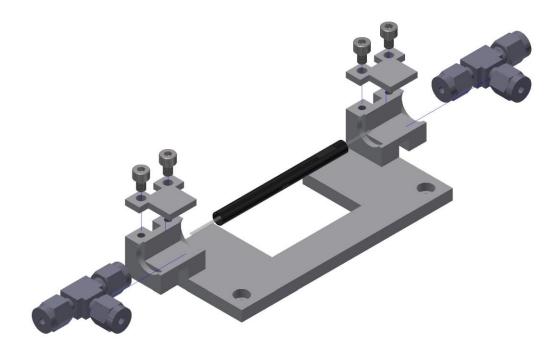


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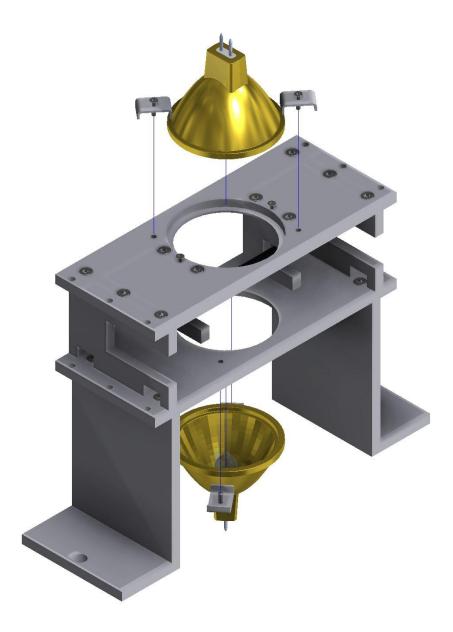
**Supporting information for article:** 

In situ/operando plug-flow fixed-bed cell for synchrotron PXRD and XAFS investigations at high temperature, pressure, controlled gas atmosphere and ultra-fast heating

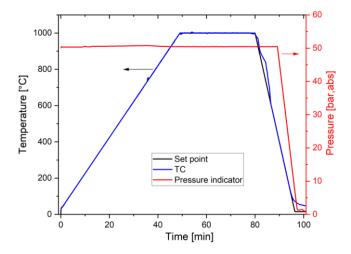
Benjamin Bischoff, Maged F. Bekheet, Emiliano Dal Molin, Sebastian Praetz, Birgit Kanngießer, Reinhard Schomäcker, Martin Etter, Henrik S. Jeppesen, Akhil Tayal, Aleksander Gurlo and Albert Gili



**Figure S1** Explosion view of the tube assembly with T-pieces and SiC tube.



**Figure S2** Explosion view of the cell assembly with IR lamps.



**Figure S3** Cell temperature response (TC) tracking the set point (rt-1000 °C, hold at 1000 °C for 30 min and 1000 °C-rt) at 50 bar (abs) as recorded by the PI P-01. Heating rate was 20 °C·min<sup>-1</sup>; cooling rate was 60 °C·min<sup>-1</sup>; the cell was depressurized at 6 bar·min<sup>-1</sup>. The cell had been pressurized under Argon.