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## **Figure captions:**

- Figure S1. X-ray diffraction pattern of the as-prepared products.
- Figure S2. Raman spectrum of the as-prepared products at the range from 200 cm<sup>-1</sup> to 1000 cm<sup>-1</sup>.
- Figure S3. FT-IR spectrum of the as-prepared products.
- Figure S4. Raman spectrum of the as-prepared products at the range from 1000 cm<sup>-1</sup> to 1800 cm<sup>-1</sup>.







