

## Development of Enduring Interstitial Defects in Mg Doped CuO Thin Films

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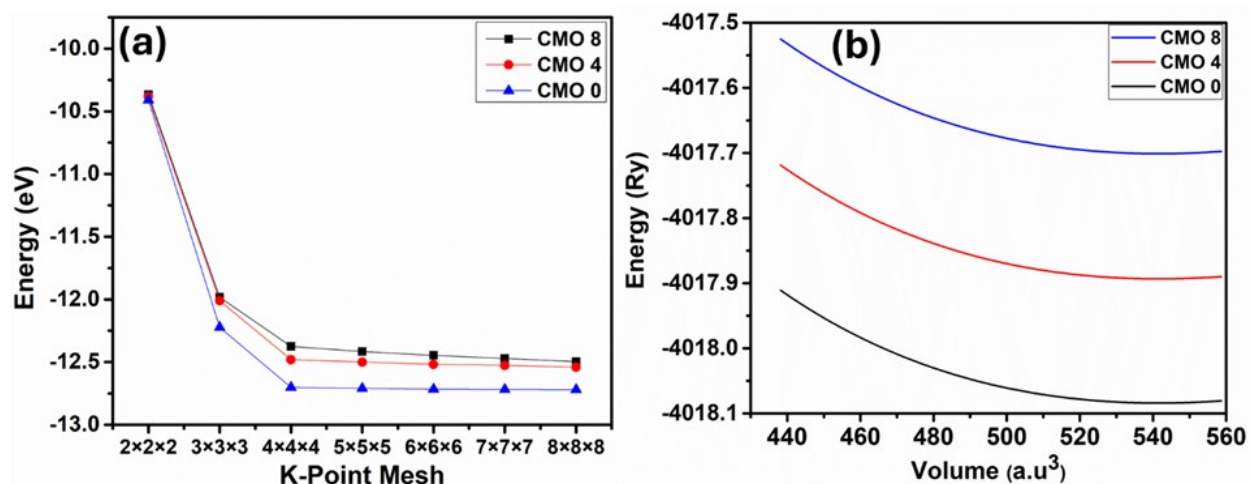
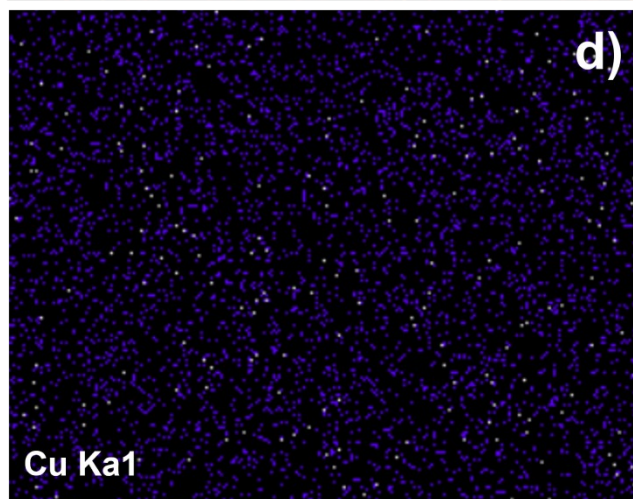
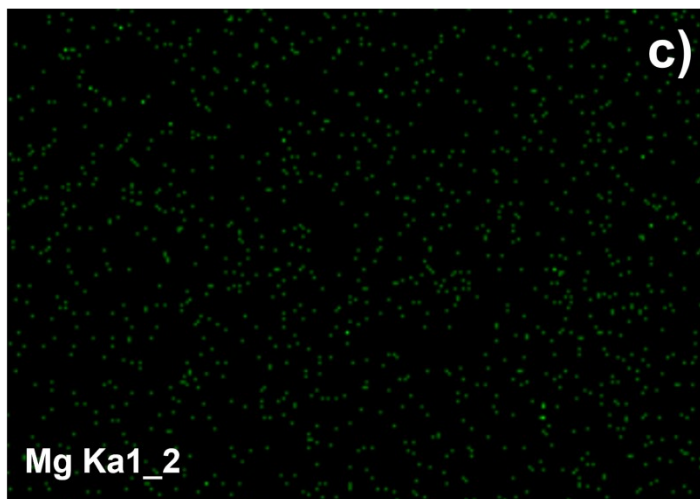
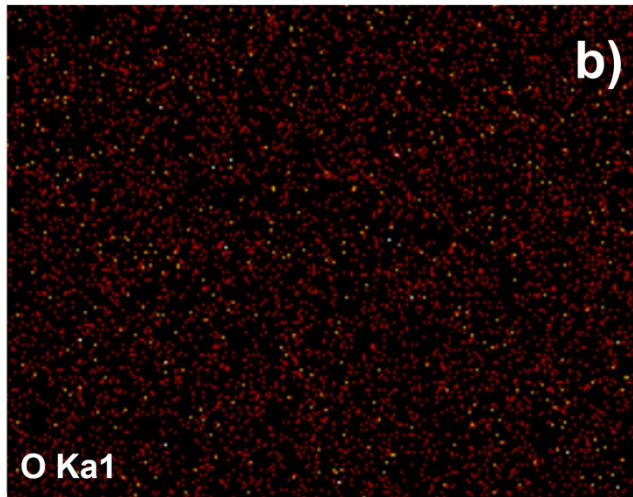
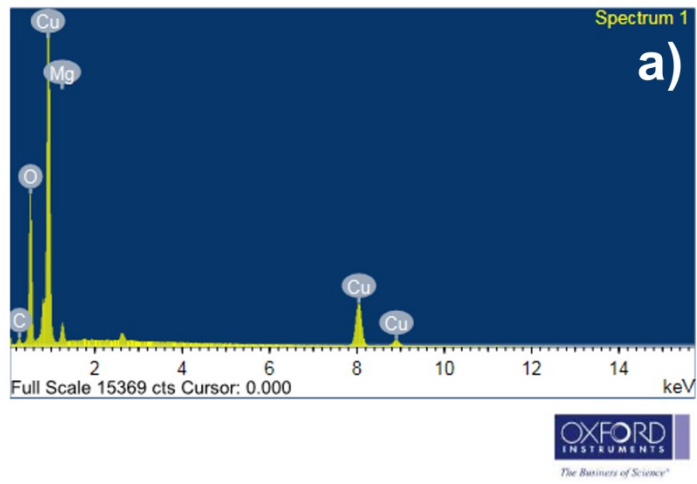
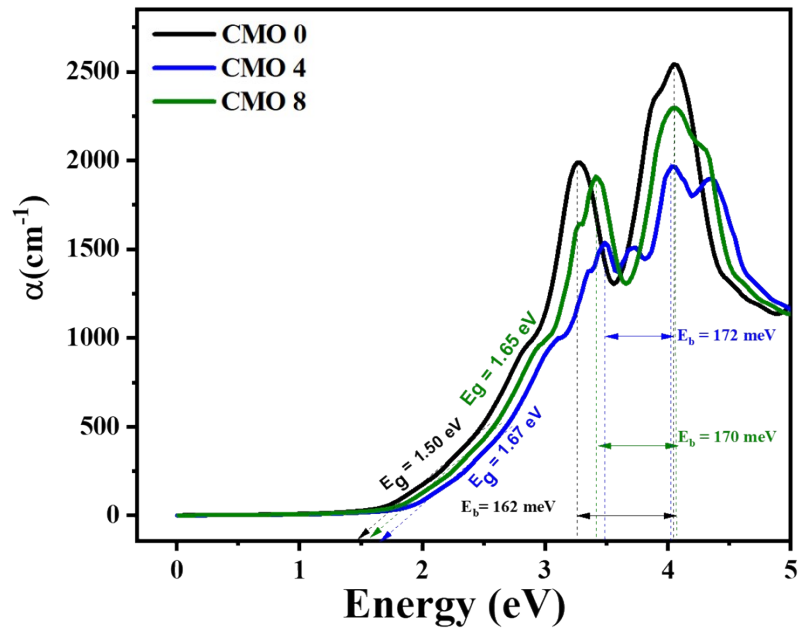


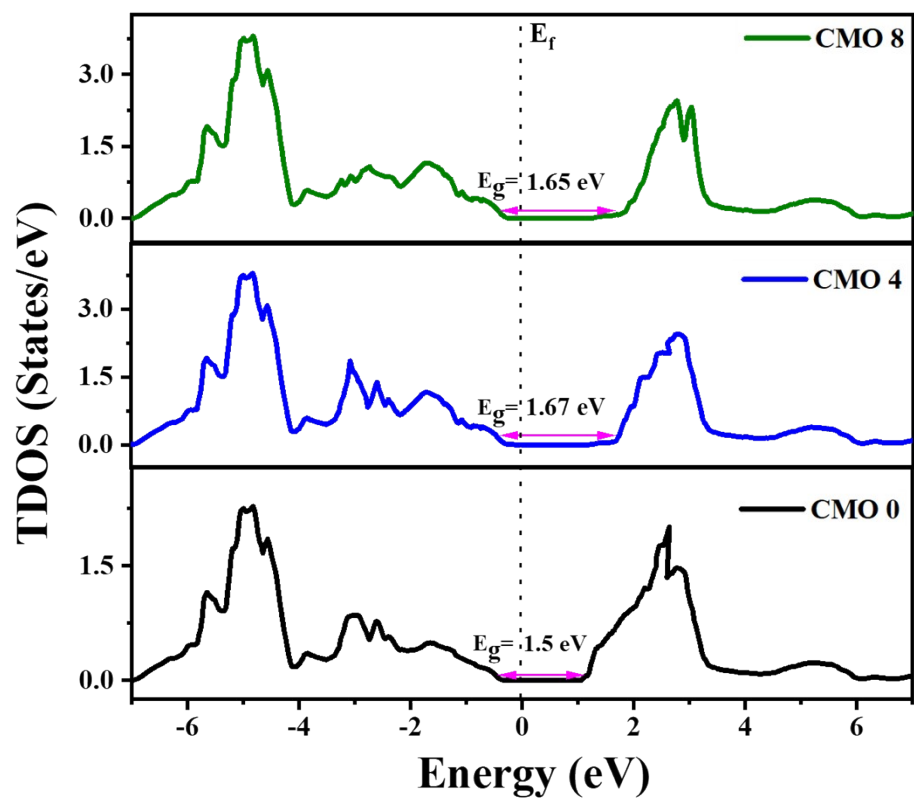
Fig S1: (a) K-point and (b) volume optimization.



*Fig S2: Representative a) EDAX spectrum, elemental mapping of b) O, c) Mg, d) Cu of CMO 8 sample*



*Fig S3: Simulated optical spectra of (a) CMO 0 (b) CMO 4 and (c) CMO 8*



*Fig S4: Total density of states of (a) CMO 0 (b) CMO 4 and (c) CMO 8*