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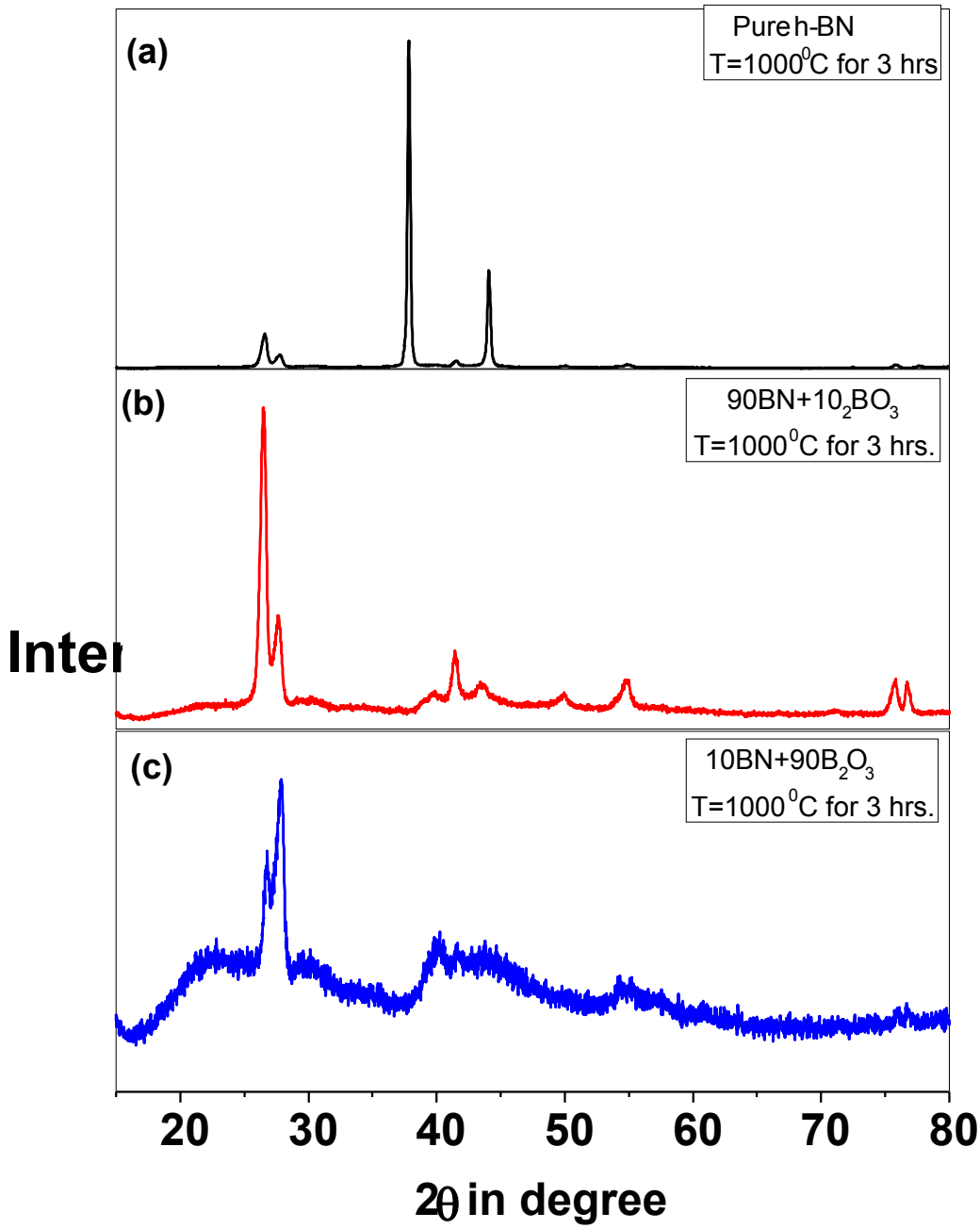

Figure S1:XRD patterns of the different samples (a) Pure h-BN sintered at 1000^{0}C for 3 hrs (b) 90BN-10B_2O_3, and (c)10 BN-90B_2O_3

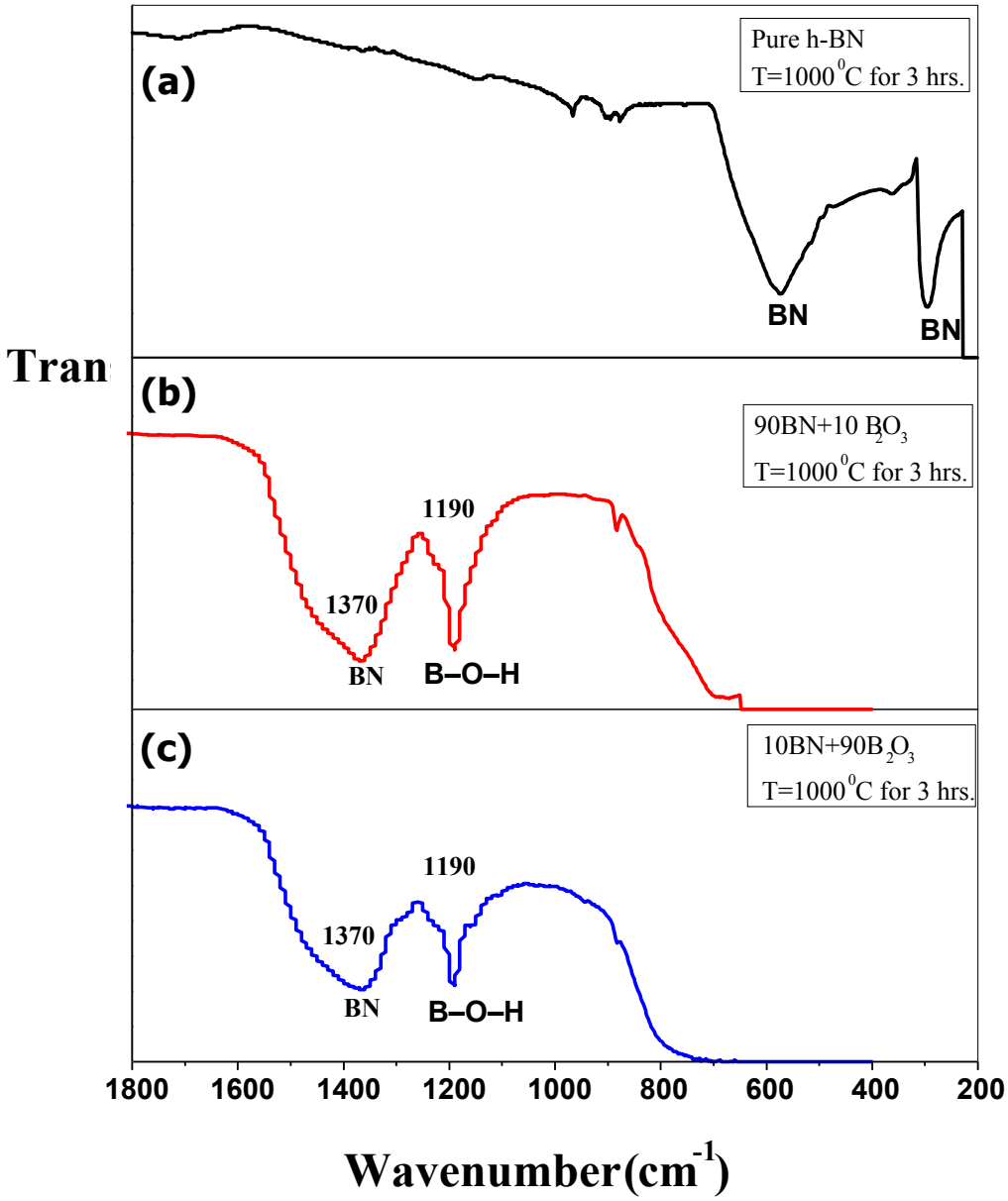

Figure S2: FTIR pattern of the samples (a) Pure h- BN sintered at 1000^0C for 3 hrs (b) 90BN-10B_2O_3 , and (c) 10BN-90B_2O_3

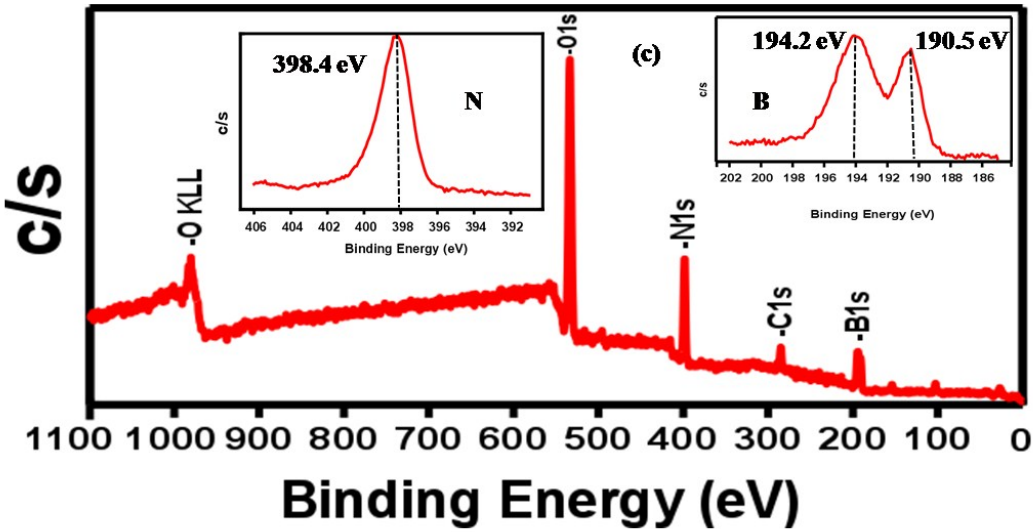

Figure S3: The XPS spectra of porous *h*-BN showing two separate peaks of B and N

along with trace amount of the peaks of C and O

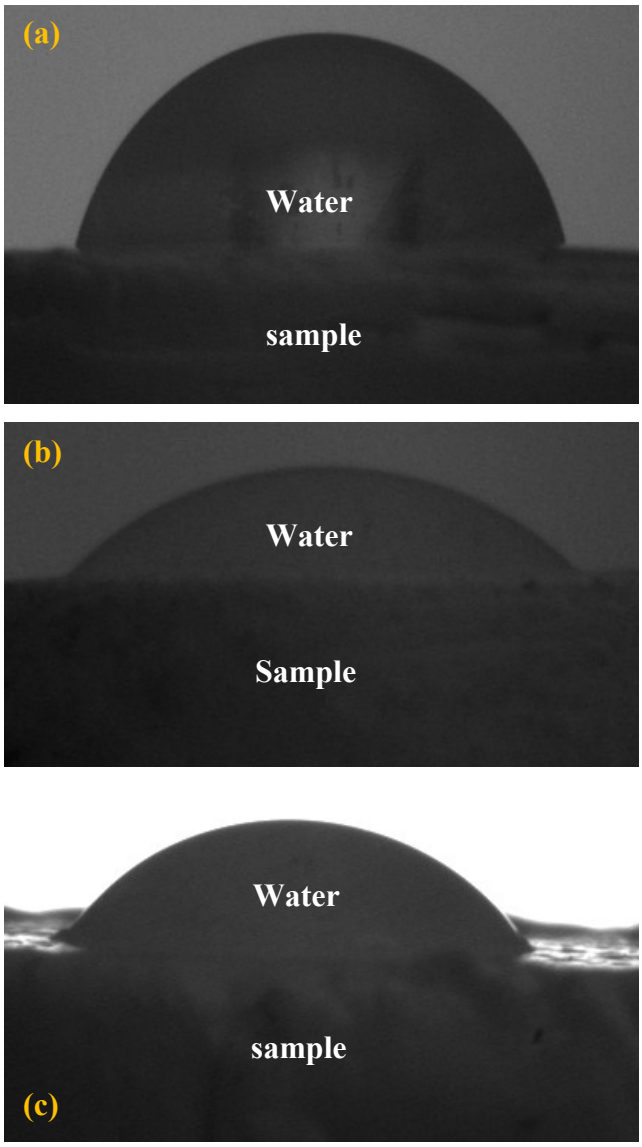

Figure S4**:** Digital images of contact angles measurements with DI water of the samples (a) Pure h-BN (b) 90BN-10B_2O_3 and (c) 50BN-50B_2O_3.