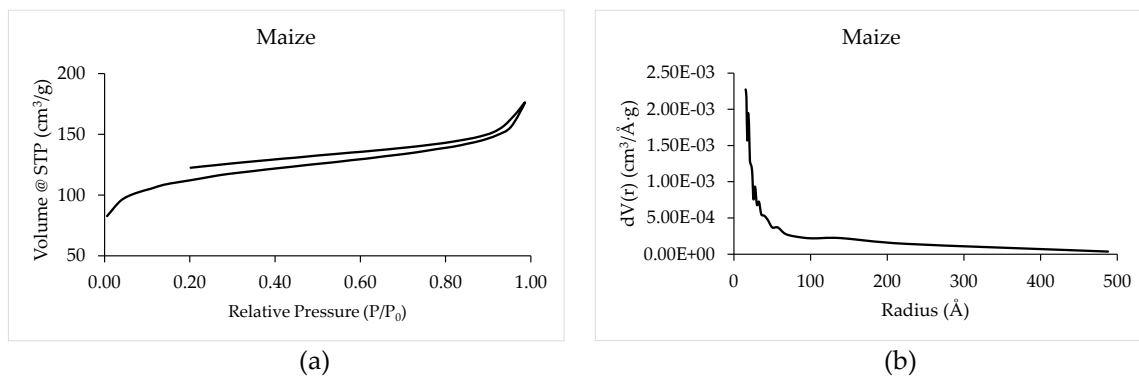
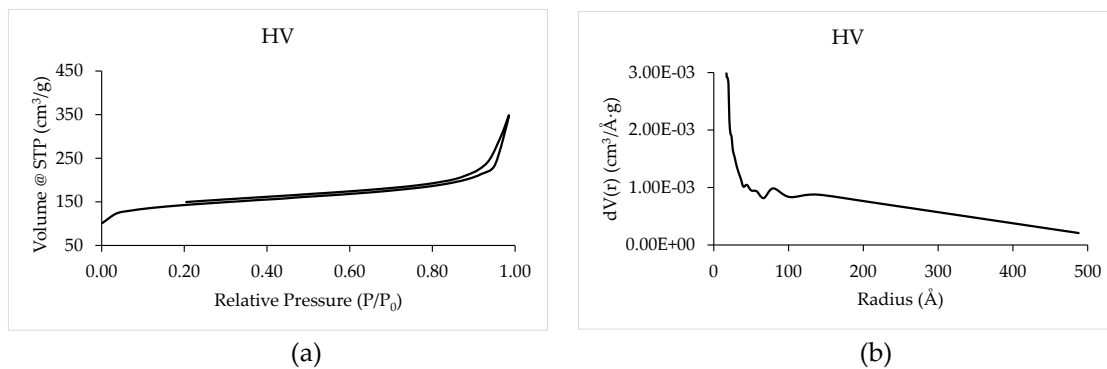


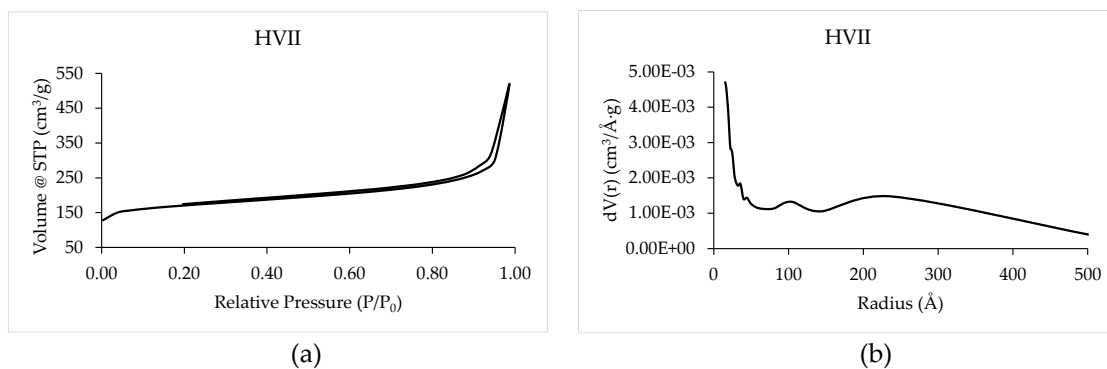
Supplementary Information



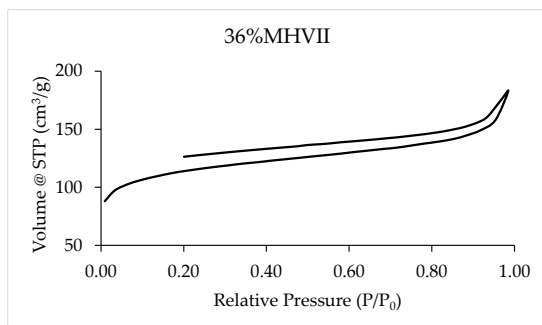
**Figure S1.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of Maize.



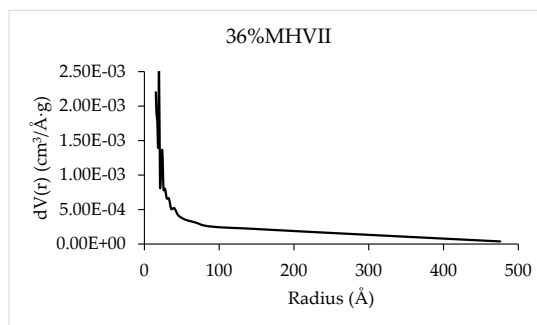
**Figure S2.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of HV.



**Figure S3.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of HVII.

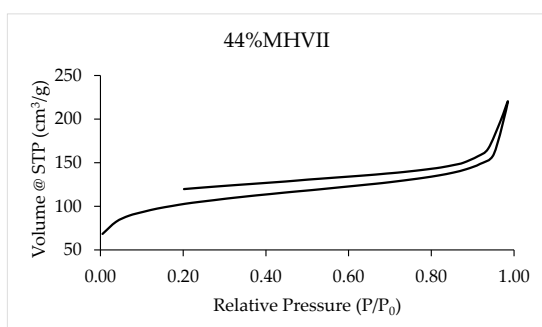


(a)

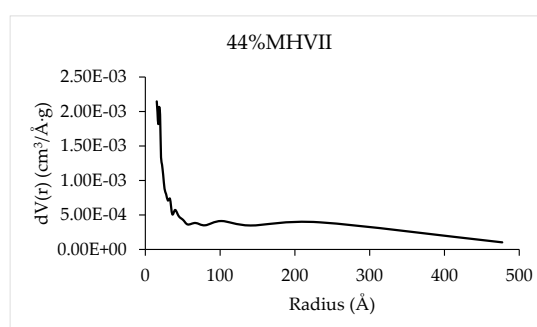


(b)

**Figure S4.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 36%MHVII.

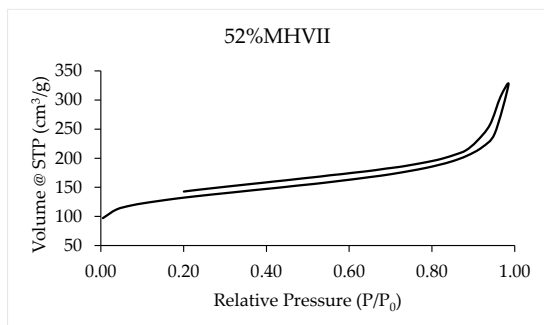


(a)

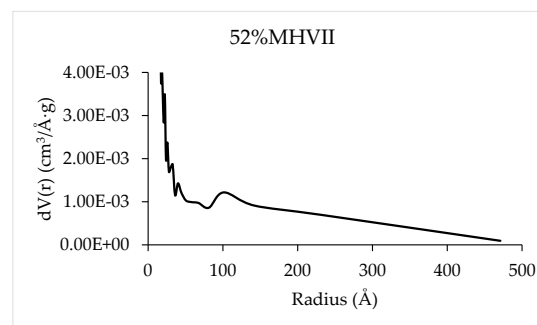


(b)

**Figure S5.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 44%MHVII.

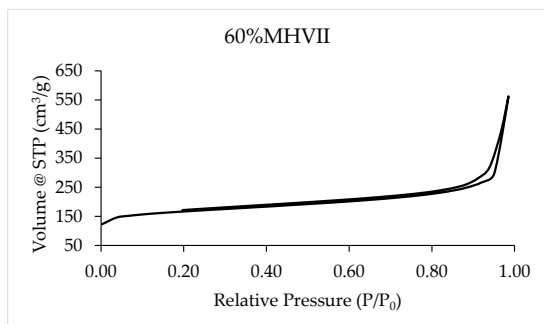


(a)

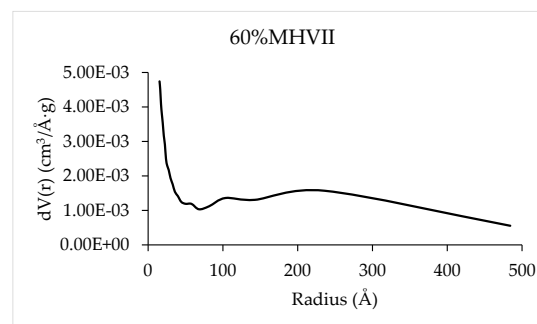


(b)

**Figure S6.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 52%MHVII.

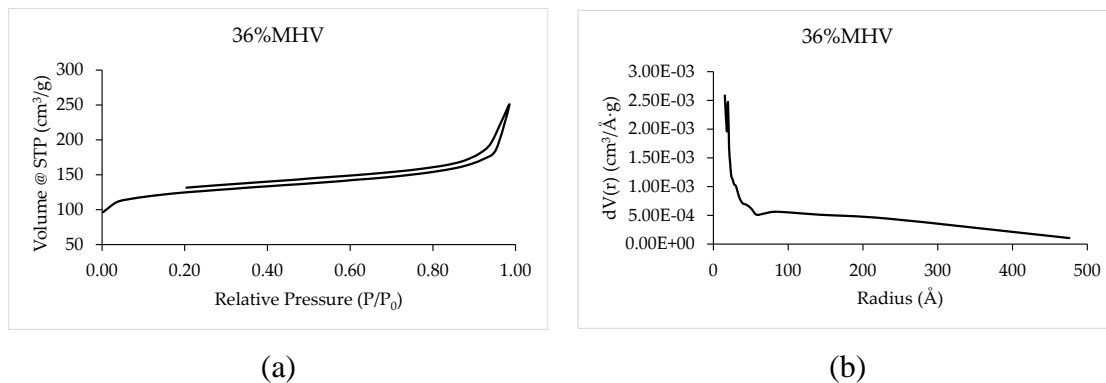


(a)

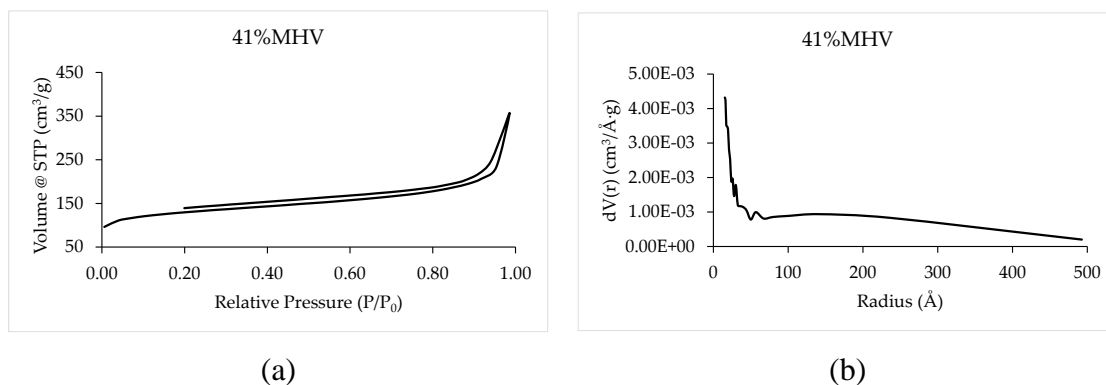


(b)

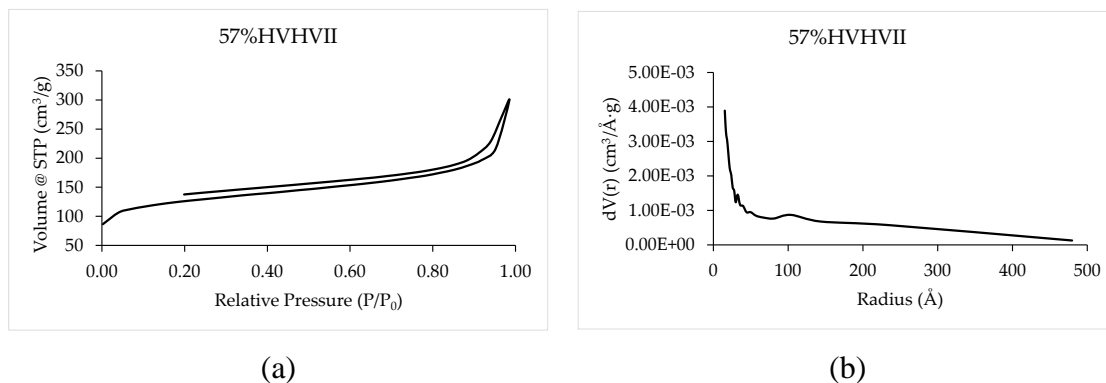
**Figure S7.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII.



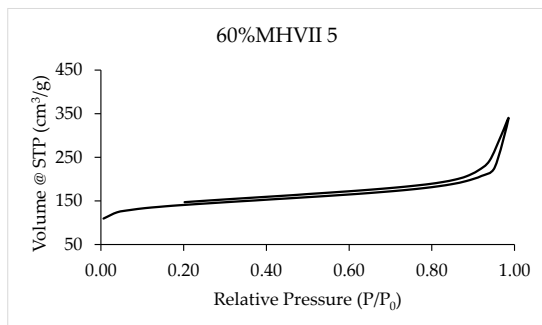
**Figure S8.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 36%MHV.



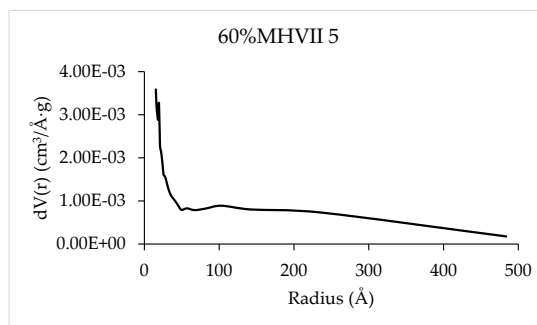
**Figure S9.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 41%MHV.



**Figure S10.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 57%HVHVII.

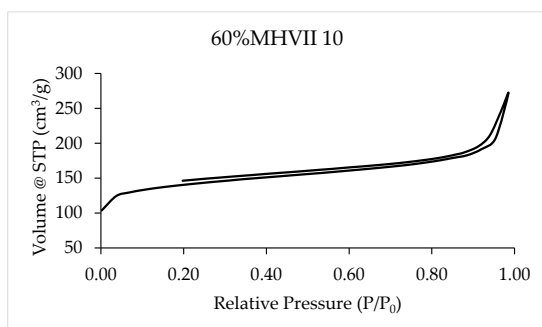


(a)

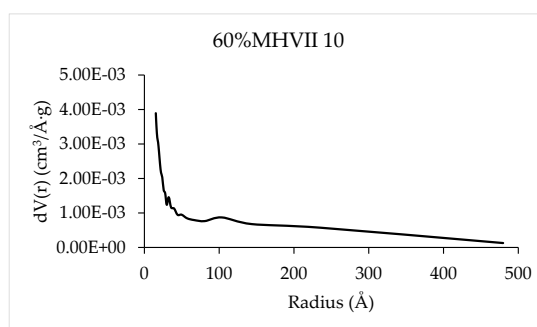


(b)

**Figure S11.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII 5.

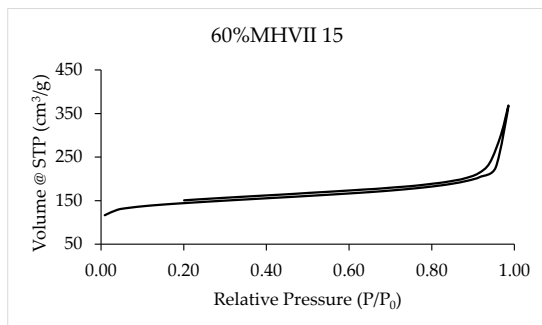


(a)

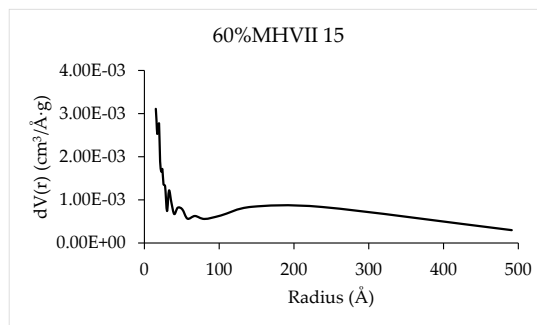


(b)

**Figure S12.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII 10.

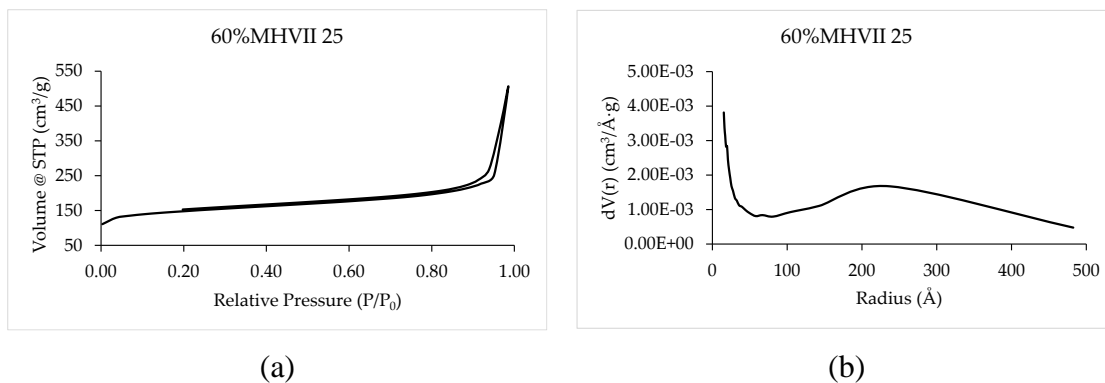


(a)

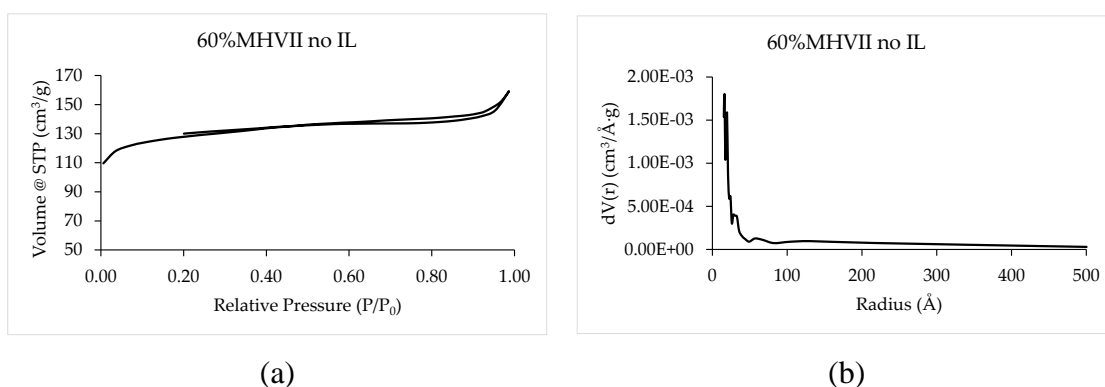


(b)

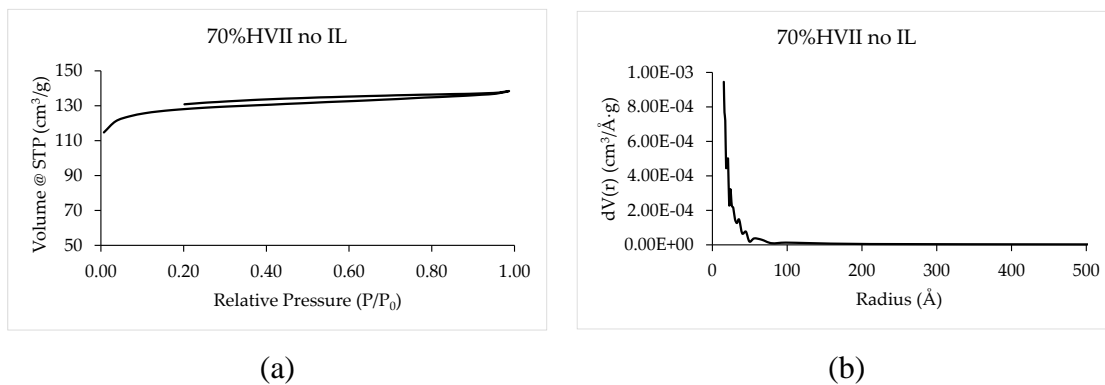
**Figure S13.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII 15.



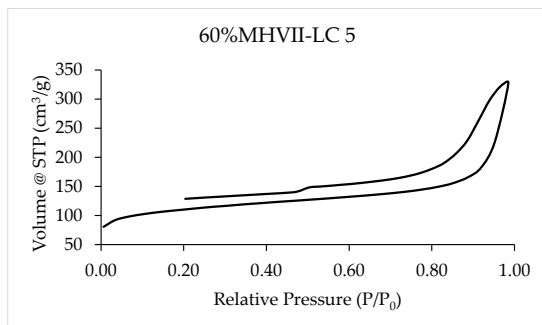
**Figure S14.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII 25.



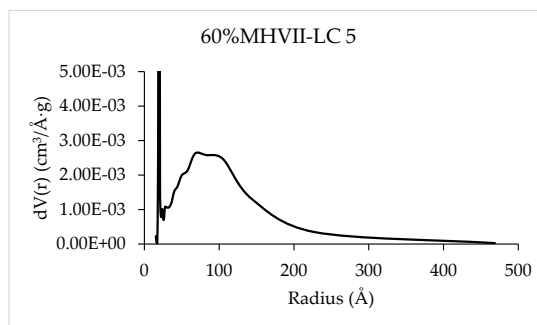
**Figure S15.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII no IL.



**Figure S16.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 70%HVII no IL.

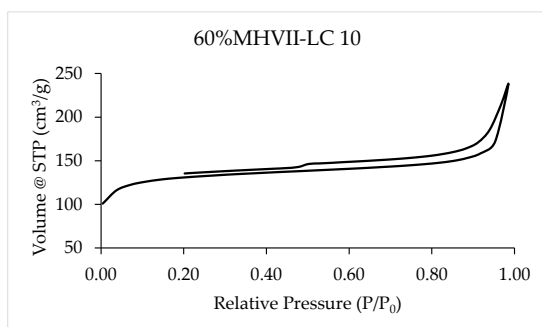


(a)

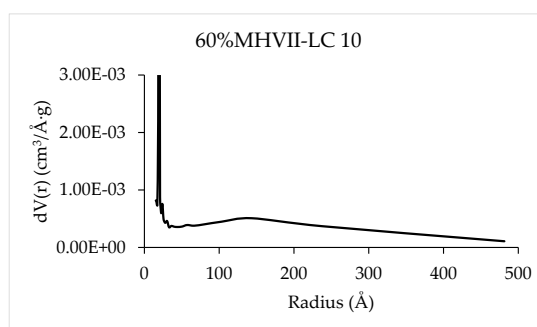


(b)

**Figure S17.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-LC 5.

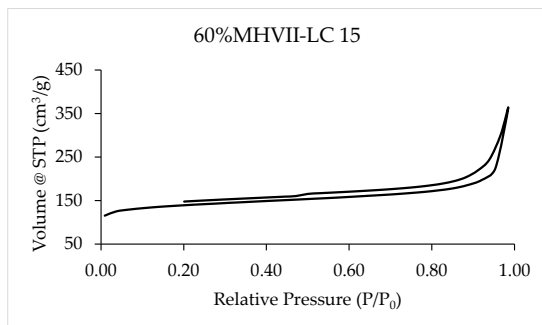


(a)

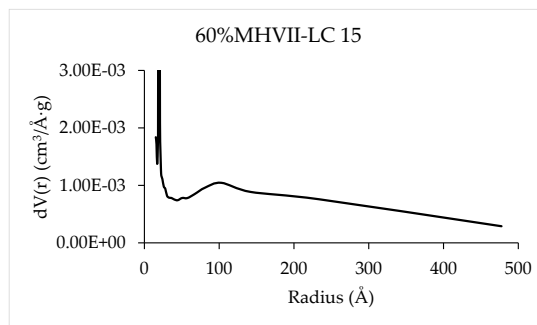


(b)

**Figure S18.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-LC 10.

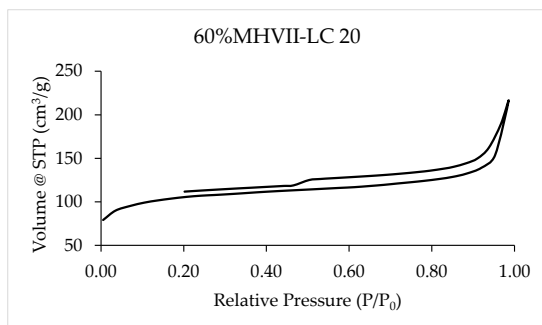


(a)

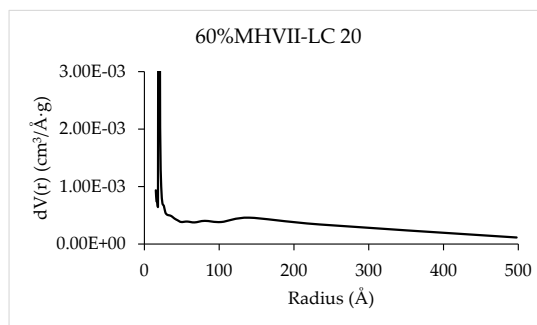


(b)

**Figure S19.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-LC 15.

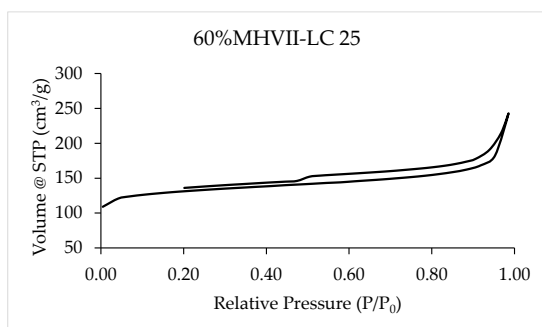


(a)

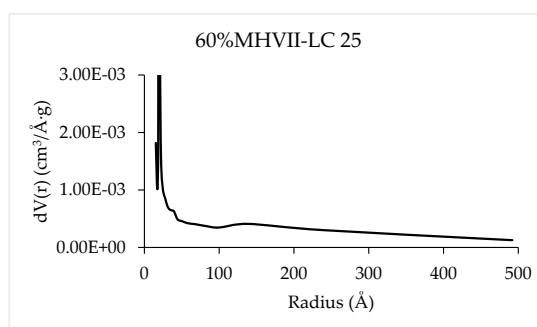


(b)

**Figure S20.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-LC 20.

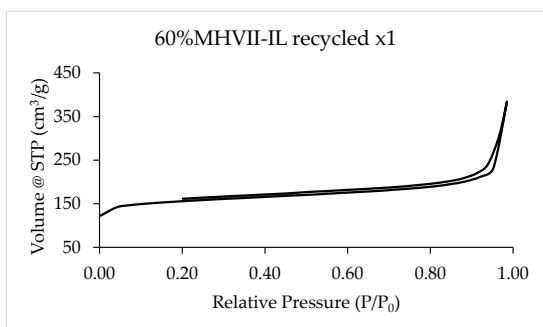


(a)

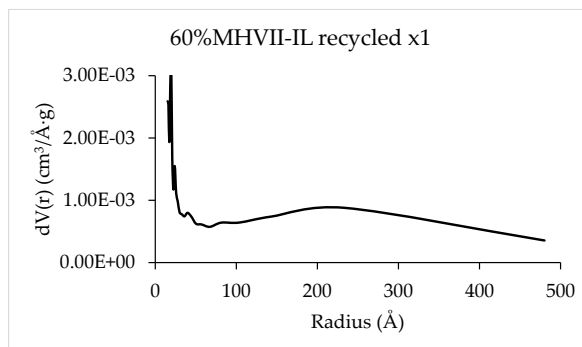


(b)

**Figure S21.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-LC 25.

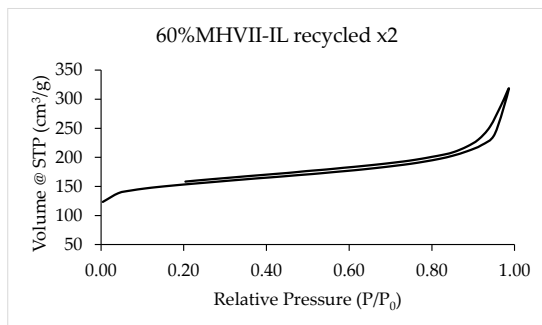


(a)

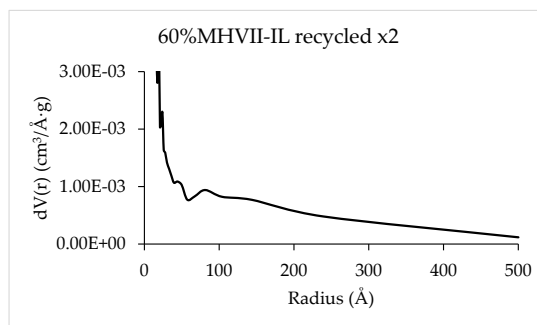


(b)

**Figure S22.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-IL recycled x1.

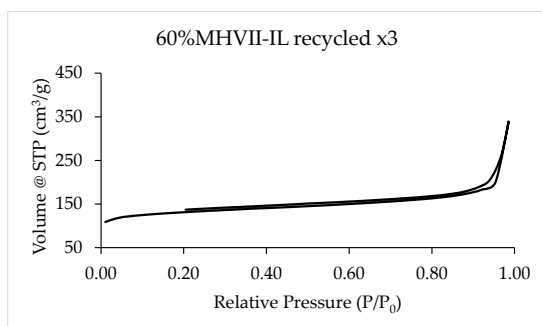


(a)

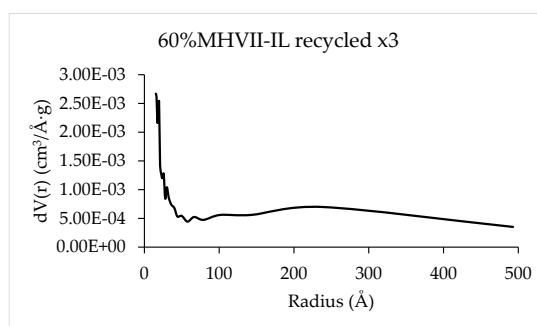


(b)

**Figure S23.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-IL recycled x2.

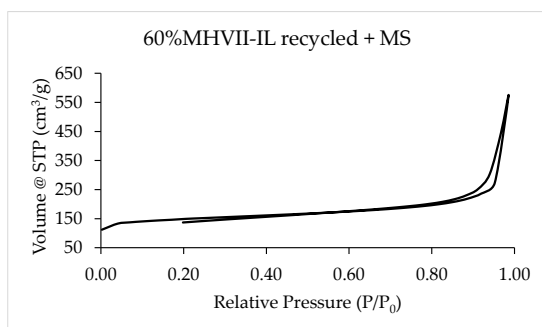


(a)

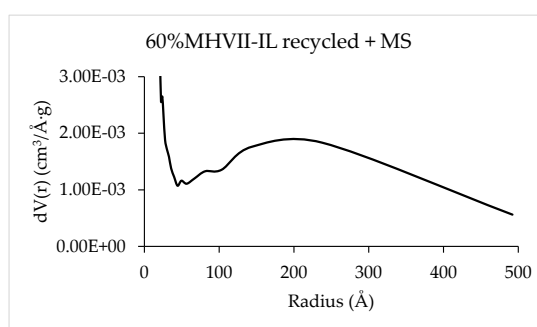


(b)

**Figure S24.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-IL recycled x3.



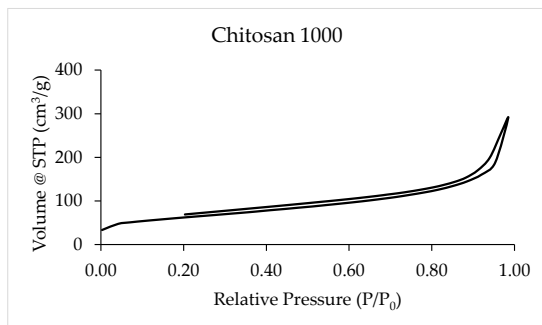
(a)



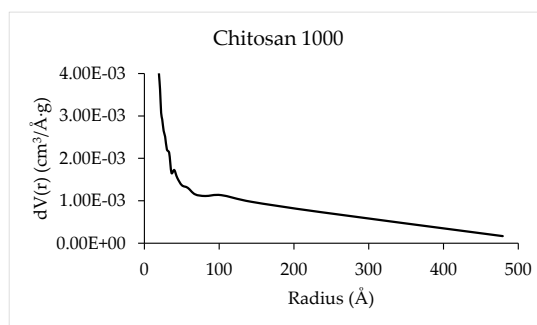
(b)

**Figure S25.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII-IL recycled + MS.



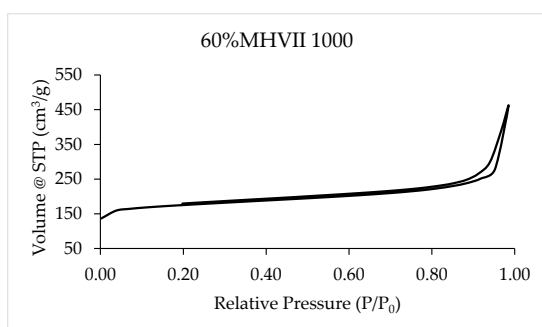


(a)

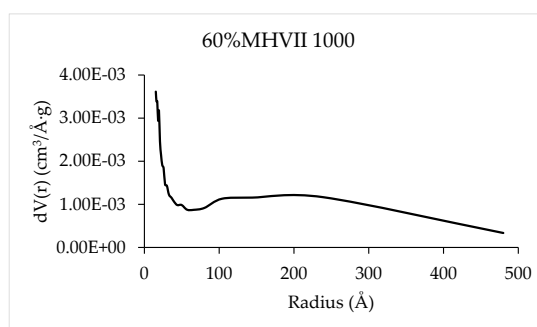


(b)

**Figure S26.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of Chitosan 1000.

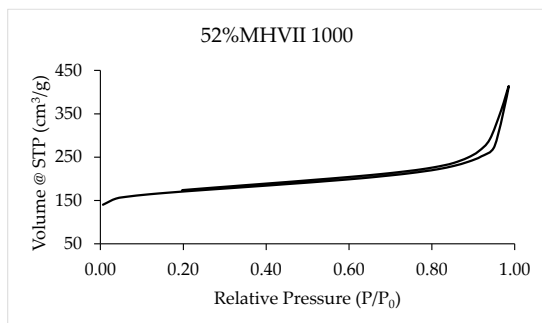


(a)

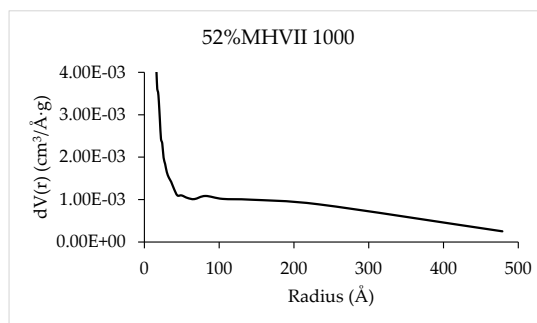


(b)

**Figure S27.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 60%MHVII 1000.

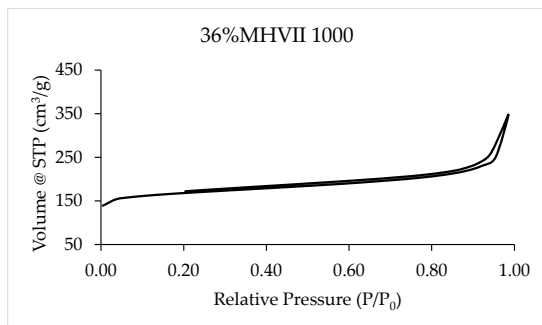


(a)

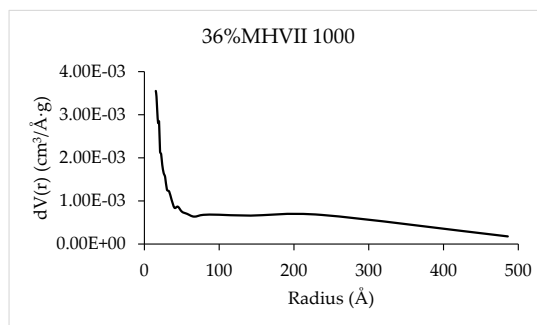


(b)

**Figure S28.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 52%MHVII 1000.

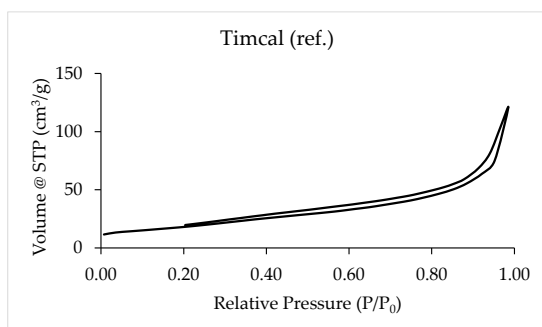


(a)

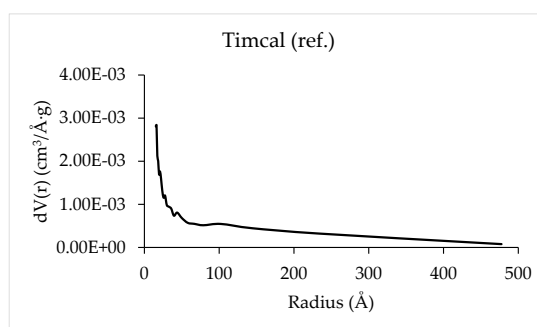


(b)

**Figure S29.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 36%MHVII 1000.

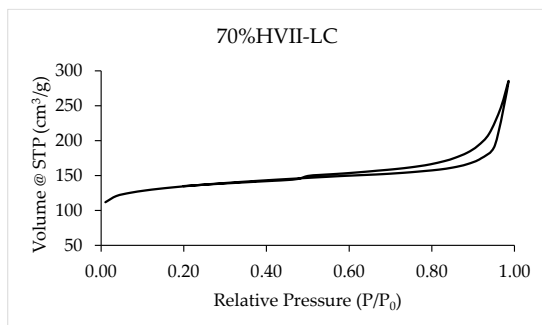


(a)

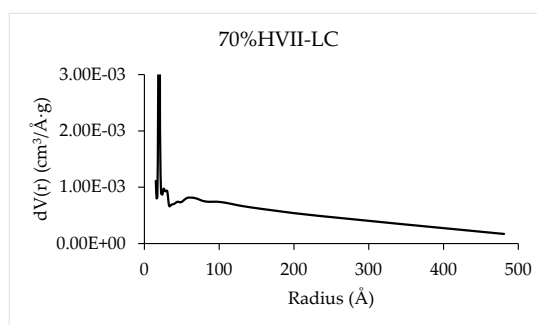


(b)

**Figure S30.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of Timcal (ref.).



(a)



(b)

**Figure S31.** Nitrogen sorption isotherm (a) and BJH pore size distribution (b) of 70%HVII-LC.