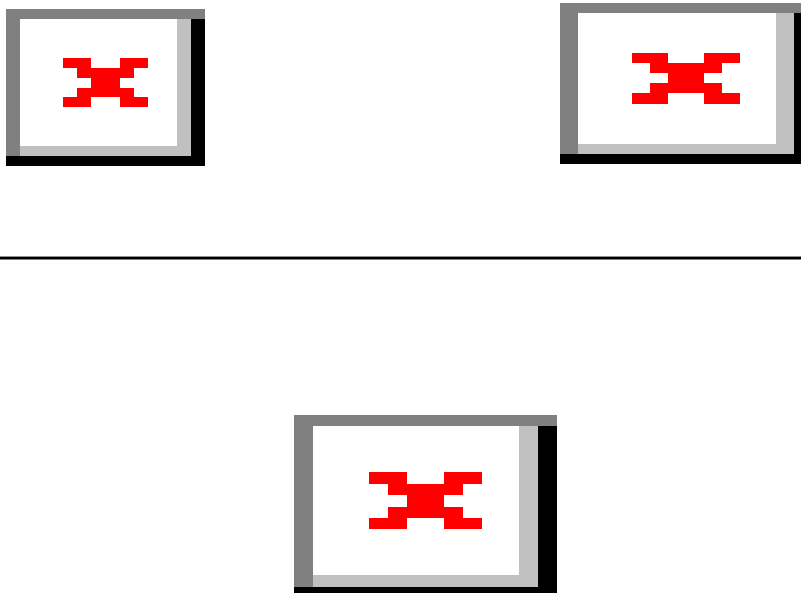
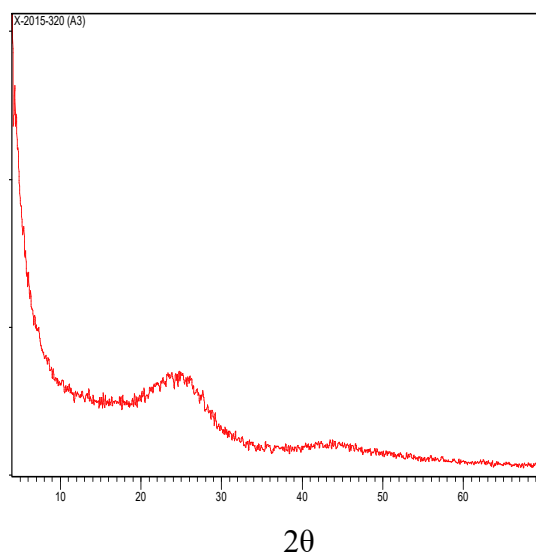


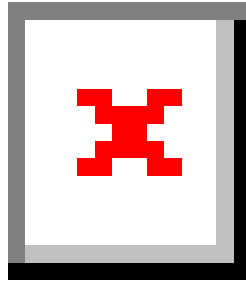
**Supporting Information**



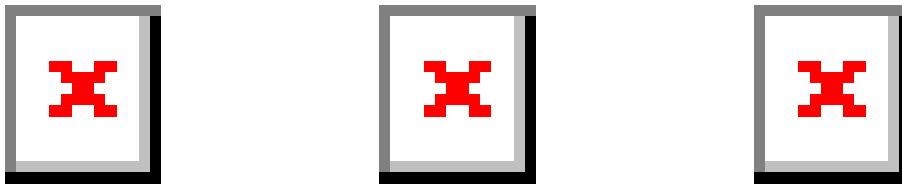
*Figure S1. Membrane reactor and hydrogen separation system .*



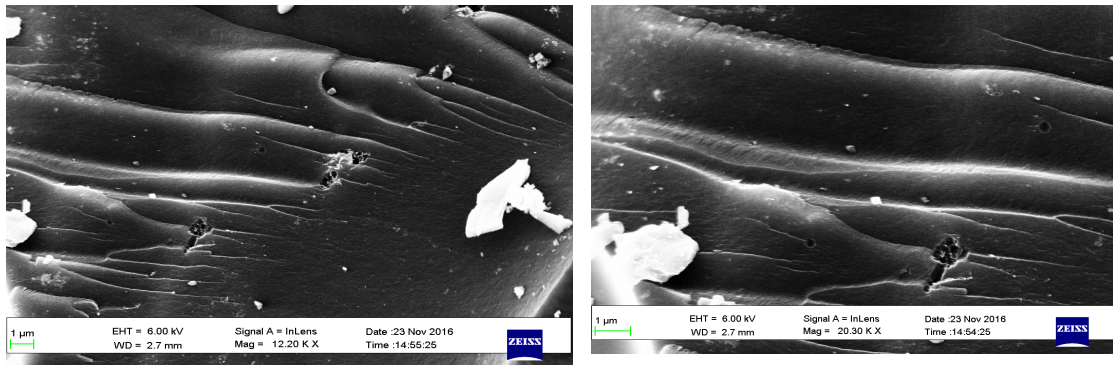
*Figure S2. XRD pattern of activated carbon.*



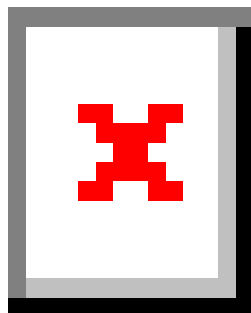
*Figure S3. FT-IR Spectrum of the raw activated carbon*



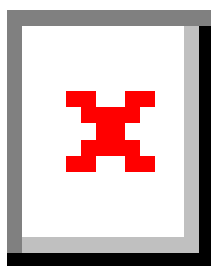
*Figure S4. TEM micrographs of the freshly made activated carbon*



*Figure S5. Surface morphology of the as-prepared activated carbon*



*Figure S6. TGA profile of the freshly mad activated carbon*



*Figure S7. Raman spectroscopy of the as-prepared activated carbon*