

Supporting Information

TEM image of Mesoporous Carbon (MC), with R/F127 = 200, show hexagonally arranged open pore structure (diameter = 7 nm). Raman spectroscopy observations for both R/F127 = 200 and 50 and also R/F = 50 with different polymerization time i.e. 6 and 12 hours show nearly same G/D ratio, concluding that even if surface morphology changes with respect to the parameters, quality of the sample remains same. Details of the textural properties, calculated from nitrogen adsorption/desorption measurements, are in Table 1.

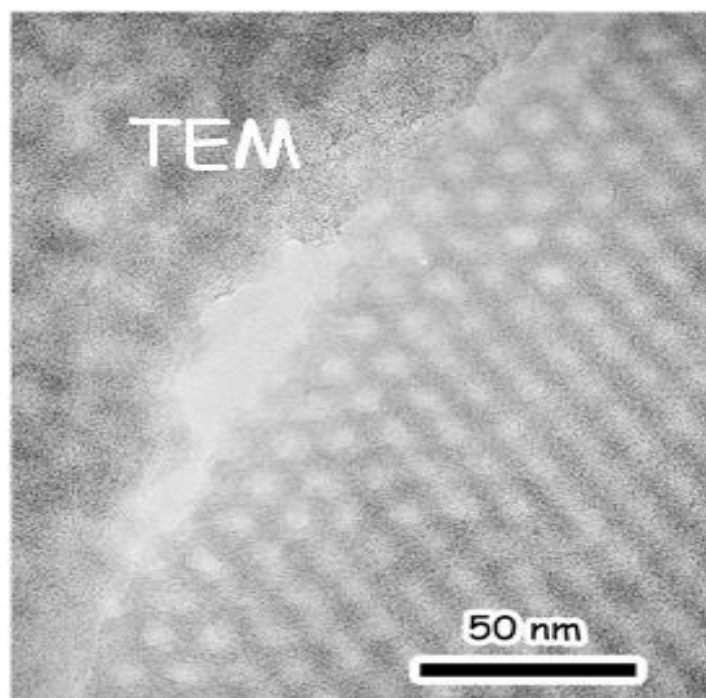


Fig S1 – TEM image of the mesoporous carbon with R/F = 200

(also see in Hayashi A., Notsu H, Kimijima K, Miyamoto J, Yagi I, *Electrochimica Acta* , **2008**, 53, 6117.)

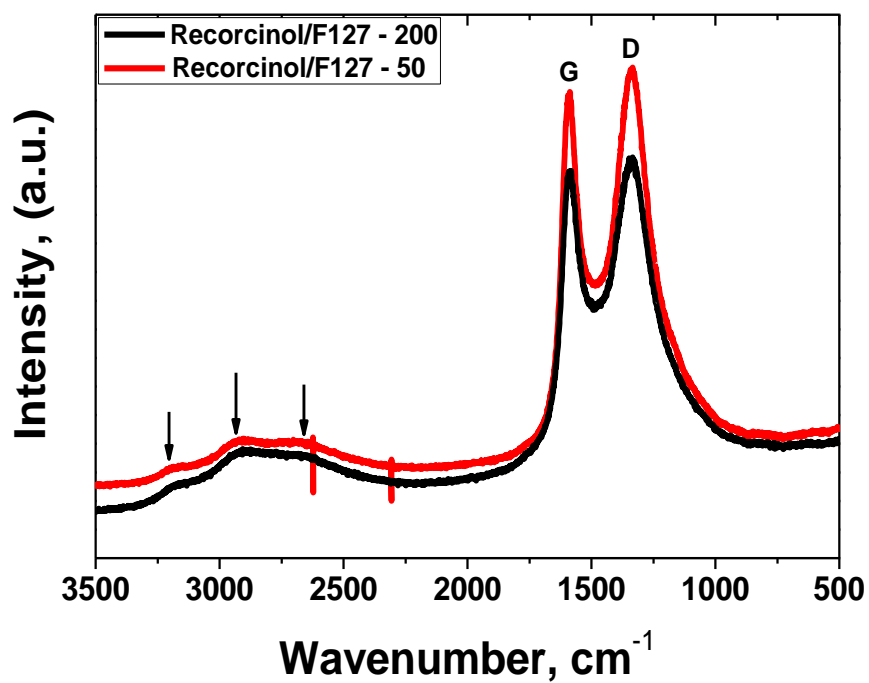


Fig S2 – Raman Spectra of the mesoporous carbon synthesized at molar ratio of R/F127 = 200 and R/F127= 50

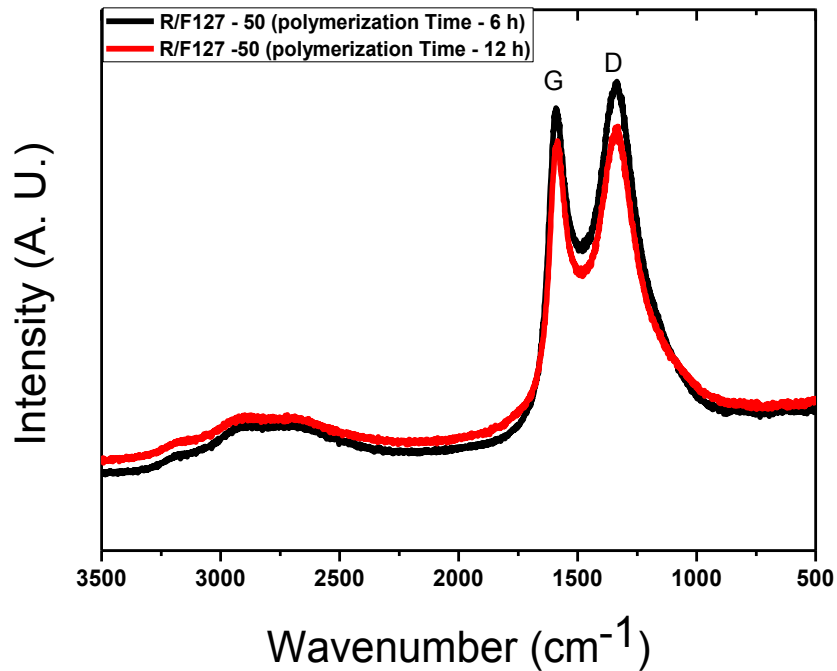


Fig S2 – Raman Spectra of the mesoporous carbon synthesized at molar ratio of R/F127 = 50 at different polymerization time 6 and 12 hours.

Sr. No	Sample Name	A_{BET} (m²/g) [Surface Area]	d_{p (ads)} (nm) [Pore Diameter]	V_p (cm³/g) [Pore volume]
1.	MC-1, with R/F127 = 200	600	7	0.3931
2.	MC-2, with R/F127 = 50 and 6 hour polymerization time	454	9	0.5945
3.	MC-3, with R/F127 = 50 and 12 hour polymerization time	420	12.5	0.6549

Table 1 – Textural properties of Mesoporous carbon