materials

Supplementary Materials: Topotactic Oxidation of Perovskites to Novel $SrMo_{1-x}M_xO_{4-\delta}$ (M = Fe and Cr) Deficient Scheelite-Type Oxides

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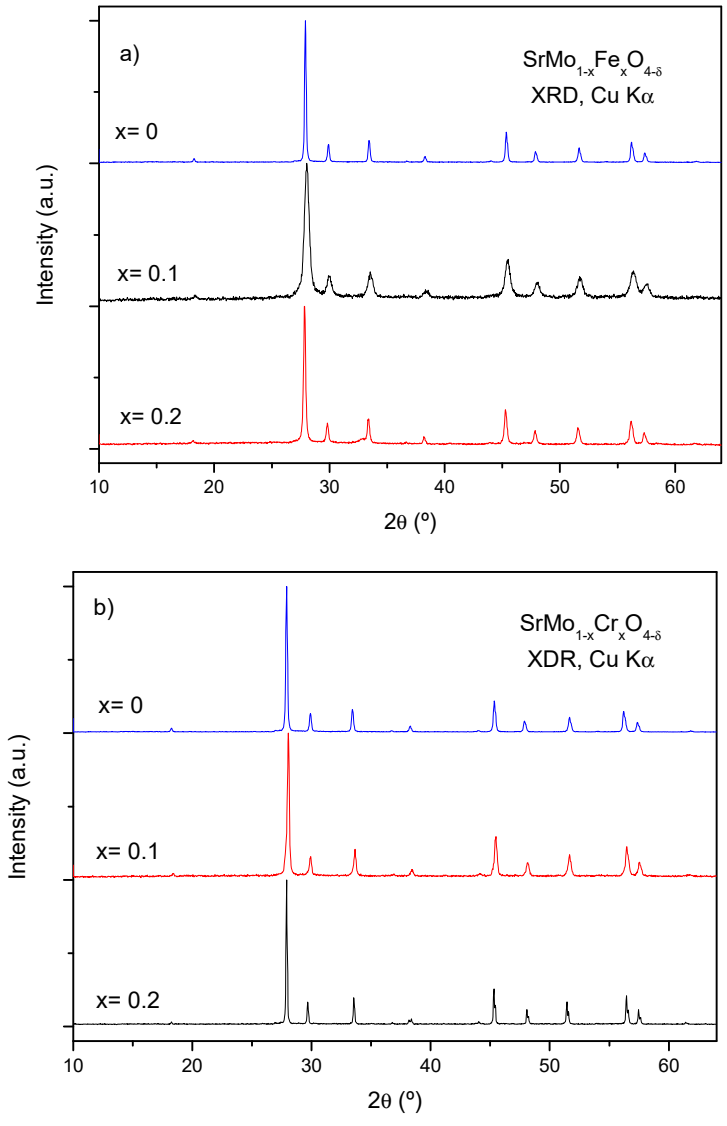

Figure S1. XRD patterns with Cu Kα radiation for (**a**) $SrMo_{1-x}Fe_xO_{4-\delta}$ (x = 0, 0.1, 0.2) and (**b**) $SrMo_{1-x}Cr_xO_{4-\delta}$ (x = 0, 0.1, 0.2), characteristic of pure tetragonal scheelite phases.

Table S1. Unit-cell parameters for $SrMo_{1-x}M_xO_{4-\delta}$ defined in the in tetragonal $I4_1/a$ (No 88) space group, $Z = 4$, from XRD at 25 °C.

Unit-Cell Parameters	$SrMoO_4$	$SrMo_{0.9}Fe_{0.1}O_{4-\delta}$	$SrMo_{0.8}Fe_{0.2}O_{4-\delta}$	$SrMo_{0.9}Cr_{0.1}O_{4-\delta}$	$SrMo_{0.8}Cr_{0.2}O_{4-\delta}$
a (Å)	5.3915(2)	5.3992(4)	5.4019(3)	5.3795(4)	5.3859(2)
b (Å)	5.3915(2)	5.3992(4)	5.4019(3)	5.3795(4)	5.3859(2)
c (Å)	12.0441(2)	12.0681(2)	12.0795(3)	12.1225(5)	12.1381(2)
V ($Å^3$)	349.84(2)	351.75(1)	352.87(2)	350.33(2)	351.06(3)