ferrite: kinetic study of photocatalytic degradation of rhodamine B dye

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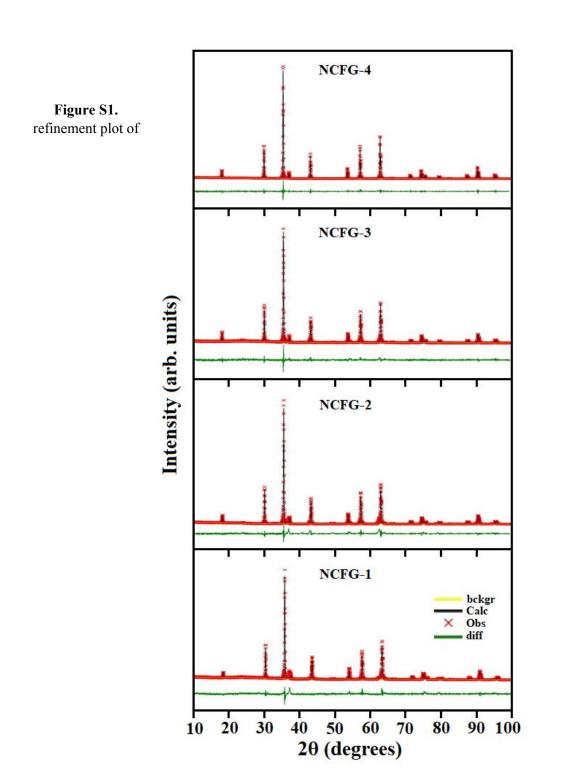




Figure S2. Rietveld refinement plot of NCFG's

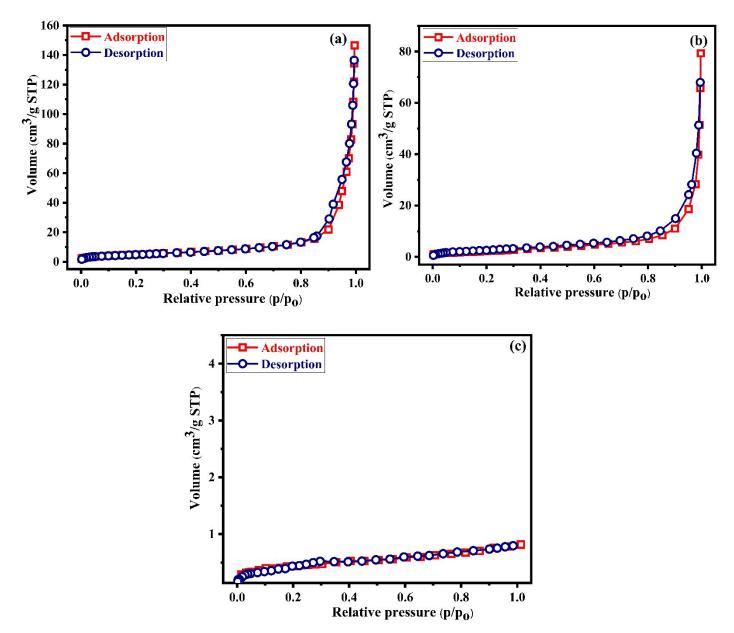


Figure S3. N<sub>2</sub> Adsorption-Desorption isotherm for (a) NCFP-2, (b) NCFU-2, (c) NCFG-2

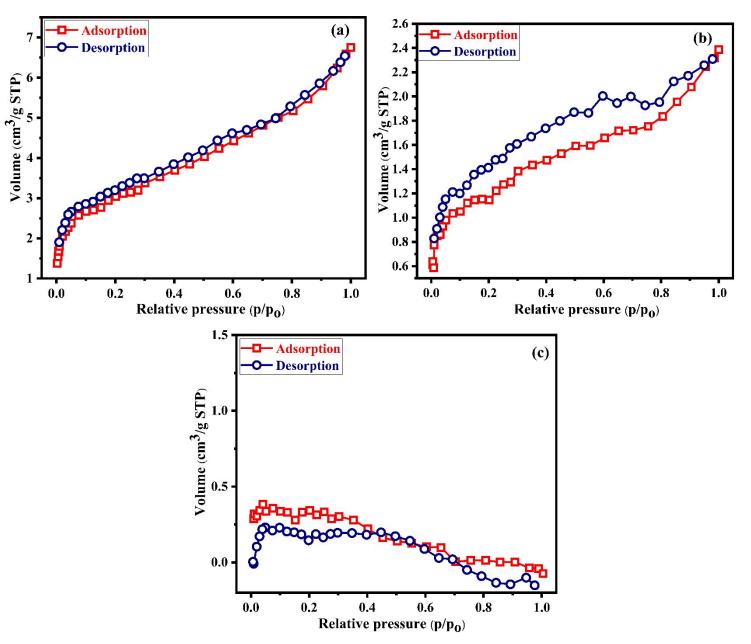


Figure S4. N<sub>2</sub> Adsorption-Desorption isotherm for (a) NCFP-3, (b) NCFU-3, (c) NCFG-3

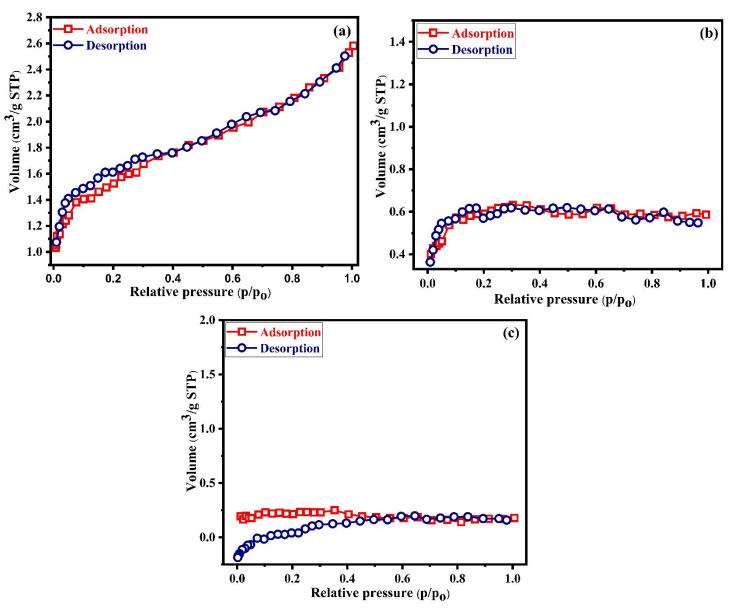


Figure S5. N<sub>2</sub> Adsorption-Desorption isotherm for (a) NCFP-4, (b) NCFU-4, (c) NCFG-4.

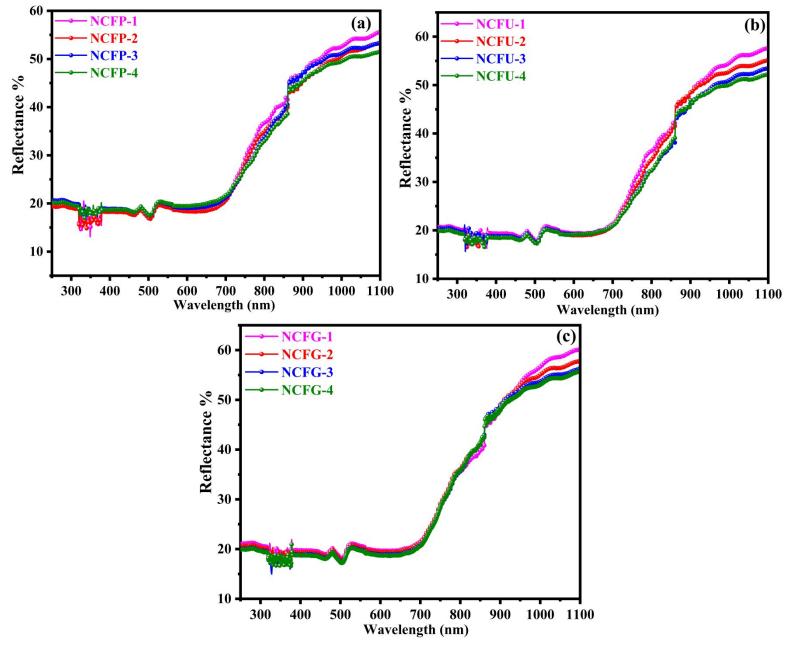


Figure S6. Diffuse reflectance spectra (DRS) spectra of Ni-Cr ferrites nanoparticles (a) NCFP's, (b) NCFU's, and (c) NCFG's

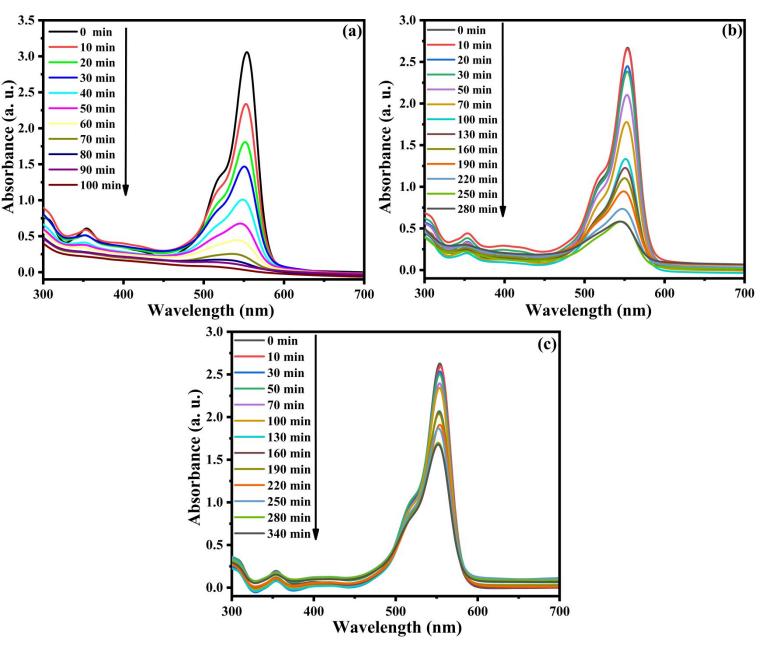


Figure S7. Time dependent UV-Vis spectra of degradation of RhB in the presence of (a) NCFP-2, (b) NCFU-2, (c) NCFG-2 as photocatalyst

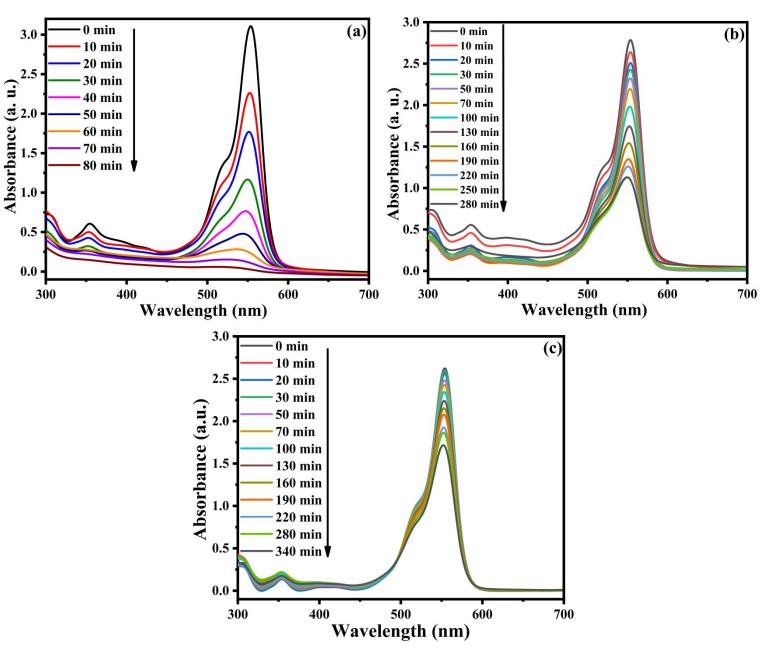


Figure S8. Time dependent UV-Vis spectra of degradation of RhB in the presence of (a) NCFP-3, (b) NCFU-3, (c) NCFG-3 as photocatalyst

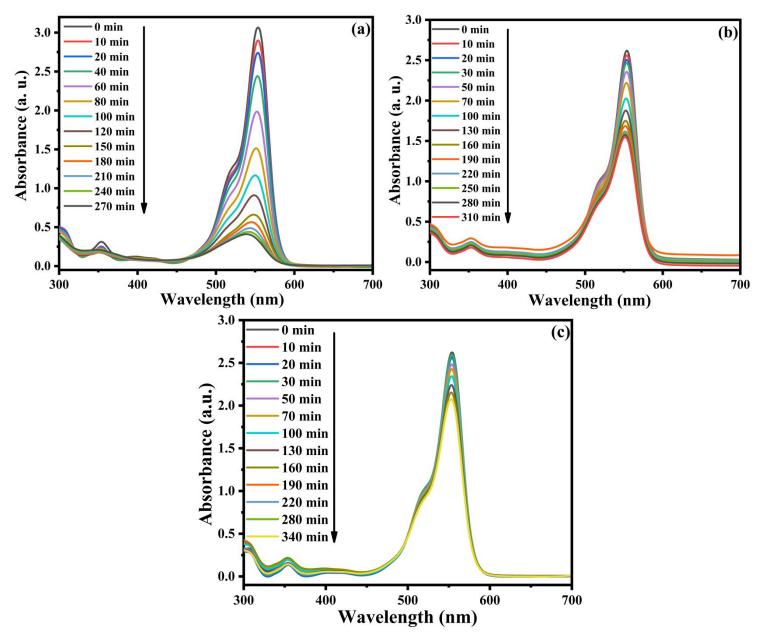


Figure S9. Time dependent UV-Vis spectra of degradation of RhB in the presence of (a) NCFP-4, (b) NCFU-4, (c) NCFG-4 as photocatalyst

	NCFP-1	
Elements	Expt. mass % (before use)	Expt. Mass % (after use)
Ni	24.00	23.76
Fe	24.98	25.78
Cr	25.96	24.45
0	25.07	26.01

 Table S1. EDX analysis of NCFP-1 before and after use.

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