

**Table S1.** Fitting parameters of Raman spectra for TiC/CNF-9 in the different carbonization temperatures.

Carbonation temperature (°C)	D Band		G Band		(I <sub>D</sub> /I <sub>G</sub> )
	Peak position (cm <sup>-1</sup> )	Full width at half maximum (cm <sup>-1</sup> )	Peak position (cm <sup>-1</sup> )	Full width at half maximum (cm <sup>-1</sup> )	Two peak area ration
800	1367.35	310.53	1587.04	111.18	3.31
900	1380.85	292.68	1588.12	112.25	2.88
1000	1370.76	276.38	1584.64	116.96	2.59
1100	1368.49	229.51	1582.12	116.52	1.73