

Supporting information for

Polymorph Control of Luminescence Properties in Molecular Crystals of a Platinum and Organoarsenic Complex and Formation of Stable One-Dimensional Nanochannel

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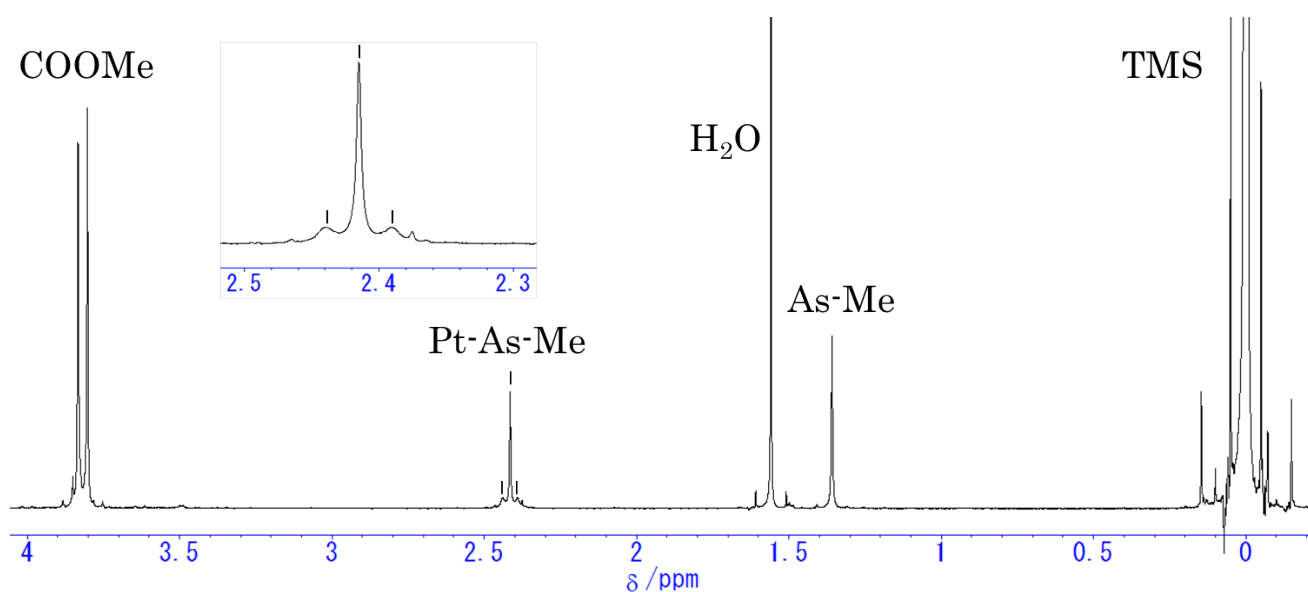


Figure S1. ^1H -NMR spectrum of *trans*-PtI₂(*cis*-DHDAMe)₂ in CDCl₃.

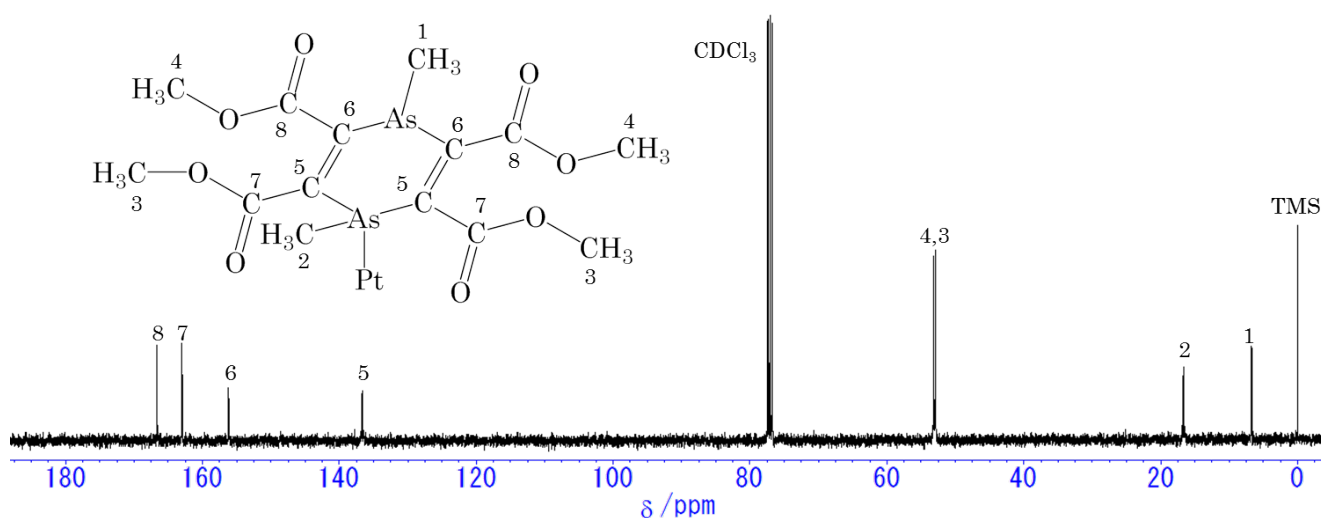


Figure S2. ^{13}C -NMR spectrum of *trans*-PtI₂(*cis*-DHDAMe)₂ in CDCl₃.

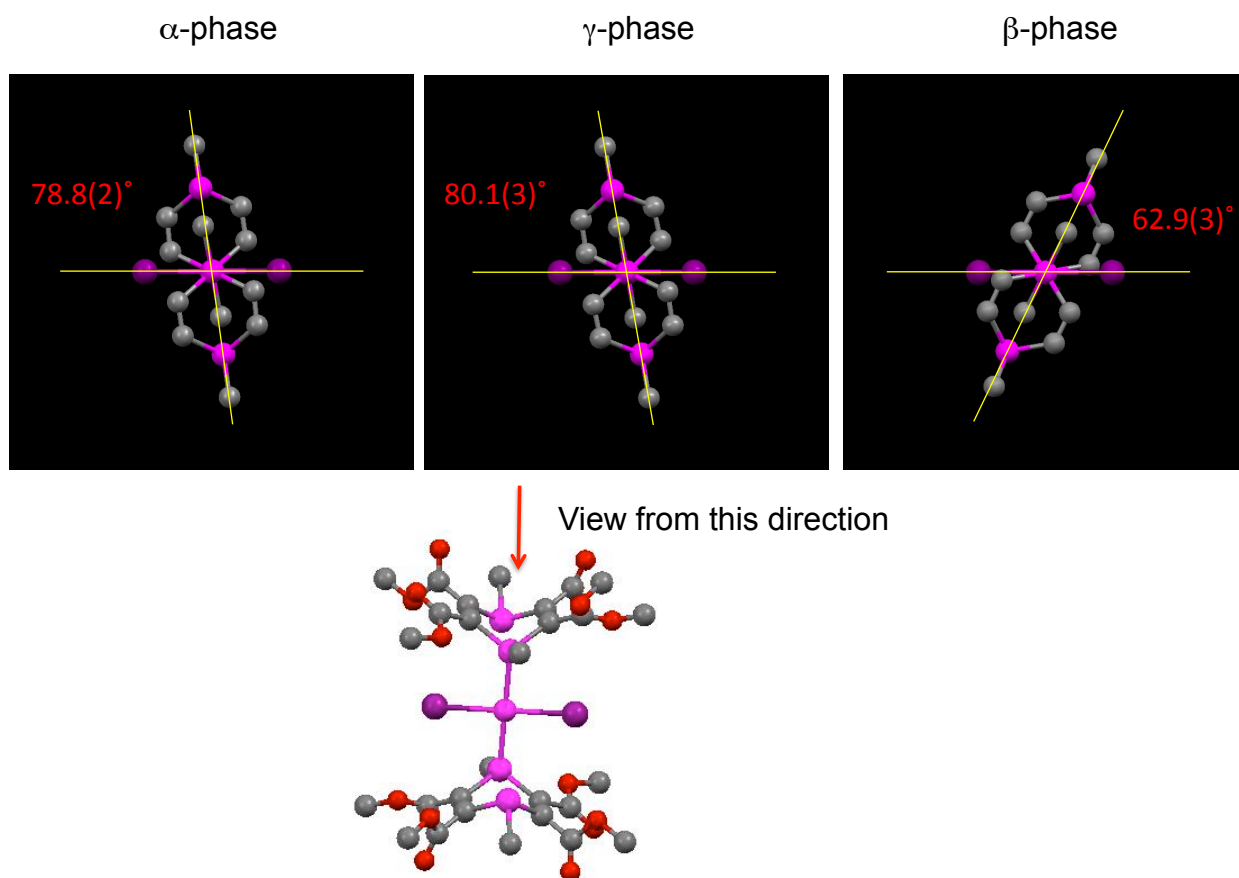


Figure S3. Comparison of the I(1)-Pt(2)-As(1)-C(1) torsion angles in α -, β -, and γ -phases.

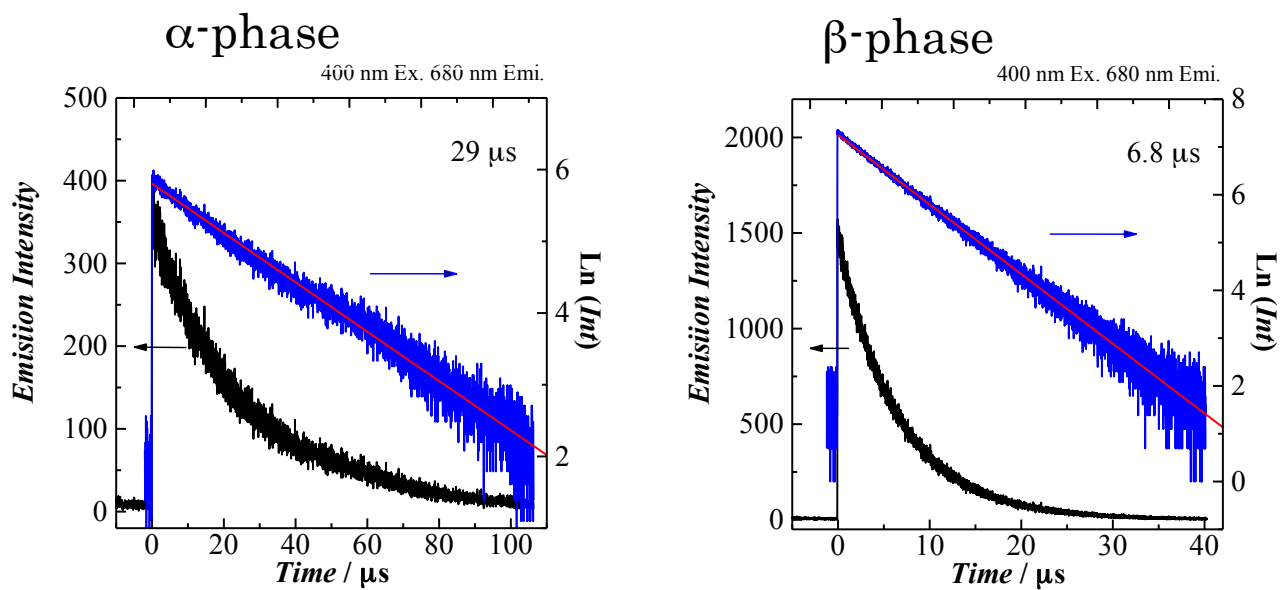


Figure S4. Observed emission decays (black line) and single-exponential plots (blue line) for the α -phase and β -phase crystals at room temperature.

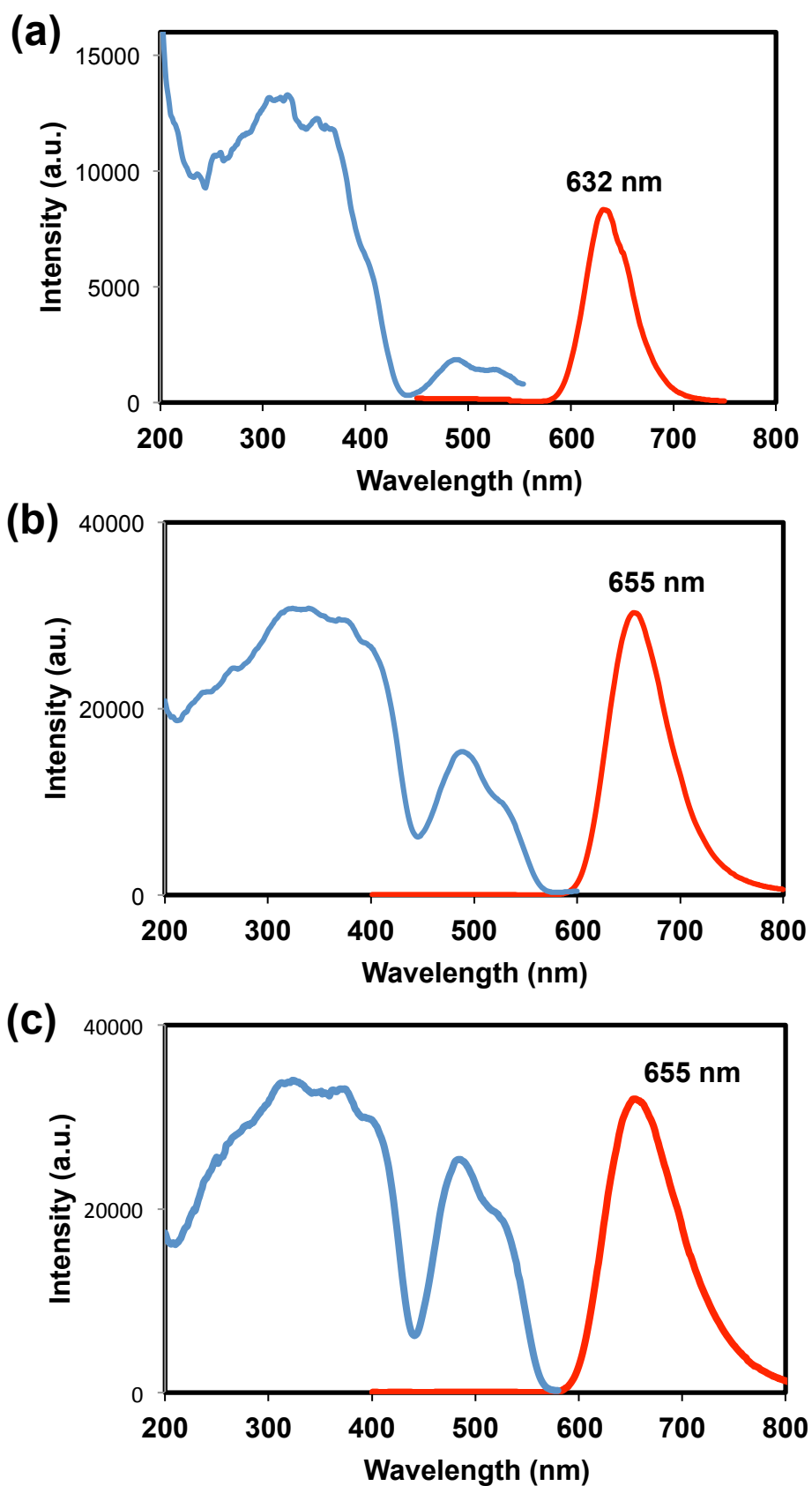


Figure S5. Solid state excitation and emission spectra measured at -196 °C for the crystals of (a) α -, (b) β -, and (c) γ -phases.

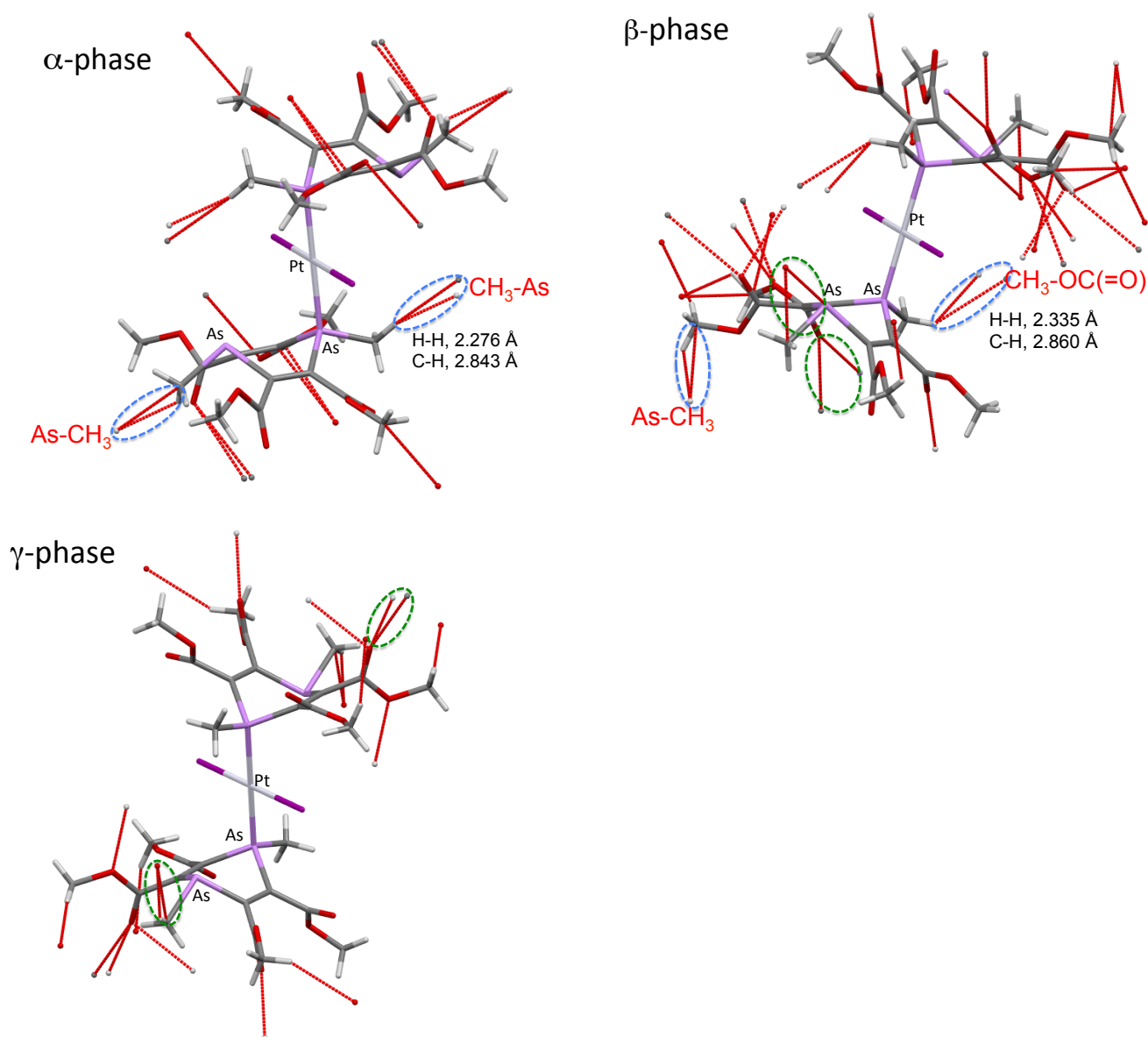


Figure S6. The crystal packing of the α -phase, β -phase and γ -phase crystals. Connected adjacent elements are indicated as dots with lines.

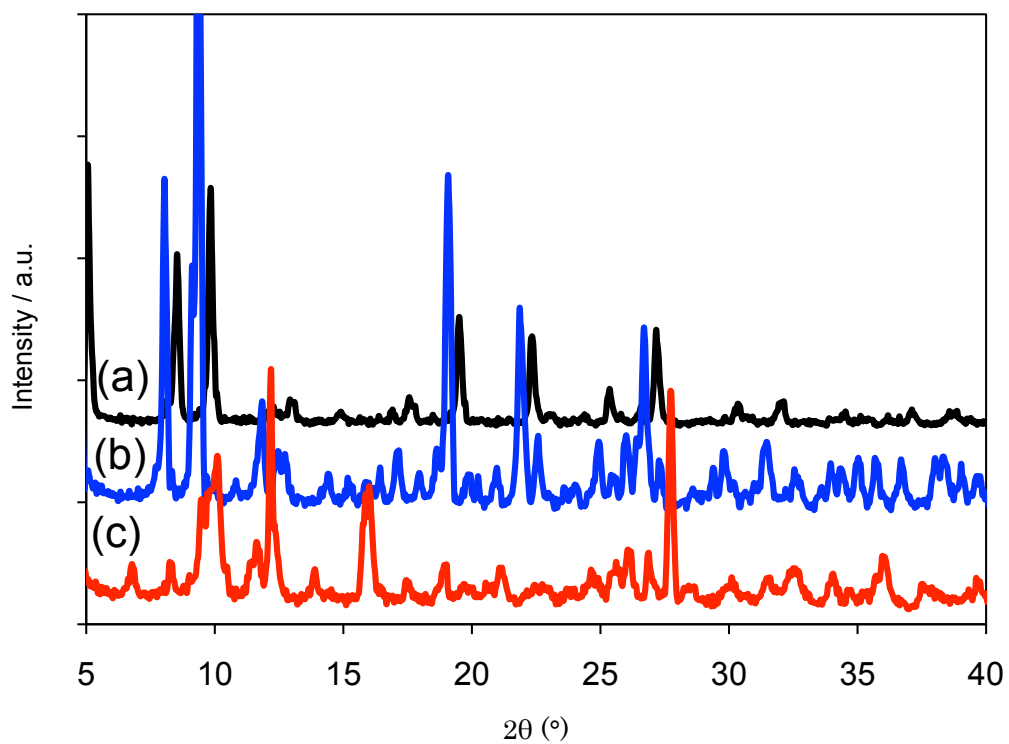


Figure S7. Powder XRD patterns of the crystals of β -phase before (a) and after heating at 110 °C (b), and 150 °C (c).

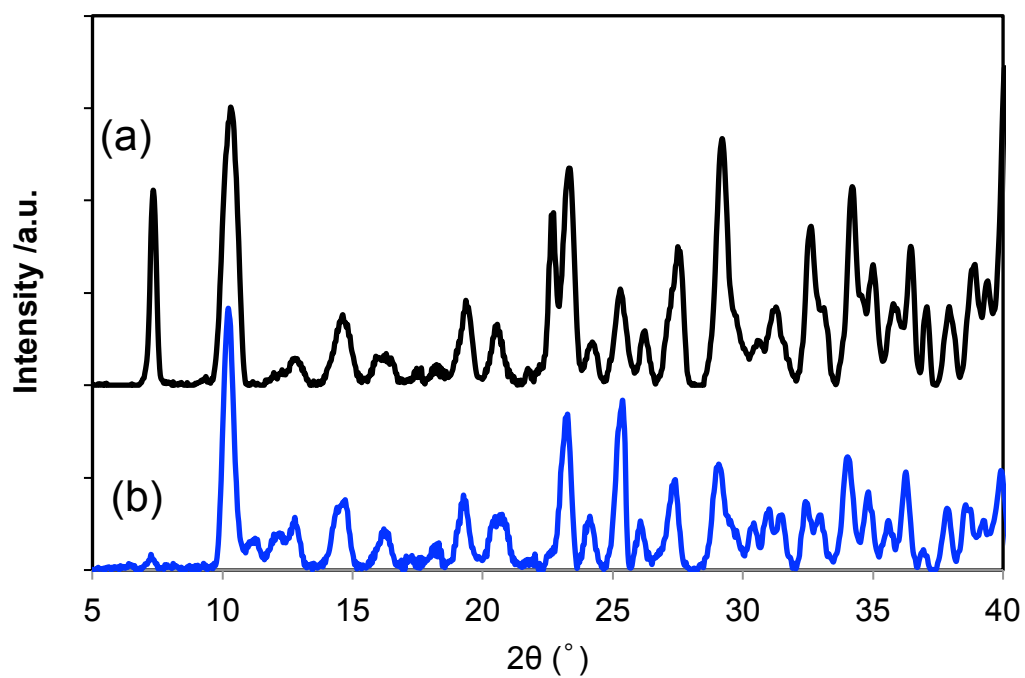


Figure S8. Powder XRD patterns of the crystals of γ -phase before (a) and after heating at 100 °C (b).