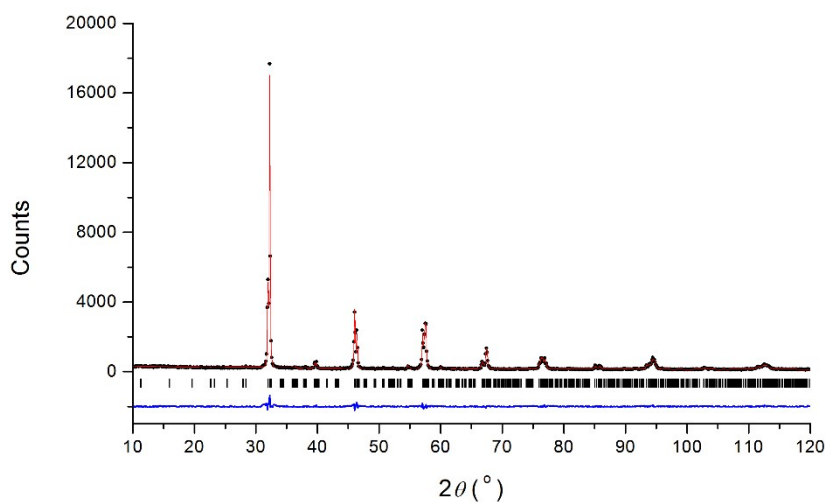


Supplementary Information

(a)



(b)

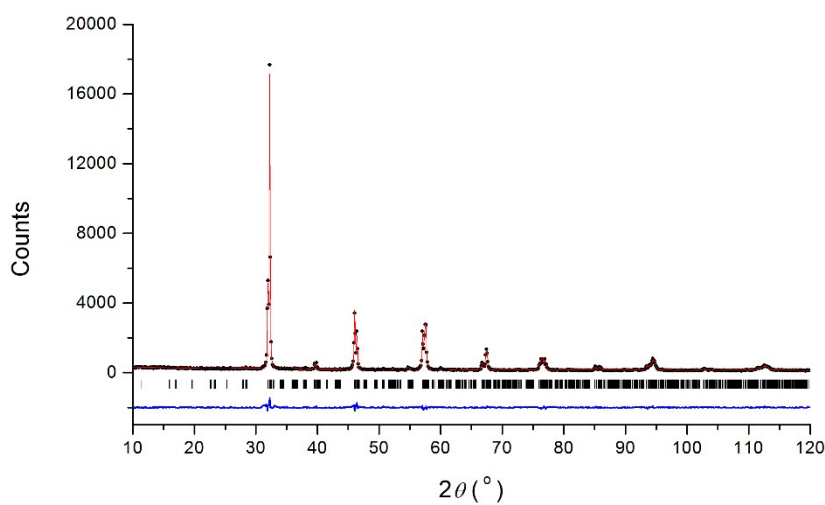


Fig. S1. Fitted X-ray powder diffraction profiles for AgNbO_3 (a) $Pbcm$ and (b) $Pb2_1m$ models, showing observed (points), fitted (line) and difference (lower) profiles. Reflection positions are indicated by markers.

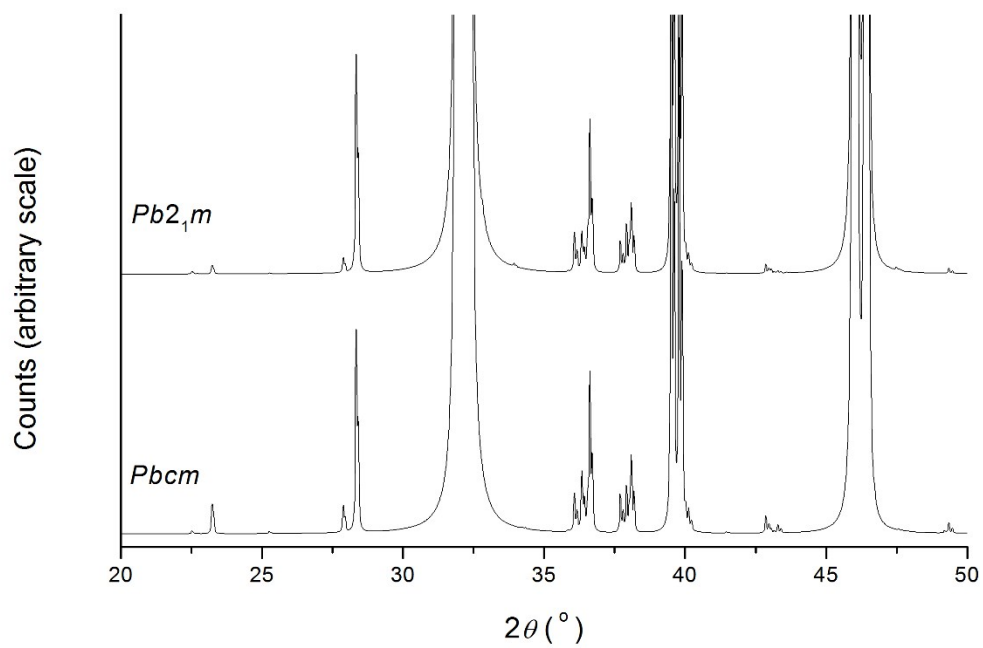


Fig. S2. Comparison of calculated X-ray diffraction patterns based on the published data for polar (ref.19) and non-polar (ref.17) structure models for AgNbO_3 .

Table S1. Refined structural parameters for AgNbO₃ ground ceramic powder for (a) *Pbcm* and (b) *Pb2₁m* models. Estimated Standard deviations are given in parentheses.

(a)

Atom	Site	<i>x</i>	<i>y</i>	<i>z</i>	Occ.	<i>U</i> _{iso} (Å ²)
Ag(1)	4 <i>d</i>	0.7534(24)	0.2309(10)	0.75	1	0.0249(7)
Ag(2)	4 <i>c</i>	0.7540(24)	0.25	0.5	1	0.0249(7)
Nb	8 <i>e</i>	0.7484(20)	0.7290(8)	0.6254(5)	1	0.0206(8)
O(1)	4 <i>d</i>	0.719(15)	0.770(5)	0.75	1	0.034(3)
O(2)	4 <i>c</i>	0.796(13)	0.75	0.5	1	0.034(3)
O(3)	8 <i>e</i>	0.454(5)	0.547(8)	0.612(2)	1	0.034(3)
O(4)	8 <i>e</i>	0.992(6)	0.509(7)	0.639(2)	1	0.034(3)

(b)

Atom	Site	<i>x</i>	<i>y</i>	<i>z</i>	Occ.	<i>U</i> _{iso} (Å ²)
Ag(1)*	4 <i>c</i>	0.7468	0.2601	0.7499	1	0.0281(9)
Ag(2)	2 <i>b</i>	0.7427(34)	0.2491(25)	0.5	1	0.0281(9)
Ag(3)	2 <i>a</i>	0.7492(34)	0.2866(24)	0	1	0.0281(9)
Nb(1)	4 <i>c</i>	0.7574(27)	0.7347(22)	0.6235(9)	1	0.017(1)
Nb(2)	4 <i>c</i>	0.2543(28)	0.2770(33)	0.1244(10)	1	0.017(1)
O(1)	4 <i>c</i>	0.694(12)	0.753(12)	0.731(2)	1	0.025
O(2)	2 <i>b</i>	0.755(19)	0.813(10)	0.5	1	0.025
O(3)	4 <i>c</i>	0.464(16)	0.578(11)	0.652(4)	1	0.025
O(4)	4 <i>c</i>	0.016(16)	0.566(12)	0.623(4)	1	0.025
O(5)	2 <i>a</i>	0.161(21)	0.304(12)	0	1	0.025
O(6)	4 <i>c</i>	0.018(13)	0.030(11)	0.147(4)	1	0.025
O(7)	4 <i>c</i>	0.490(17)	0.534(13)	0.110(4)	1	0.025

*Parameters fixed to define origin.