Supplementary Information

Hydrothermal Modification of Activated Carbon Enhances Acetaminophen Adsorption: Experimental and Computational Evidence of π–π Interaction Dominance

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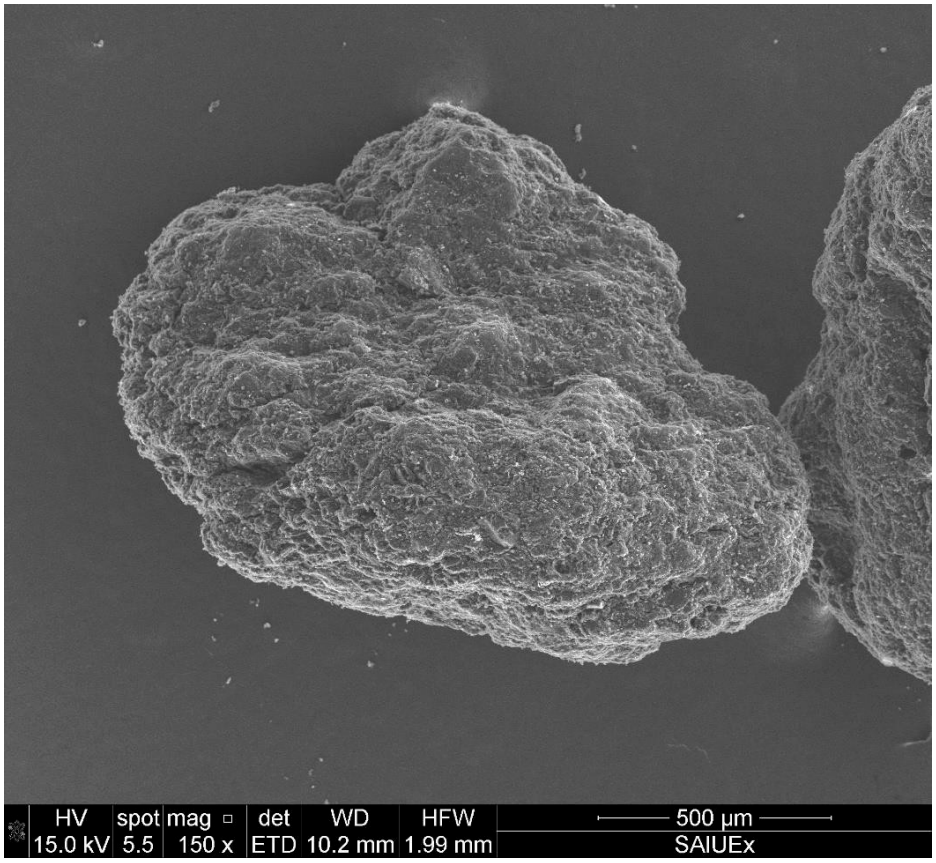
Scanning Electron Microscopy



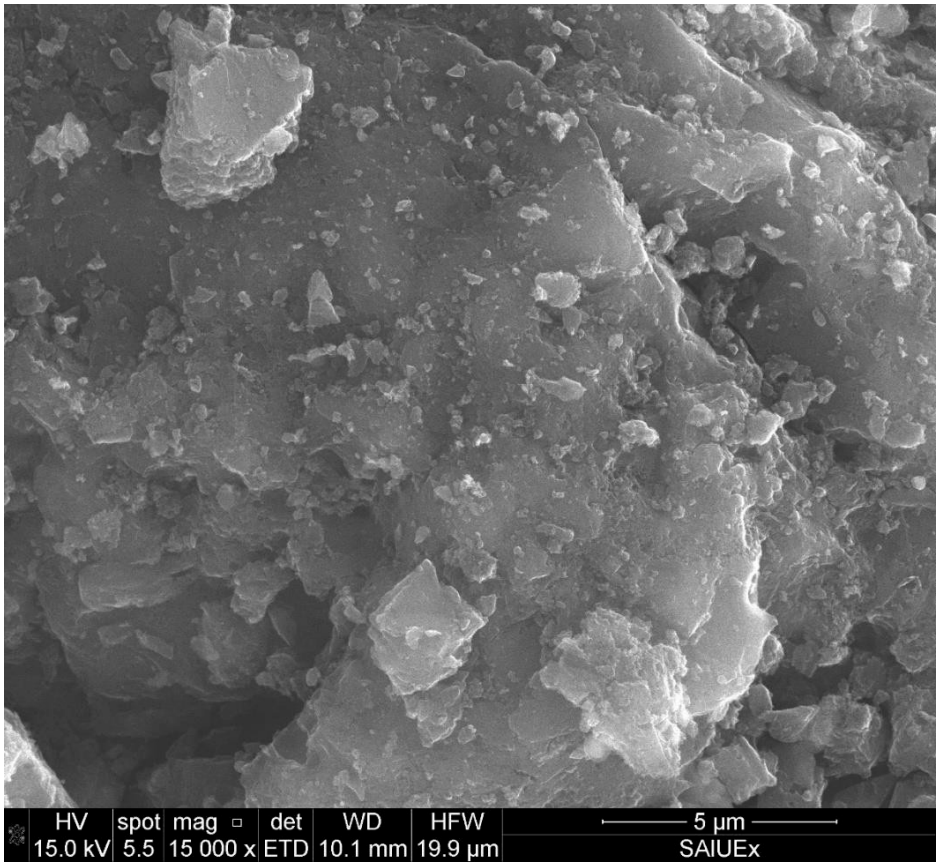


Figure S1. SEM images of M.

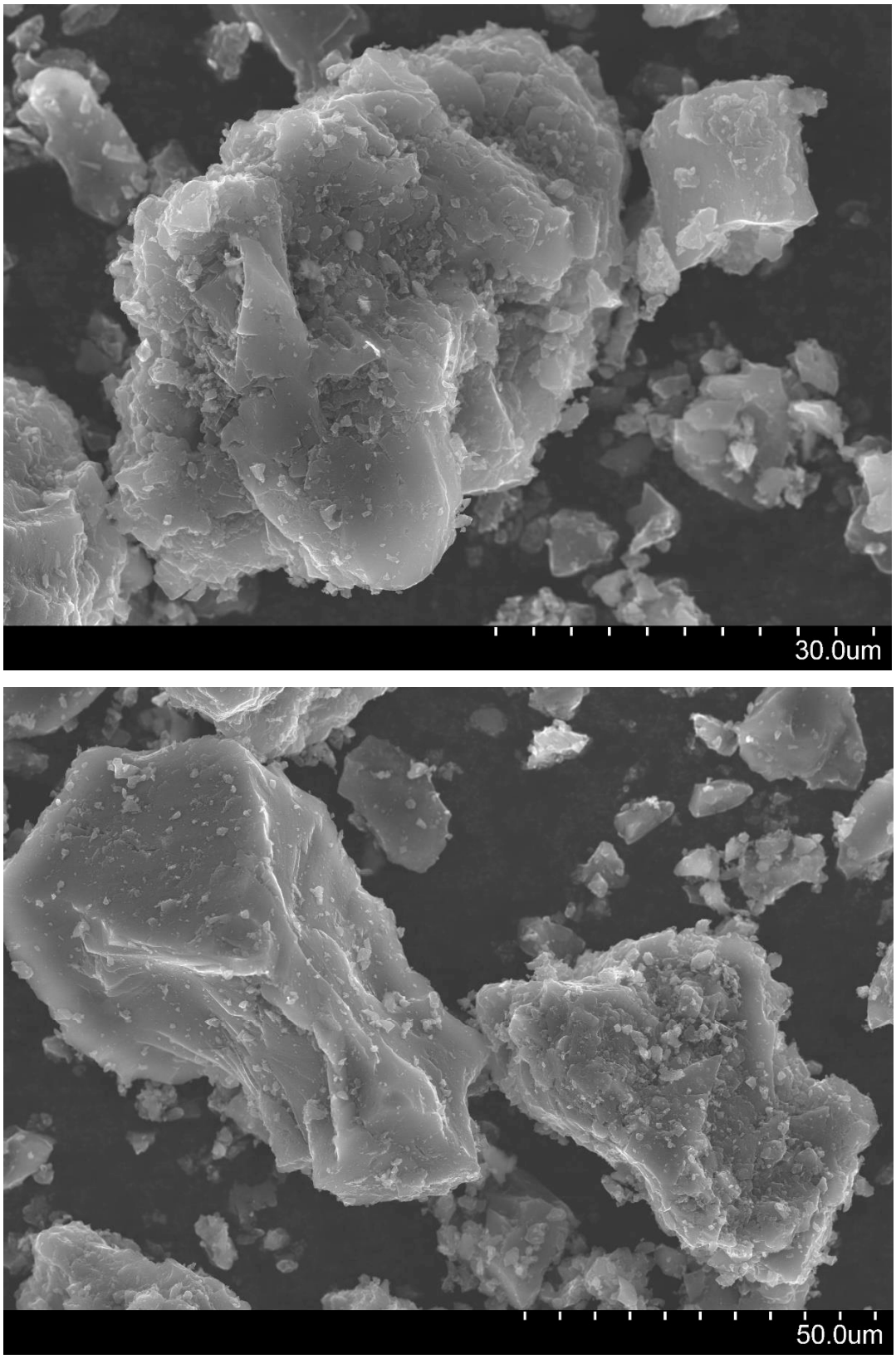


Figure S2. SEM images of MH.

Some computational models

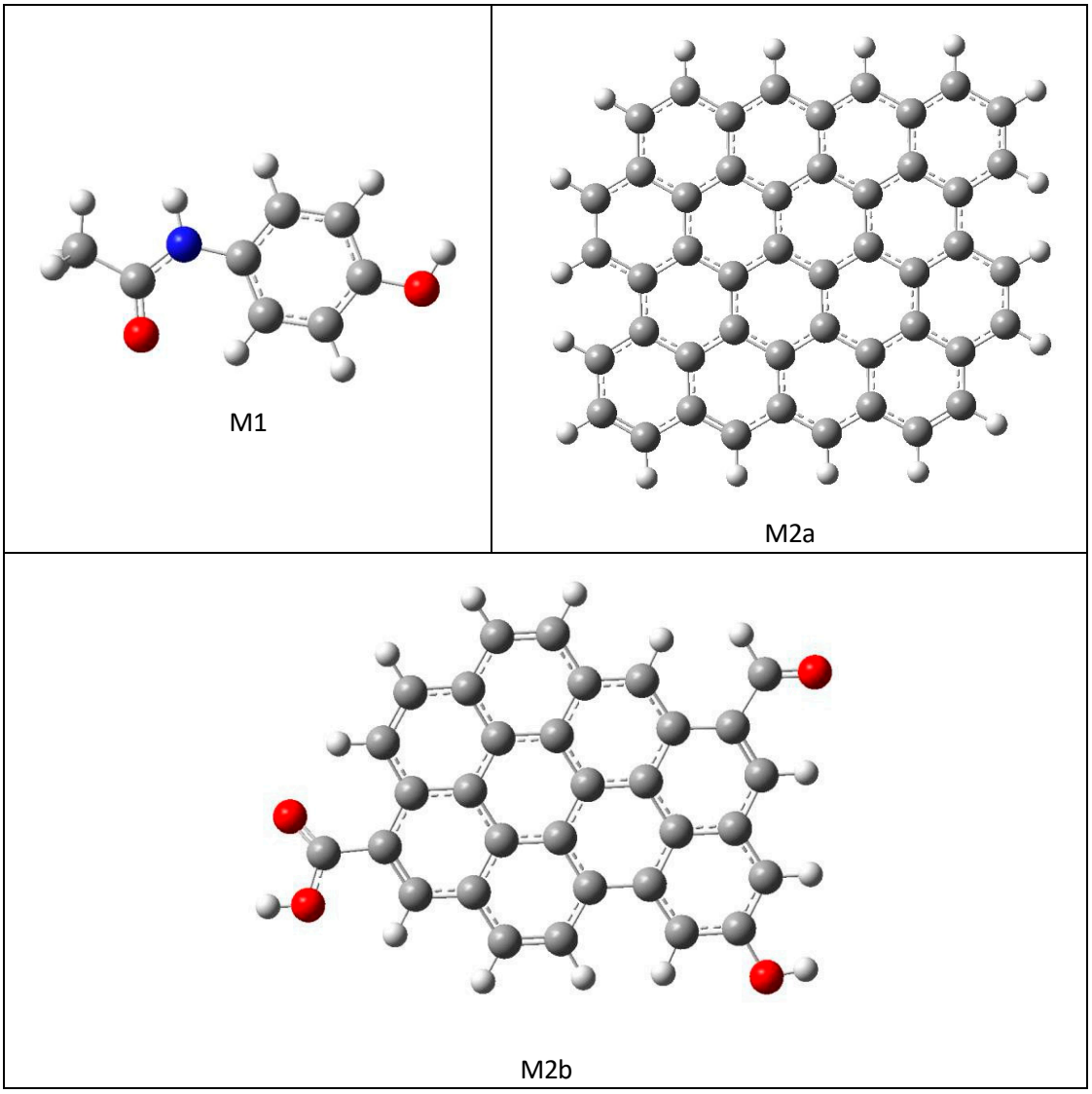
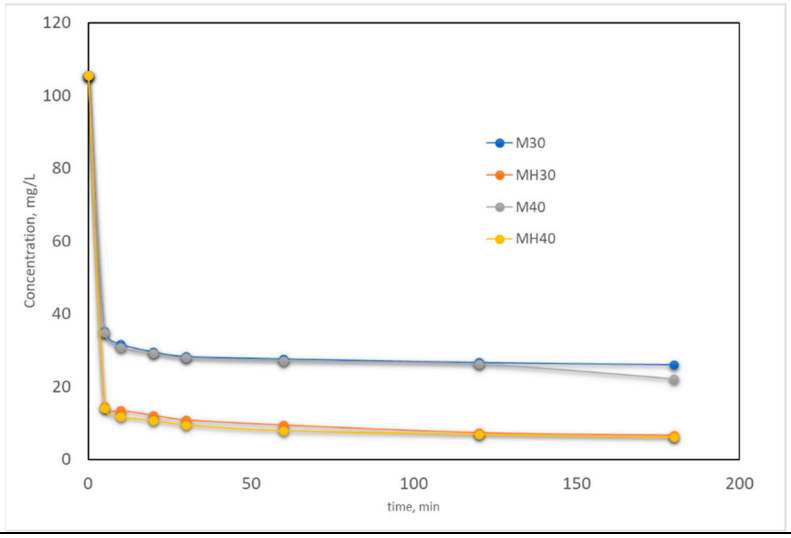
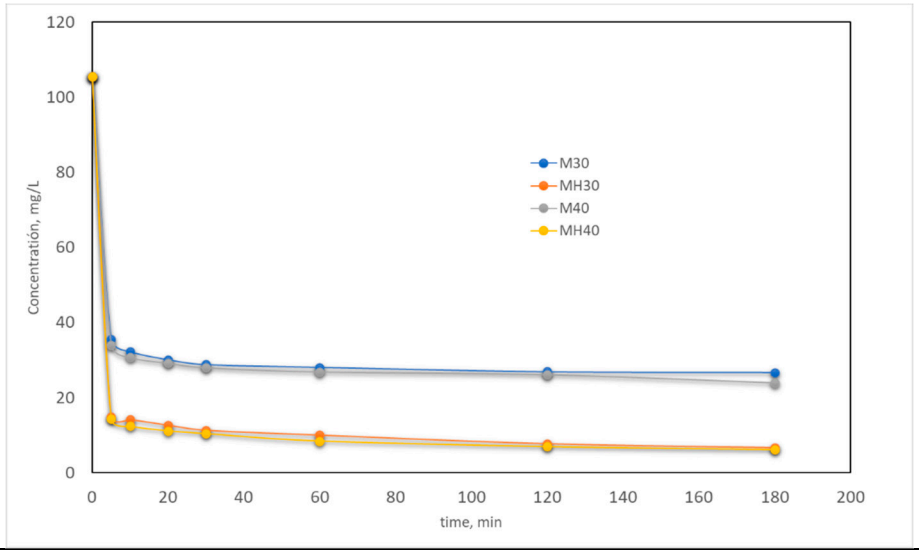


Figure S3. Models of APAP (M1), graphene (M2a) and oxidized graphene (M2b).

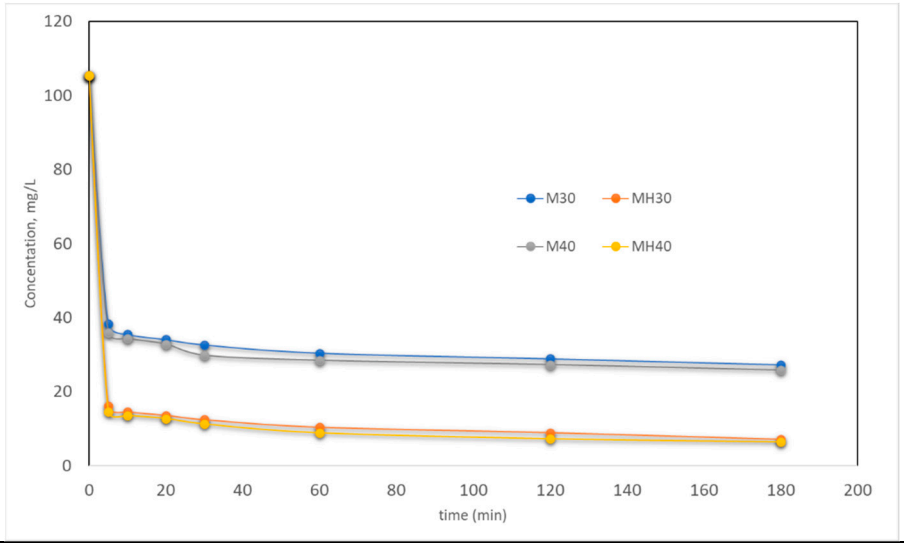
Kinetics



(a) pH 5



(b) pH 6



(c) pH 7

Figure S4. Kinetic plots of APAP adsorption at different pHs and temperatures.

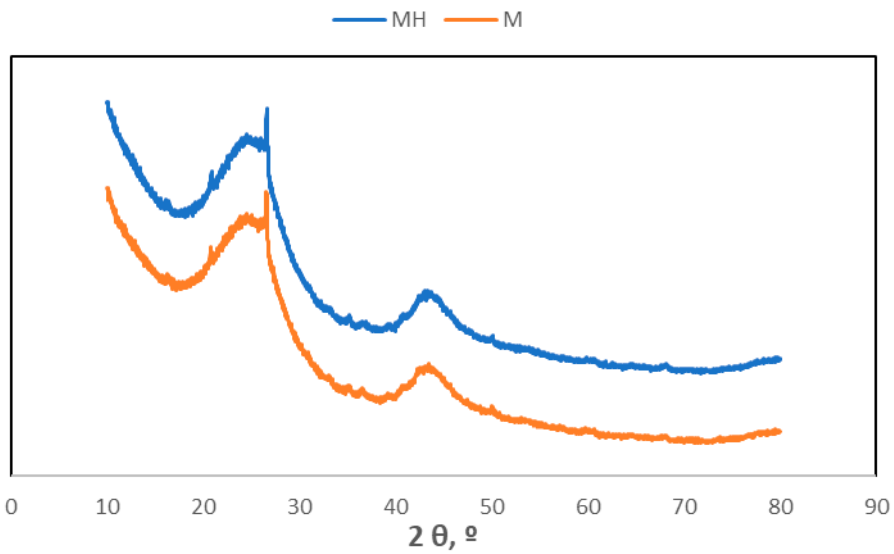


Figure S5. X-ray diffractograms of M and MH.

Proximate analysis

Table S1. Heating program

T_i ºC	T_f ºC	Heating rate, ºC min^{-1}	It, min	Atmosphere	Gas flow, mL min^{-1}	Step
40	40		30	Ar	100	Stabilization
40	105	10		Ar	100	Humidity measurement
105	105		10	Ar	100	
105	900	30		Ar	100	V. M. measurement
900	900		7	Ar	100	
900	900		90	Ar/O_2, 80:20	100	Measurement of F.C. and ash

T_i, initial temperatura; T_f, final temperatura; it, isothermal time