

Supporting document:

**Diverse Pore Ordering in porous Silica: Synthesis and a Quantitative
Structural Insights Combining Scattering and Imaging Techniques**

*Avik Das¹, Satish K. Mandal¹, Nitesh Kumar², Nayan Maity², Ashwani Kumar¹, Swarnsikha
Sinha³, Jitendra Bahadur^{1,4}, Biswajit Chowdhury^{2*}, Debasis Sen^{1,4*}*

¹Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai 400 085, India

²Department of Chemistry and Chemical Biology, Indian Institute of Technology (Indian
School of Mines), Dhanbad, 826004, India

³Central University of Jharkhand, Ranchi, 835 222, India

⁴Homi Bhabha National Institute, Anushaktinagar, Mumbai 400 094, India

*Corresponding Author's Email: debasis@barc.gov.in, biswajit72@iitism.ac.in

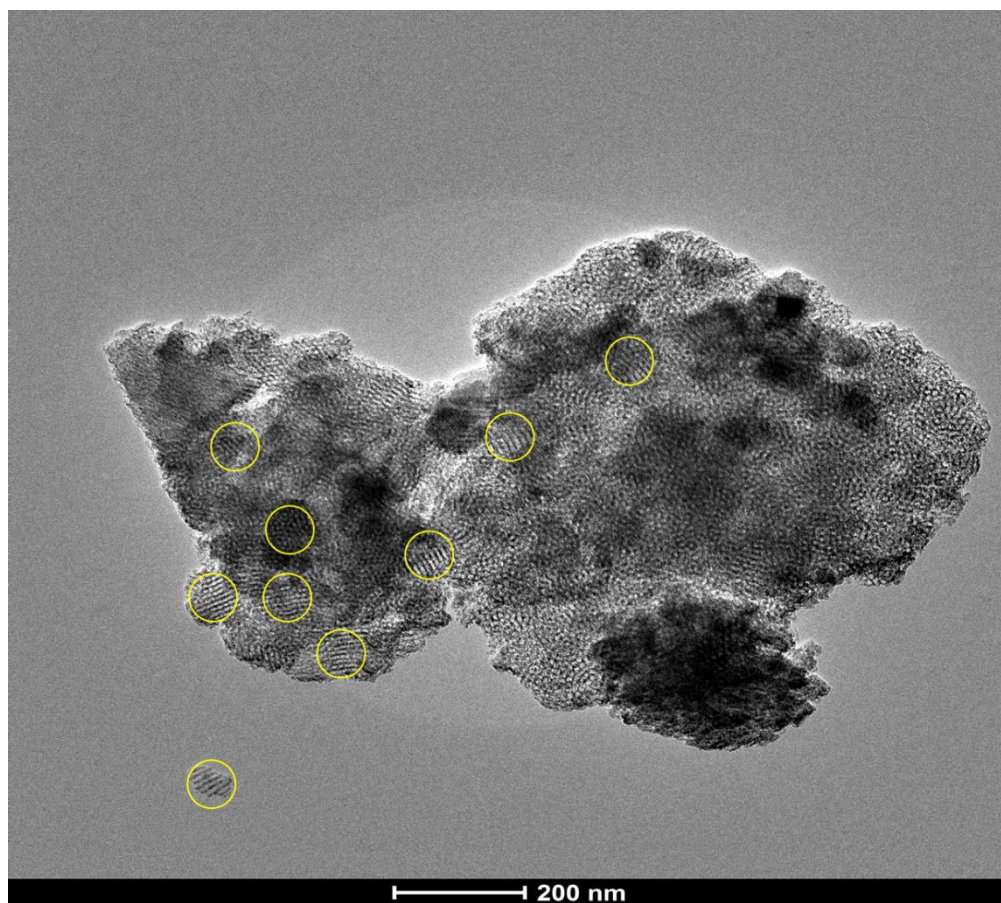


Fig. S1: HRTEM micrograph of PS-2 sample showing pore channels perpendicular to the [001] axis.

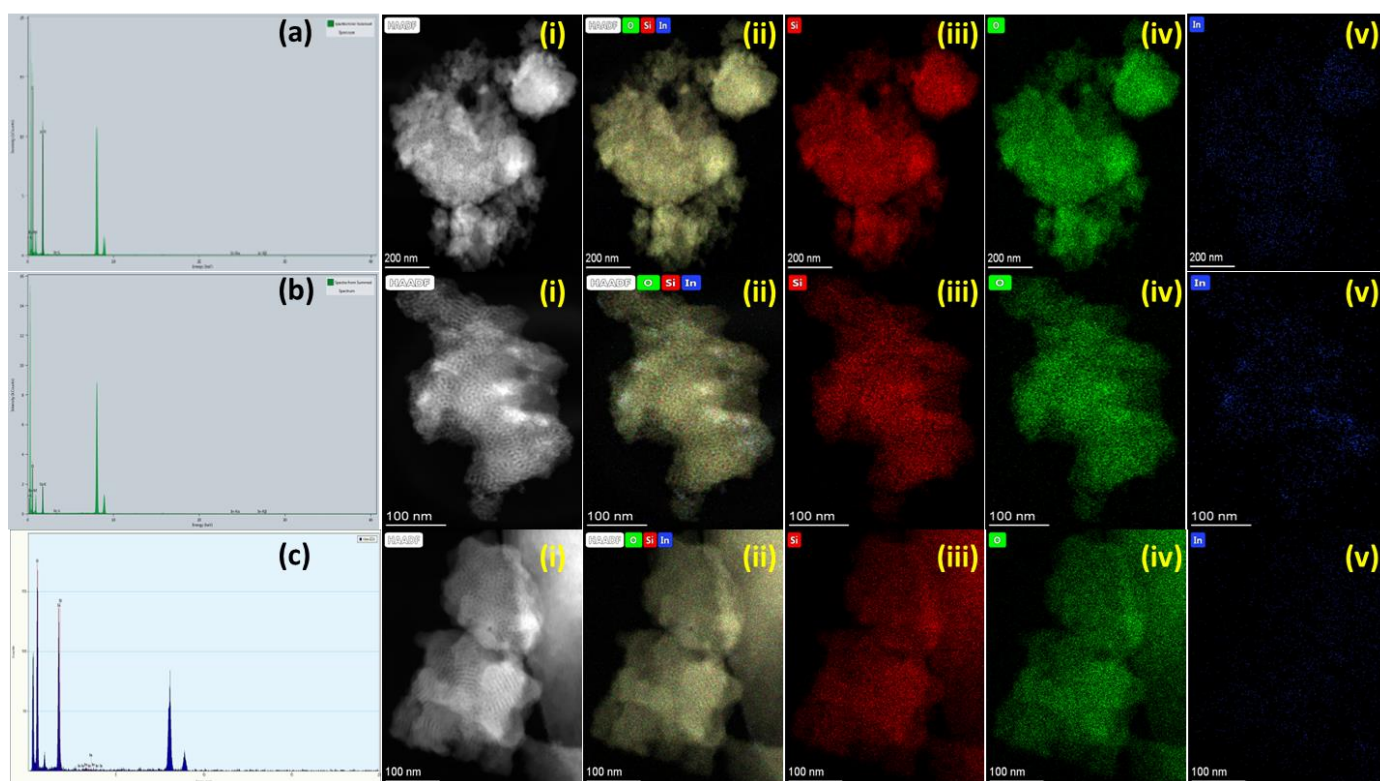


Fig. S2: Elemental mapping of synthesized mesoporous silica: (a) PS-1, (b) PS-2, and (c) PS-3. Fig. (a-c) [i, ii] represents HADDF pattern of the mapped area and Fig. (a-c) [iii, iv, and v] represent elemental mapping of Si, O and In, respectively.