Supporting information

Fractional coordinates, atomic displacement parameters, and occupation factors for the structure model of $Ga_2O_3(ZnO)_9$.

	x	*y*	*z*	U_{eq}	*Occ.* (Zn/Ga)
*M*1	0	0.69785	0.02547	0.0110	0.818/0.182
*M*2	0	0.32446	0.07025	0.0114	0.818/0.182
*M*3	0	0.94575	0.11781	0.0119	0.818/0.182
*M*4	0	0.56807	0.16033	0.0160	0.818/0.182
*M*5	0	0.18843	0.20297	0.0110	0.818/0.182
*M*6	0	0.07163	0.51879	0.0119	0.818/0.182
*M*7	0	0.44822	0.56409	0.0128	0.818/0.182
*M*8	0	0.82284	0.60655	0.0129	0.818/0.182
*M*9	0	0.20121	0.65249	0.0113	0.818/0.182
*M*10	0	0.57989	0.70012	0.0112	0.818/0.182
*M*11	0	0.95841	0.75	0.0420	0.456/0.101
*M*12	0.5	0.93144	0.75	0.0154	0.362/0.081
*M*13	0	0.80742	0.25	0.0102	0.818/0.182
O1	0	0.3837	0.0052	0.0292	
O2	0	0.0184	0.0404	0.0200	
O3	0	0.6462	0.0804	0.0162	
O4	0	0.2725	0.1236	0.0138	
O5	0	0.8939	0.1693	0.0126	
O6	0	0.5163	0.2083	0.0464	
O7	0	0.1320	0.25	0.0211	
O8	0	0.7523	0.5349	0.0244	
O9	0	0.1231	0.5761	0.0159	
O10	0	0.4984	0.6174	0.0134	
O11	0	0.8753	0.6580	0.0132	
O12	0	0.2547	0.7032	0.0114	
O13	0	0.6346	0.75	0.0104	

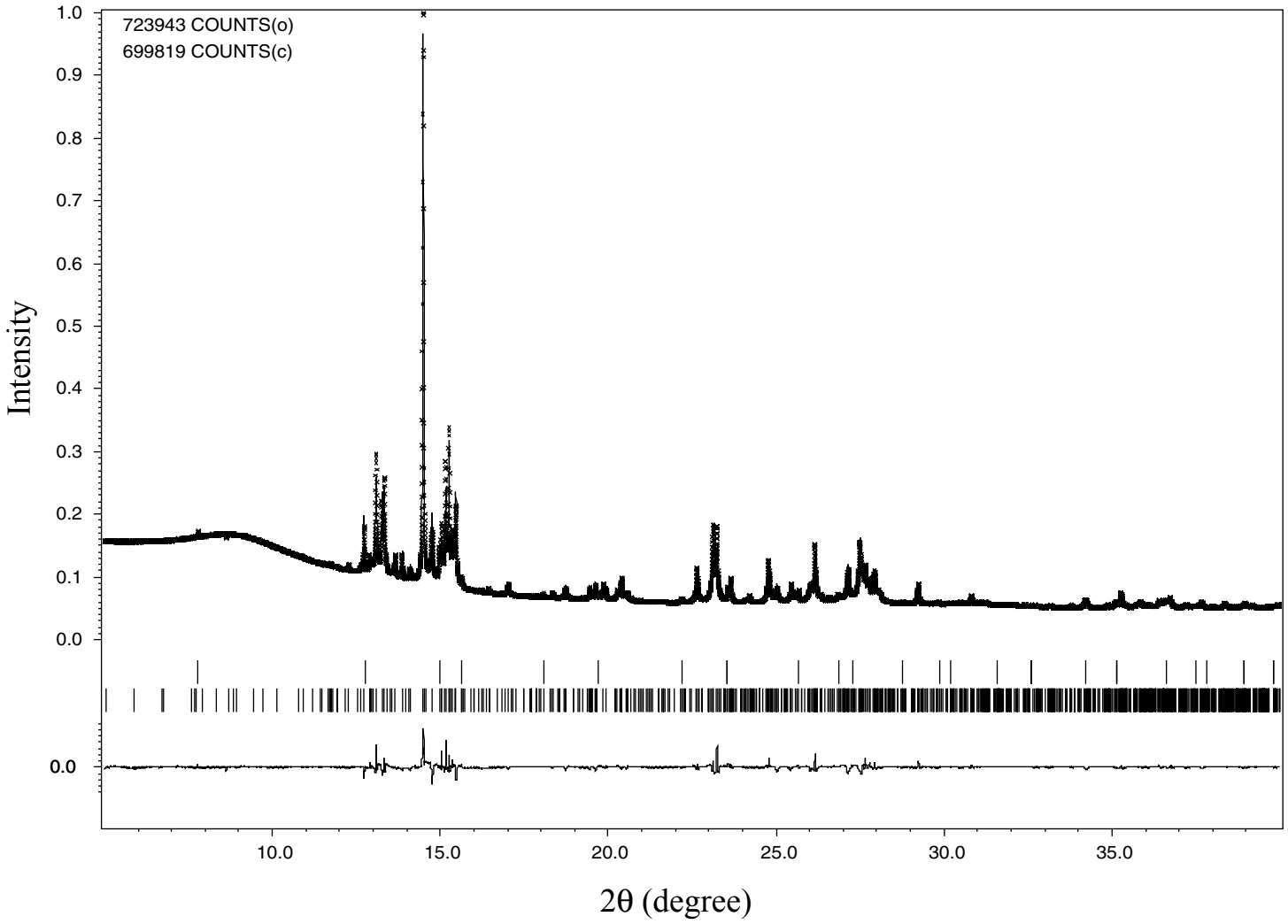

Fig. S1 Final Rietveld fit for the product of a mixture with the composition $Ga_2O_3(ZnO)_9$. Observed data are represented by ×, and the calculated profile is by the solid line. Upper and lower ticks are positions of Ga_2ZnO_4 and $Ga_2O_3(ZnO)_9$, respectively. The difference plot is at the bottom.