

Morphology Control of Nickel Oxalate by Soft Chemistry and their Conversion to Nickel Oxide for Application in Photocatalysis

***Soumyadipta Rakshit,^a Sayantani Chall,^a Soumya Sundar Mati,^a Anirban
Roychowdhury,^b S.P.Moulik,^a Subhash Chandra Bhattacharya^{*a}***

^aDepartment of Chemistry, Jadavpur University, Kolkata 700032, India.

*e-mail: sbjuchem@yahoo.com, scbhattacharyya@chemistry.jdvu.ac.in

Phone No: 033 2414 6223 / Fax: 91(033) 24146584

^bUGC - DAE Consortium for Scientific Research, Kolkata Centre,
111/LB-8, Bidhanagar, Kolkata 700098, India

Supplymentary Information

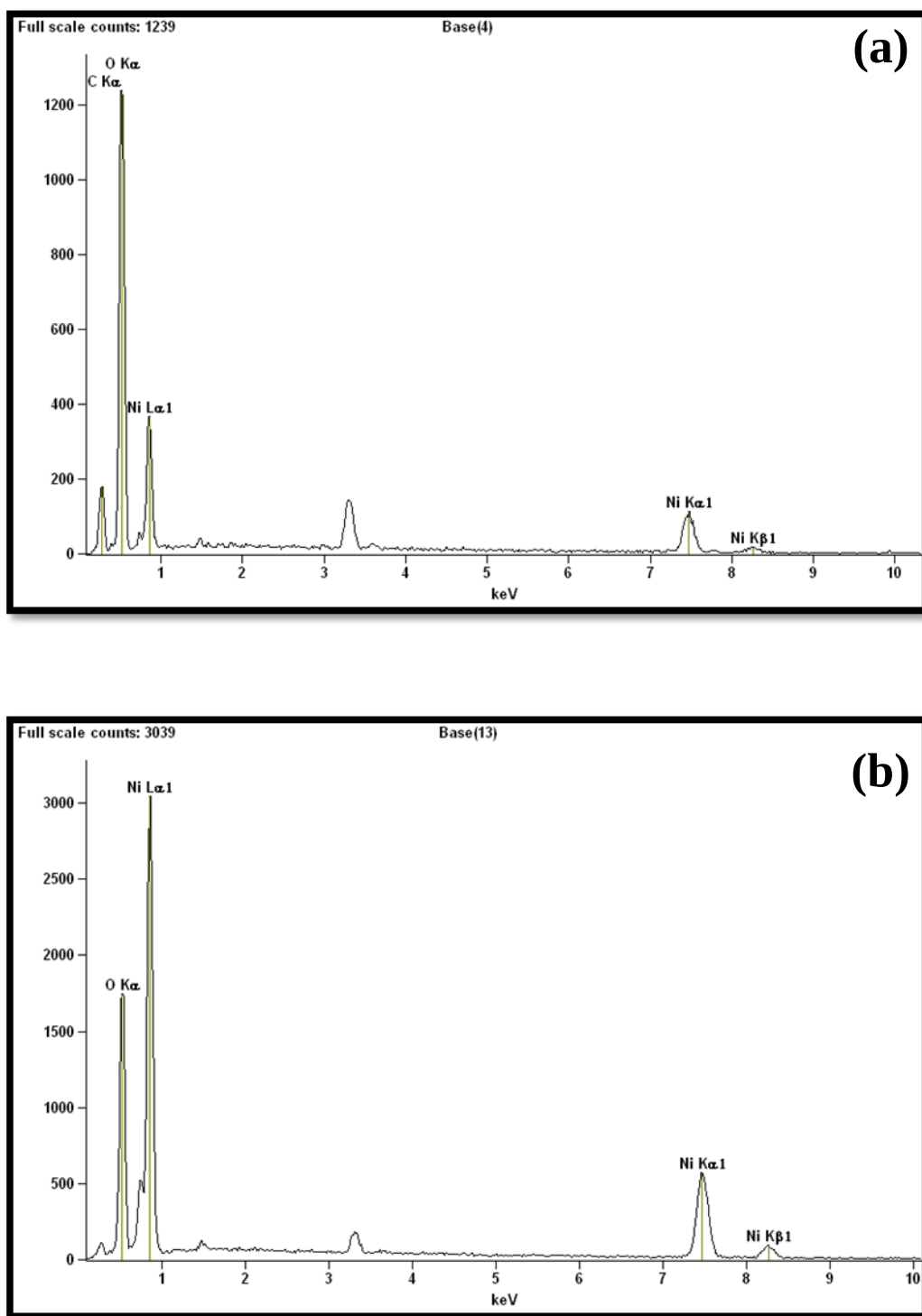


Fig S1: Energy dispersive X-ray spectrum of (a) NiOX I and (b) NiO I synthesized at a SDS/CTAB ratio 65/35.

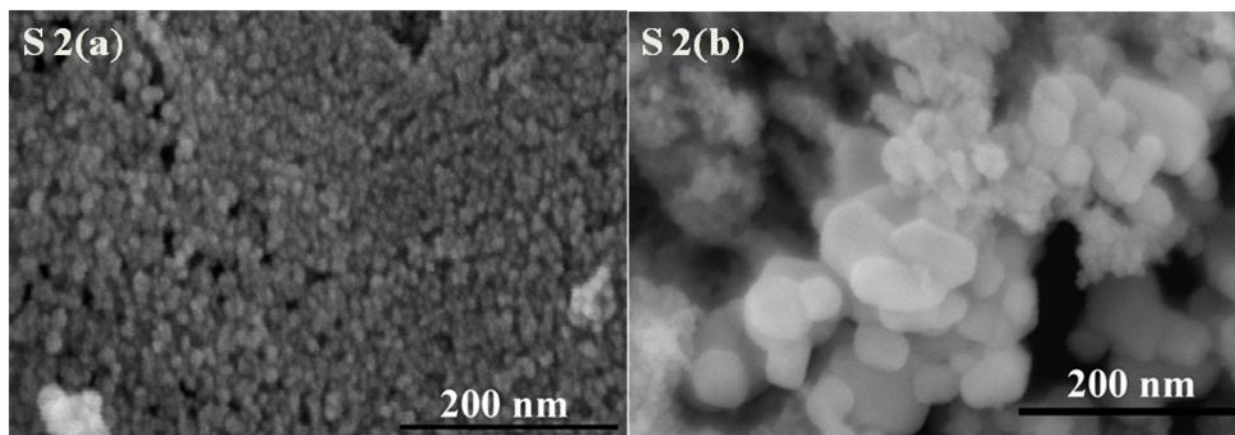


Fig S2: FESEM images of Nickel oxides synthesized at a SDS/CTAB ratio 65/35 representing (a) granular and (b) hexagonal morphology

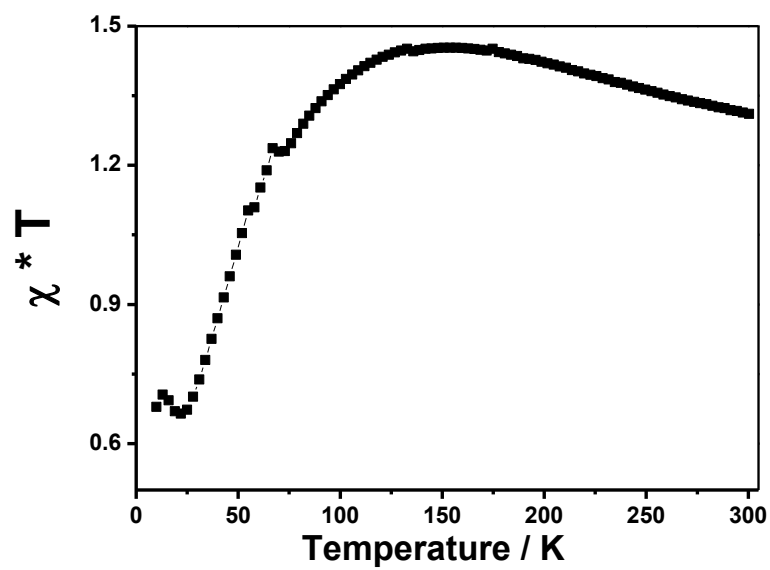
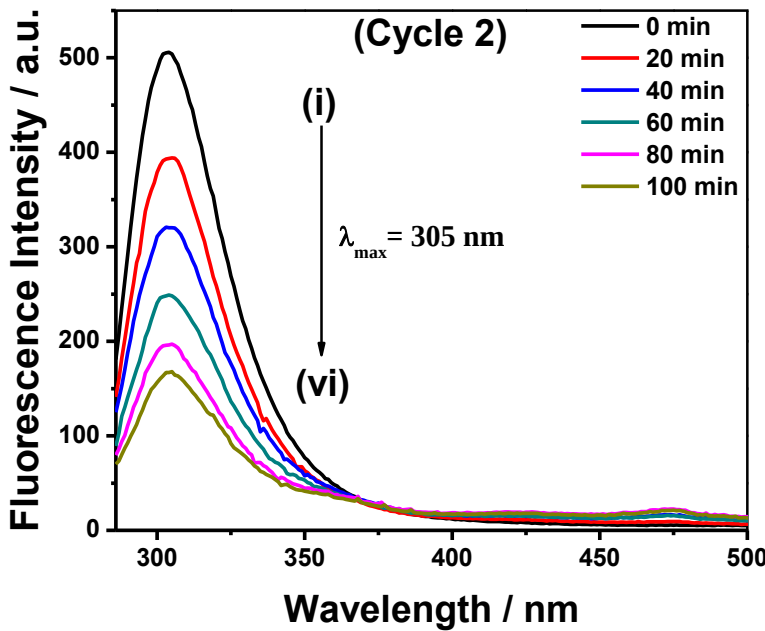
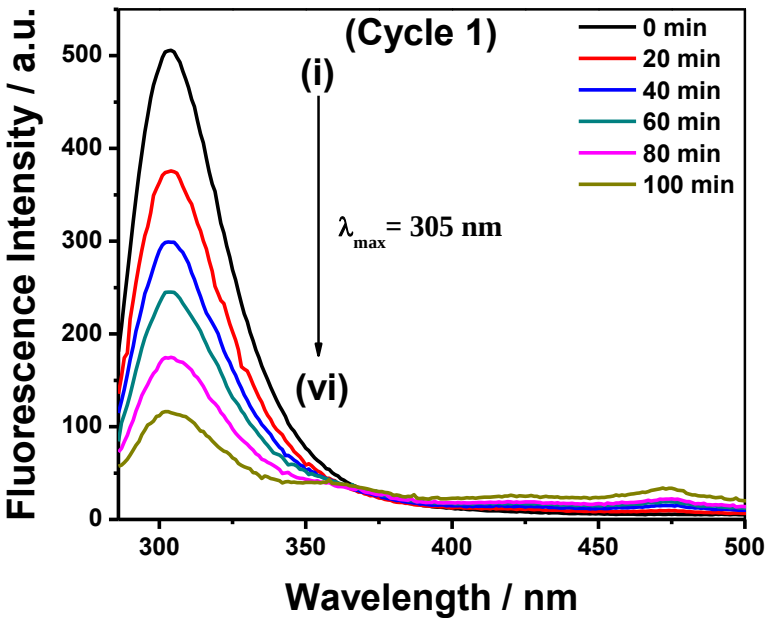


Fig S3: Plot of χT vs T for NiO I



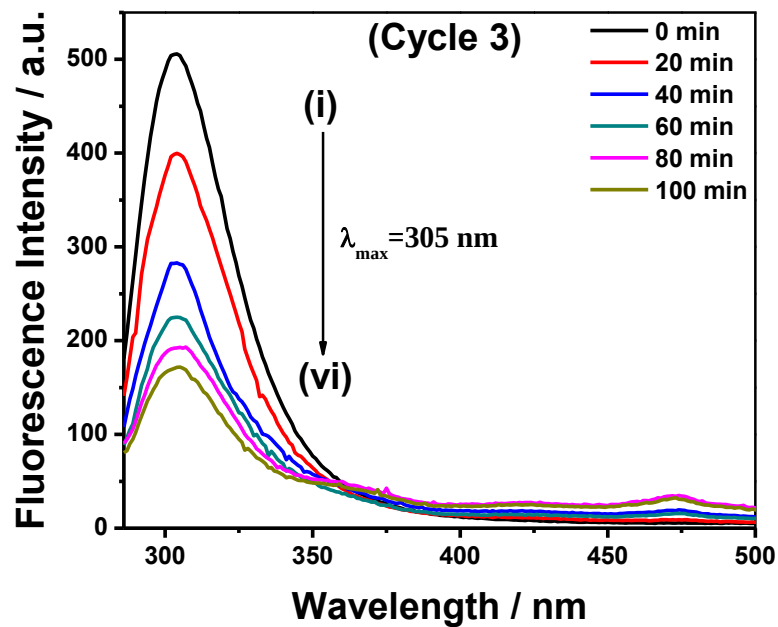


Fig S4: Photoluminescence spectra of residual phenol in presence of NiO I in three different cycles showing well recyclable NiO for environmental application

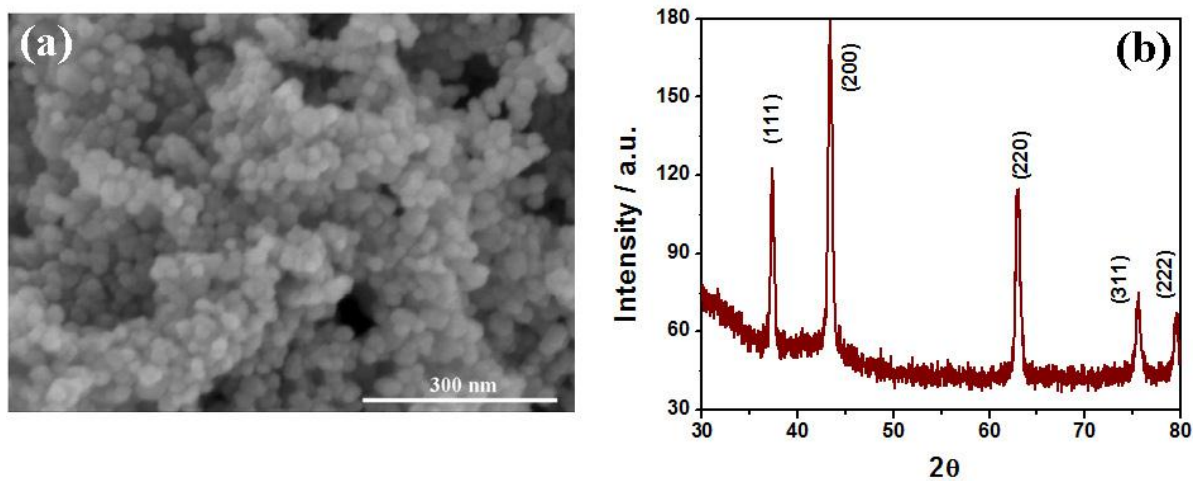


Fig S5: FESEM image of Commercial Nickel oxide (a) and its XRD pattern (b) confirming its crystallinity