Erratum: Sr$_2$CrOsO$_6$: End point of a spin-polarized metal-insulator transition by 5*d* band filling [Phys. Rev. B 75, 020404(R) (2007)]

Y. Krockenberger, K. Mogare, M. Reehuis, M. Tovar, M. Jansen, G. Vaitheeswaran, V. Kanchana, F. Bultmark, A. Delin, F. Wilhelm, A. Rogalev, A. Winkler, and L. Alff

Table I of this paper has incorrect entries. The correct table is given below. These errors do not affect the results and conclusions of the paper.

TABLE I. Results of the structure refinements of Sr$_2$CrOsO$_6$. For the neutron powder data collected at 2 K, 100 K, 200 K and 298 K the crystal structure was refined in the trigonal space group $R\bar{3}$. At the higher temperatures 540 K and 770 K the refinements were carried out in the cubic space group $Fm\bar{3}m$. The residuals of the crystal and magnetic structures are defined as $R_N=\Sigma\|F_0\|-|F_c\|/|F_0|$ and $R_M=\Sigma\|I_0\|-|I_c\|/|I_0|$, respectively. For the refinements several parameters were constrained to be equal. In these cases the standard deviation is listed only for one of the equal parameters. As distortion we define $c/(\sqrt{6}a)$, i.e., the ratio c/a normalized to the value of a cubic structure in hexagonal notation ($\sqrt{6}$). See also Ref. 1.

T [K]	2	100	200	298	540	770
Space group	$R\bar{3}$	$R\bar{3}$	$R\bar{3}$	$R\bar{3}$	$Fm\bar{3}m$	$Fm\bar{3}m$
a [Å]	5.5176(3)	5.5170(4)	5.5178(3)	5.5181(6)	7.8243(2)	7.8455(3)
c [Å]	13.445(1)	13.454(1)	13.470(1)	13.500(1)	—	—
V [Å^3]	354.47(4)	354.64(4)	355.16(4)	355.98(8)	479.00(4)	482.90(5)
c/a	2.4367(4)	2.4386(3)	2.4412(4)	2.4464(8)	—	—
Distortion	0.9948	0.9956	0.9966	0.9988	1	1
x_O, y_O, z_O, site	0.335(1), 0.1908(7), 0.4169(6), 18f	0.335(2), 0.1900(7), 0.4171(7), 18f	0.336(2), 0.1876(8), 0.4171(8), 18f	0.335(4), 0.183(1), 0.417(2), 18f	0.2511(5),0, 0 24e	0.2511(5), 0, 0, 24e
x_{Sr}, y_{Sr}, z_{Sr}, site	0, 0, 0.251(1), 6c	0, 0, 0.251(2), 6c	0, 0, 0.251(2), 6c	0, 0, 0.252(4), 6c	$\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, 8c	$\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, 8c
x_{Os}, y_{Os}, z_{Os}, site	0, 0, $\frac{1}{2}$, 3b	0, 0, $\frac{1}{2}$, 3b	0, 0, $\frac{1}{2}$, 3b	0, 0, $\frac{1}{2}$, 3b	0, 0, 0, 4a	0, 0, 0, 4a
x_{Cr}, y_{Cr}, z_{Cr}, site	0, 0, 0, 3a	0, 0, 0, 3a	0, 0, 0, 3a	0, 0, 0, 3a	$\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, 4b	$\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, 4b
B(Sr) [Å^2]	0.36(4)	0.40(4)	0.48(4)	0.63(4)	1.09(4)	1.47(5)
B(Cr,Os) [Å^2]	0.21(2)	0.22(2)	0.25(2)	0.30(3)	0.42(3)	0.51(4)
B(O) [Å^2]	0.45(3)	0.47(3)	0.50(3)	0.67(3)	1.41(3)	1.72(4)
d(Cr-O) [Å]	1.947(7)	1.948(8)	1.946(9)	1.95(2)	1.948(4)	1.953(4)
d(Os-O) [Å]	1.957(7)	1.955(8)	1.957(9)	1.96(2)	1.965(4)	1.970(4)
R_N	0.039	0.040	0.040	0.037	0.034	0.039
μ_{Cr} [μ_B]	2.0(3)	1.9(3)	2.0(3)	1.9(2)	1.8(2)	0
μ_{Os} [μ_B]	−0.7(3)	−0.6(3)	−0.3(2)	−0.1(2)	−0.05	0
R_M	0.070	0.082	0.065	0.078	0.103	—

[1] Y. Krockenberger, M. Reehuis, M. Tovar, K. Mogare, M. Jansen, and L. Alff, J. Magn. Magn. Mater. **310**, 1854 (2007).