ELECTRONIC SUPPORTING INFORMATION

Synthesis, crystal and electronic structure, and optical properties of two

new chalcogenide-iodides: $Ba_3Q_4I_2$ (Q = S, Se)

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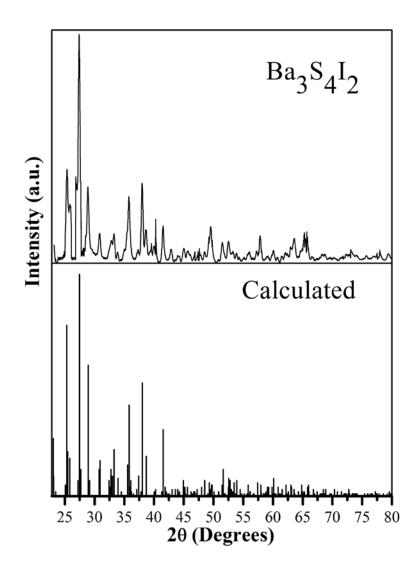


Figure S1. Experimental (top) and calculated (bottom) powder X-ray diffraction patterns for $Ba_3S_4I_2$.

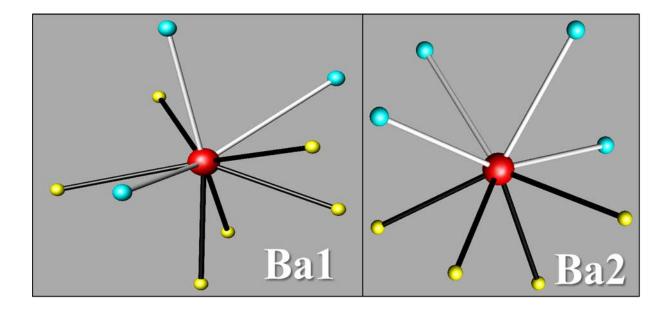


Figure S2. Coordination of the Ba1 and Ba2 atoms in the crystal structure of $Ba_3S_4I_2$.