

Table S2. Powder data (d in Å) for jasonsmithite. Only normalized $I_{\text{calc}} \geq 2$ are listed.

I_{obs}	d_{obs}	d_{calc}	I_{calc}	hkl
43	10.98	11.0170	42	0 1 1
100	10.08	10.0409	100	0 0 2
18	7.95	7.9865	11	0 1 2
7	6.98	7.0125	2	-1 0 2
		6.4753	3	1 1 1
15	6.19	6.1905	8	-1 1 2
		6.0567	2	1 0 2
13	5.50	5.5032	10	1 1 2
		5.2156	1	-1 1 3
		5.2047	2	1 2 0
9	5.01	5.0204	4	0 0 4
		4.9310	2	1 2 1
		4.8017	1	-1 2 2
8	4.69	4.6956	2	0 2 3
		4.6310	1	-1 0 4
		4.6054	1	1 1 3
		4.4589	1	1 2 2
		4.3690	1	-1 1 4
		4.1341	2	-2 0 2
19	4.074	4.0663	8	1 0 4
7	3.965	4.0398	4	2 1 0
		4.0242	3	0 3 2
		3.9397	1	1 2 3
		3.8790	1	-1 3 1
10	3.757	3.7887	4	-1 2 4
		3.7817	1	1 3 1
		3.7175	4	2 0 2
		3.5905	1	-2 2 1
		3.5557	1	1 3 2
17	3.490	3.5063	6	-2 0 4
		3.5018	1	-2 2 2
		3.4745	4	-1 3 3
		3.4603	2	1 2 4
		3.4402	1	2 2 1
		3.4294	1	0 2 5
12	3.325	3.3287	7	-1 2 5
		3.3057	3	0 3 4
		3.2834	2	-1 0 6
12	3.253	3.2620	1	2 1 3
		3.2508	6	0 4 1
		3.2377	1	2 2 2
		3.1869	2	-1 3 4
		3.0721	2	-2 1 5
		3.0521	3	2 3 0
		3.0491	2	1 2 5
30	3.029	3.0283	15	2 0 4
		3.0104	3	-2 3 2
		2.9840	1	0 2 6
		2.9710	3	2 3 1
17	2.944	2.9557	2	0 4 3
		2.9387	9	-1 2 6
		2.8983	1	-1 3 5

I_{obs}	d_{obs}	d_{calc}	I_{calc}	hkl
		2.8955	4	-2 3 3
18	2.846	2.8486	4	-2 2 5
		2.8397	5	-2 0 6
		2.8376	6	2 3 2
		2.8347	1	-3 0 2
		2.7760	1	-2 1 6
		2.7713	1	-3 1 2
6	2.748	2.7516	2	2 2 4
		2.7402	4	-2 3 4
		2.7365	1	1 4 3
		2.7059	1	1 2 6
29	2.605	2.6240	4	-3 2 1
		2.6144	3	-1 2 7
		2.6110	13	-2 4 1
		2.6039	2	-3 2 2
		2.5998	4	3 2 0
		2.5736	1	3 1 2
24	2.543	2.5515	1	2 4 1
		2.5491	2	0 5 2
		2.5471	12	0 4 5
		2.5426	1	-3 2 3
		2.5349	2	3 2 1
		2.5115	1	-2 1 7
6	2.467	2.5032	3	-2 4 3
		2.4932	1	2 3 4
		2.4657	1	-1 1 8
		2.4577	2	2 0 6
		2.4522	1	0 5 3
		2.4160	1	2 1 6
		2.3971	1	-3 3 1
		2.3818	1	-3 3 2
		2.3791	1	1 4 5
		2.3546	1	2 4 3
7	2.323	2.3334	1	0 5 4
		2.3155	3	-2 0 8
		2.3027	1	2 2 6
		2.2805	2	-2 1 8
		2.2389	1	2 5 0
3	2.202	2.2063	1	2 5 1
		2.2030	1	-3 2 6
11	2.159	2.1679	1	-3 3 5
		2.1634	3	0 4 7
		2.1546	2	-1 4 7
		2.1526	1	-3 1 7
		2.1411	3	-4 0 2
		2.1262	1	1 6 0
		2.1226	1	-1 6 1
9	2.109	2.1158	1	-4 1 1
		2.1134	1	0 2 9
		2.1062	2	1 6 1
		2.0990	3	2 4 5

I_{obs}	d_{obs}	d_{calc}	I_{calc}	hkl
7	2.066	2.0706	3	0 5 6
		2.0589	2	3 2 5
		2.0363	1	-4 2 2
		2.0325	1	-3 0 8
9	2.012	2.0206	2	-2 4 7
		2.0121	1	0 6 4
		2.0088	1	-3 1 8
		2.0071	1	-2 2 9
		1.9956	2	3 1 6
		1.9893	1	0 3 9
		1.9805	1	3 4 3
		1.9541	1	-3 3 7
6	1.939	1.9437	1	3 3 5
		1.9422	2	-3 2 8
		1.9303	2	3 2 6
		1.9085	1	-1 6 5
		1.8927	1	1 0 10
		1.8826	1	1 3 9
		1.8742	1	0 7 1
11	1.851	1.8612	1	-2 6 4
		1.8522	1	1 5 7
		1.8509	1	-2 2 10
		1.8474	5	0 4 9
		1.8461	1	2 4 7
		1.8329	1	4 3 2
7	1.819	1.8263	1	0 3 10
		1.8191	3	-3 4 7
		1.8176	1	0 5 8
		1.8110	1	-3 5 5
		1.8083	1	3 2 7
		1.7976	1	1 7 2
3	1.767	1.7751	1	-2 4 9
		1.7729	1	-4 2 7
		1.7610	2	1 4 9
4	1.735	1.7439	1	0 6 7
		1.7420	1	-3 6 1
		1.7397	1	1 5 8
		1.7349	1	3 6 0
4	1.707	1.7176	1	-3 6 3
		1.7152	1	3 6 1
		1.7118	1	4 3 4
		1.7050	1	-3 2 10
		1.7019	1	2 5 7
		1.6912	1	-2 7 3
		1.6899	1	-1 0 12
6	1.677	1.6837	1	5 1 0
		1.6760	1	1 2 11
		1.6729	3	4 4 3
		1.6606	1	-5 2 2