

Supporting Information

Supporting information (Φ): XRD data for both flower shape and hollow sphere CuO.

2θ	d_{hkl}	h	k	l	I_{obs}/I_0	2θ	d_{hkl}	h	k	l	I_{obs}/I_0
Flower shape CuO						Hollow sphere CuO					
32.506	2.7522	1	1	0	12.489	32.583	2.7460	1	1	0	4.333
35.265	2.5430	0	0	2	23.616	35.456	2.5297	0	0	2	30.455
35.517	2.5255	-1	1	1	69.573	35.625	2.5181	-1	1	1	64.772
38.651	2.3277	1	1	1	100	38.77	2.3208	1	1	1	100
39.027	2.3061	2	0	0	12.561	39.025	2.3062	2	0	0	17.363
46.148	1.9655	-1	1	2	3.900	46.342	1.9577	-1	1	2	2.104
48.754	1.8663	-2	0	2	29.911	48.869	1.8622	-2	0	2	36.421
51.182	1.7833	1	1	2	3.226	51.392	1.776547	1	1	2	2.763
53.382	1.7149	0	2	0	11.658	53.587	1.7088	0	2	0	15.761
56.592	1.6250	0	2	1	2.294	56.823	1.6190	0	2	1	0.690
58.171	1.5846	2	0	2	13.464	58.327	1.5807	2	0	2	21.476
61.32	1.5106	-1	1	3	17.236	61.632	1.5037	-1	1	3	27.755

65.608	1.4218	0	2	2	11.887	65.911	1.4160	0	2	2	20.785
66.383	1.4071	-3	1	1	12.332	66.437	1.4061	-3	1	1	17.614
67.606	1.3846	1	1	3	5.678	67.939	1.3786	1	1	3	15.667
68.079	1.3761	2	2	0	10.267	68.256	1.3730	2	2	0	8.697
74.575	1.2715	0	0	4	1.606	75.035	1.2649	0	0	4	3.987