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Supporting information

Conventional preparation of the Ga₂O₃ precursor solution:

Analytical grade gallium nitrate hydrate Ga(NO₃)₃ was initially dissolved in a mixture of 2-methoxyethanol C₃H₈O₂ and monoethanolamine (MEA; C₂H₇NO) at room temperature. The concentration of this solution was maintained at 0.5 mol/L, ensuring the molar ratio of MEA to gallium nitrate hydrate remained at 1.0. Subsequently, the solution was stirred at 60 °C for 1 hour to achieve a clear and homogeneous mixture.

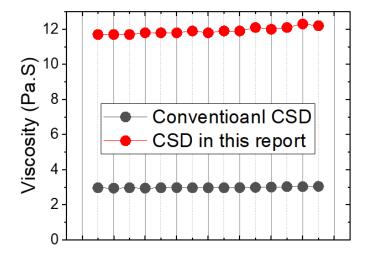


Figure S1. Viscosity of the precursor solution described in this report and that using conventional recipe.

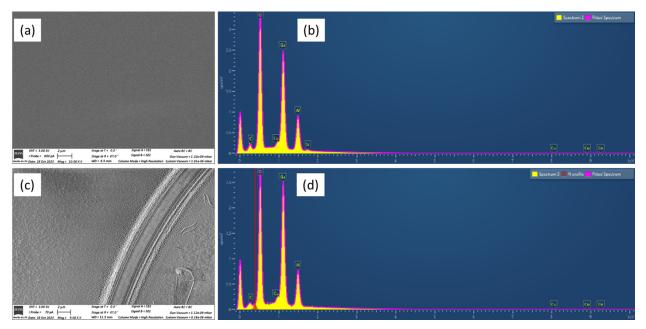


Figure S2. SEM images and the corresponding EDX patterns for sample GA (a, b) and sample GAS (c,d).