

Supplementary Information

Selective surfaces: High surface area zinc tin sulfide chalcogels

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Figures

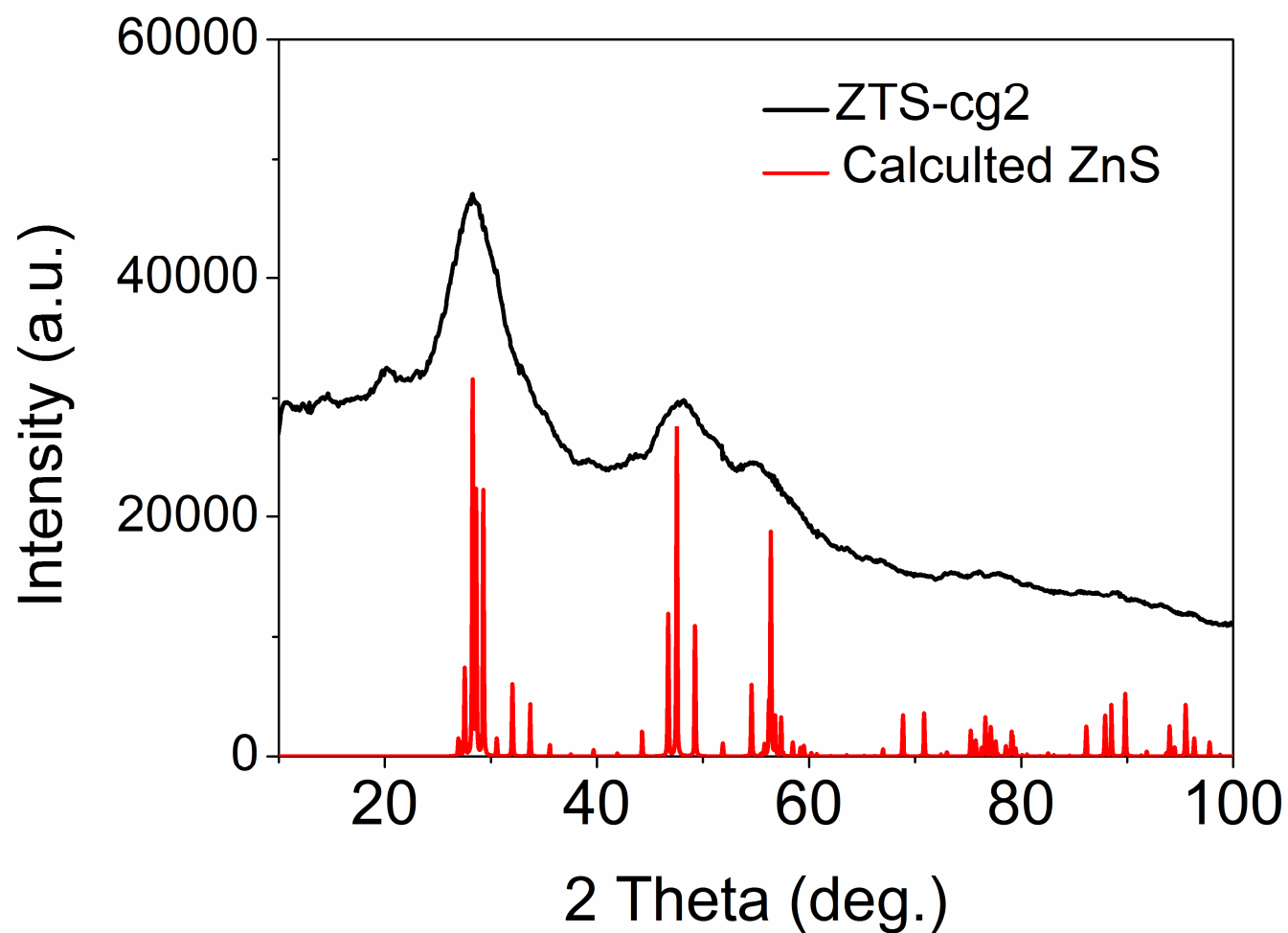


Fig. S. 1 PXRD pattern of ZTS-cg2 sample exposed to x-ray beam for 8 h beginning to showing nano-crystalline ZnS phase

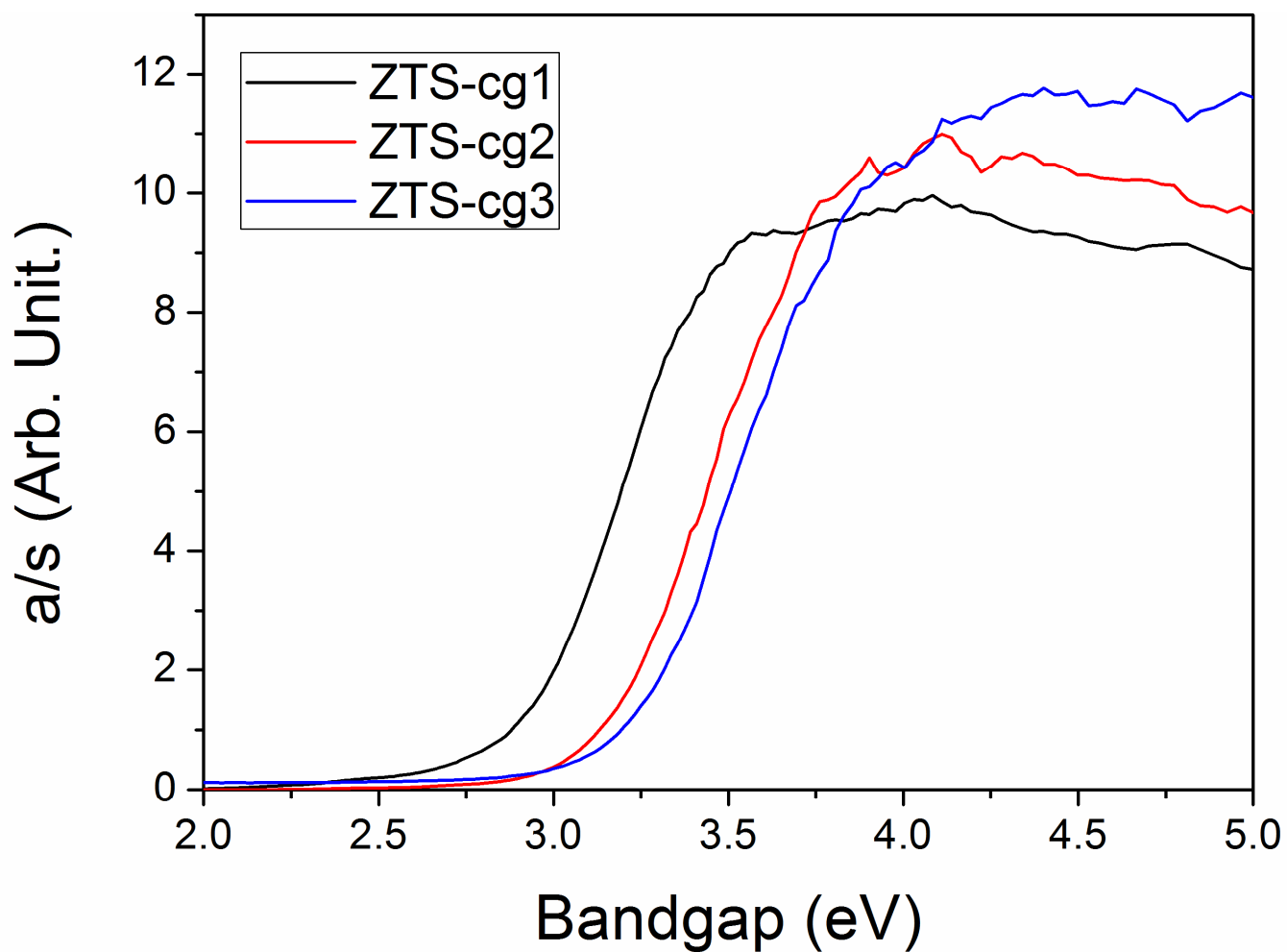


Fig. S. 2 Bandgap Energy of ZTS-cg1, ZTS-cg2, and ZTS-cg3 based on UV-Vis diffusive reflectance data converted by Kubelka-Munk function. Zinc chalcogel shows wide bandgap energy of 2.9 eV (ZTS-cg1), 3.1 eV (ZTS-cg2), and 3.2 eV (ZTS-cg3)

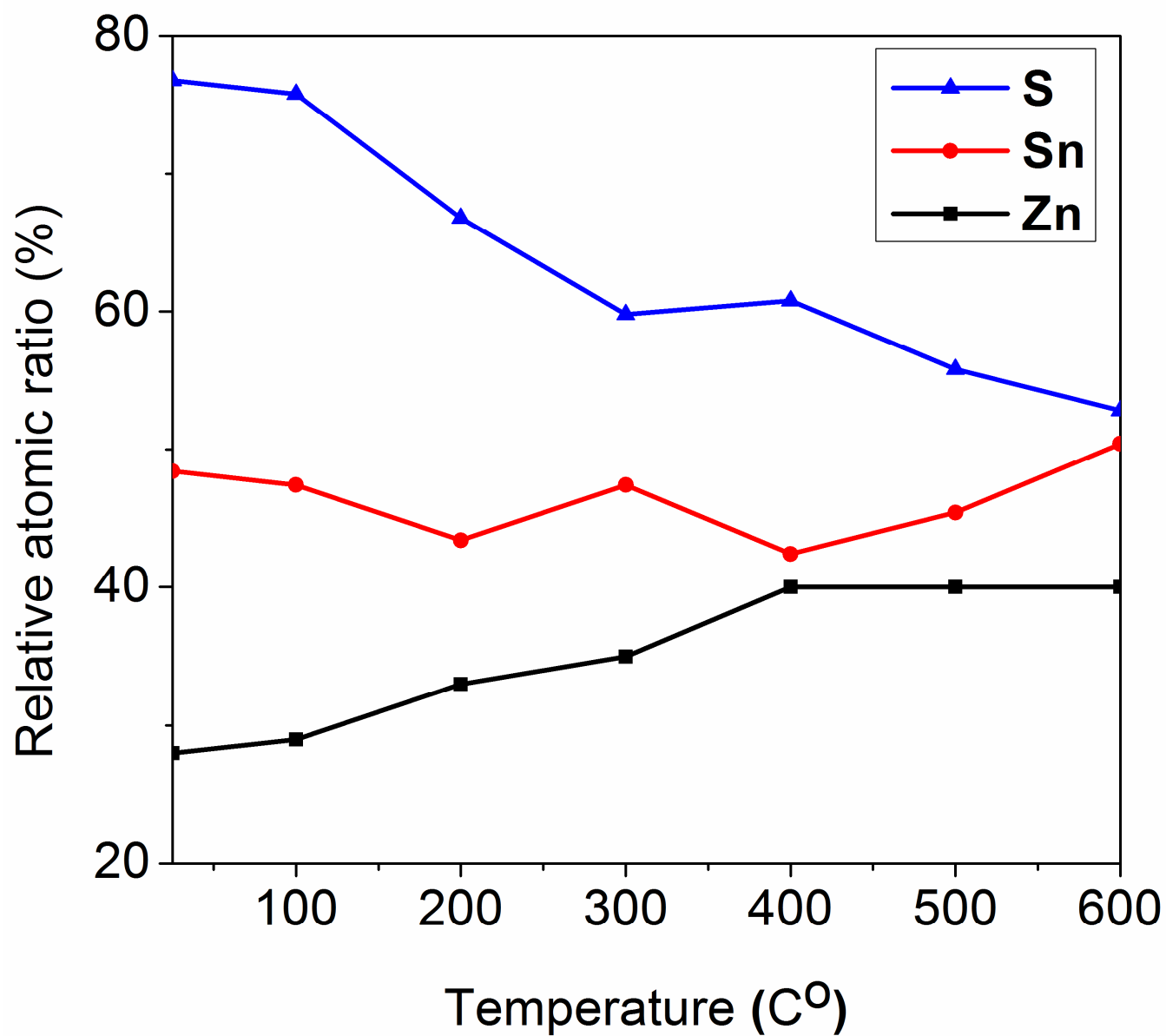


Fig. S. 3 Relative atomic ratio change of the ZTS-cg2 composition upon heating tracked by EDS analysis