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**Supporting information for article:**

**New triple molybdate  $\text{Rb}_2\text{AgIn}(\text{MoO}_4)_3$ : synthesis, framework crystal structure and ion-transport behaviour**

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**Table S1.** The calculated and observed values of XRD data for  $\text{Rb}_2\text{AgIn}(\text{MoO}_4)_3$ 

No	$2\theta_{\text{obs}}$ (°)	$d_{\text{obs}}$ (Å)	$I/I_0$	$h$	$k$	$l$	$2\theta_{\text{cal}}$ (°)	$d_{\text{cal}}$ (Å)	$I/I_{\text{ocal}}$	$\Delta 2\theta$
1	10.822	8.17	0.3	0	1	2	10.821	8.17	1	–
2	13.390	6.607	4	1	0	4	13.400	6.602	4	0.001
3	13.661	6.477	7	0	0	6	13.669	6.473	7	0.010
4	17.021	5.205	3	1	1	0	17.041	5.199	3	0.008
5	18.367	4.826	4	1	1	3	18.375	4.824	4	0.020
6	20.215	4.389	1	2	0	2	20.230	4.386	1	0.008
7	20.758	4.276	3	0	1	8	20.770	4.273	2	0.015
8	21.731	4.086	6	0	2	4	21.740	4.085	5	0.012
9	21.901	4.055	1	1	1	6	21.910	4.053	1	0.009
10	24.938	3.568	2	1	0	10	24.948	3.566	1	0.009
11	26.248	3.392	2	2	1	1	26.264	3.390	2	0.010
12	26.598	3.349	1	1	2	2	26.568	3.352	0.5	0.016
13	26.821	3.321	85	1	1	9	26.828	3.320	83	0.030
14	26.985	3.301	5	2	0	8	26.987	3.301	5	0.007
15	27.529	3.237	4	0	0	12	27.537	3.236	3	0.002
16	27.750	3.212	6	2	1	4	27.753	3.212	6	0.008
17	28.608	3.117	1	1	2	5	28.612	3.117	1	0.003
18	29.739	3.002	100	3	0	0	29.740	3.002	100	0.004
19	30.361	2.942	4	0	2	10	30.369	2.941	4	0.001
20	30.790	2.902	1	2	1	7	30.795	2.901	2	0.008
21	32.090	2.787	3	1	2	8	32.091	2.787	2	0.005
22	32.559	2.748	29	1	1	12	32.563	2.748	26	0.001
23	32.860	2.723	5	3	0	6	32.864	2.723	4	0.004
24	35.028	2.560	5	2	1	10	35.027	2.560	4	0.004
25	35.182	2.549	1	2	2	3	35.185	2.549	0.4	–
26	36.004	2.4924	0.1	1	3	1	36.006	2.4923	0.1	0.001
27	36.236	2.4770	1	3	1	2	36.235	2.4770	0.4	0.003
28	36.641	2.4505	4	1	2	11	36.644	2.4503	3	0.002
29	37.795	2.3783	0.2	3	1	5	37.808	2.3776	0.4	–
30	38.821	2.3178	0.3	1	1	15	38.824	2.3176	0.1	0.001
31	39.540	2.2773	0.2	1	3	7	39.539	2.2773	0.2	0.003
32	40.477	2.2267	14	2	2	9	40.478	2.2266	13	0.013
33	40.972	2.2009	14	3	0	12	40.975	2.2008	12	0.003
34	41.129	2.1929	0.4	4	0	4	41.127	2.1930	0.2	–
35	41.831	2.1577	6	0	0	18	41.833	2.1576	5	0.001
36	41.991	2.1499	1	1	2	14	41.982	2.1503	0.5	0.001
37	42.266	2.1365	1	0	2	16	42.264	2.1366	1	0.003
38	43.022	2.1007	0.4	1	3	10	43.024	2.1006	0.3	–
39	43.857	2.0626	1	3	2	1	43.851	2.0629	1	0.002
40	44.039	2.0545	0.2	2	3	2	44.046	2.0542	0.3	0.002
41	44.408	2.0383	0.3	3	1	11	44.394	2.0389	0.1	–
42	44.674	2.0268	16	2	2	12	44.677	2.0267	15	0.009
43	44.820	2.0205	3	3	2	4	44.818	2.0206	2	–
44	45.389	1.9965	1	2	3	5	45.391	1.9964	1	0.002
45	45.478	1.9928	10	1	1	18	45.478	1.9928	8	0.002
46	45.876	1.9764	1	2	1	16	45.881	1.9762	1	–
47	46.164	1.9648	3	4	1	0	46.159	1.9650	2	0.006
48	46.719	1.9427	1	4	1	3	46.719	1.9427	1	0.007



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