

Characterization of Fractal Structures by Spray Flame Synthesis Using X-ray Scattering

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Supplementary Material

To demonstrate that zirconia was formed during the spray flame synthesis (SFS), Figure S1 shows WAXS (wide angle X-ray scattering) data of zirconia produced with a precursor concentration $c = 0.4 \text{ mol l}^{-1}$ of zirconium butoxide in butanol (blue) and references for cubic (red) and tetragonal (gray) crystal structure in the range of $20^\circ < 2\theta < 55^\circ$. The pattern displays a mixture of both phases with a higher proportion of the cubic phase.

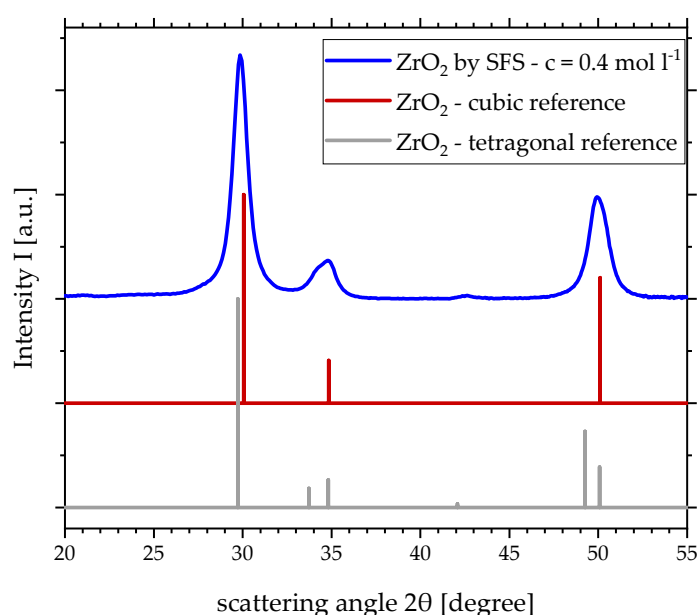


Figure S1: WAXS scattering data for zirconia made by SFS with $c = 0.4 \text{ mol l}^{-1}$ and reference data for cubic and tetragonal crystal structure of zirconia (calculated X-ray diffraction patterns) [26–28]

References

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