

**Figure S1. The Sol-Gel effect of CA/ ATP composite**

Sample	CaCl <sub>2</sub> (wt%)	ATP (g)	CA(g)	Sol-Gel
1	0	0.5	0	Slo
2	1%	0.3	0.5	Sol
3	2%	0.5	1	Sol
4	3%	0.5	1.5	Weak gel
5	3%	0.5	2	Gel
6	4%	0.5	2	Gel
7	4%	1	2.5	Gel
8	4%	2	2.5	Weak gel

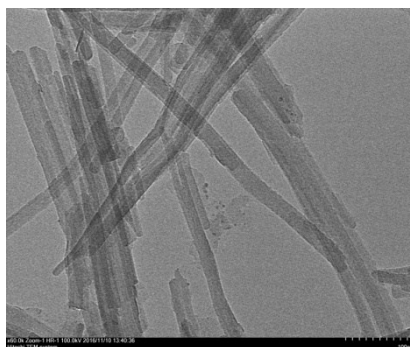


Figure S2. TEM of ATP