

Supplementary Material

Structural and surface properties of polyvinylpyrrolidone and aloe vera - capped iron oxide nanoparticles: Application in the photocatalytic degradation of methylene blue

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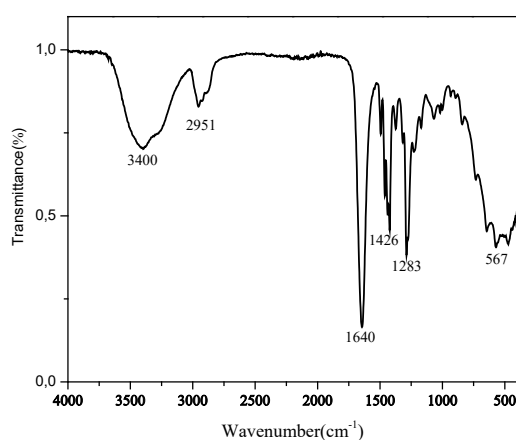


Figure S1a. IR spectra of PVP.

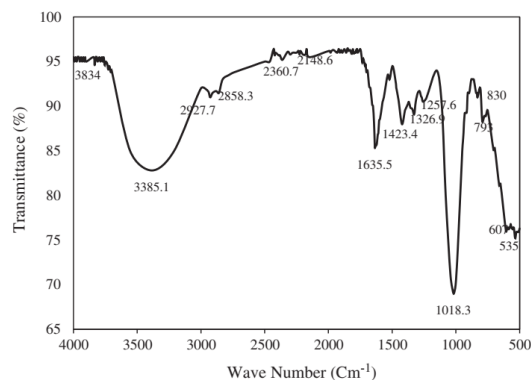


Figure S1b. IR spectra of aloe vera.

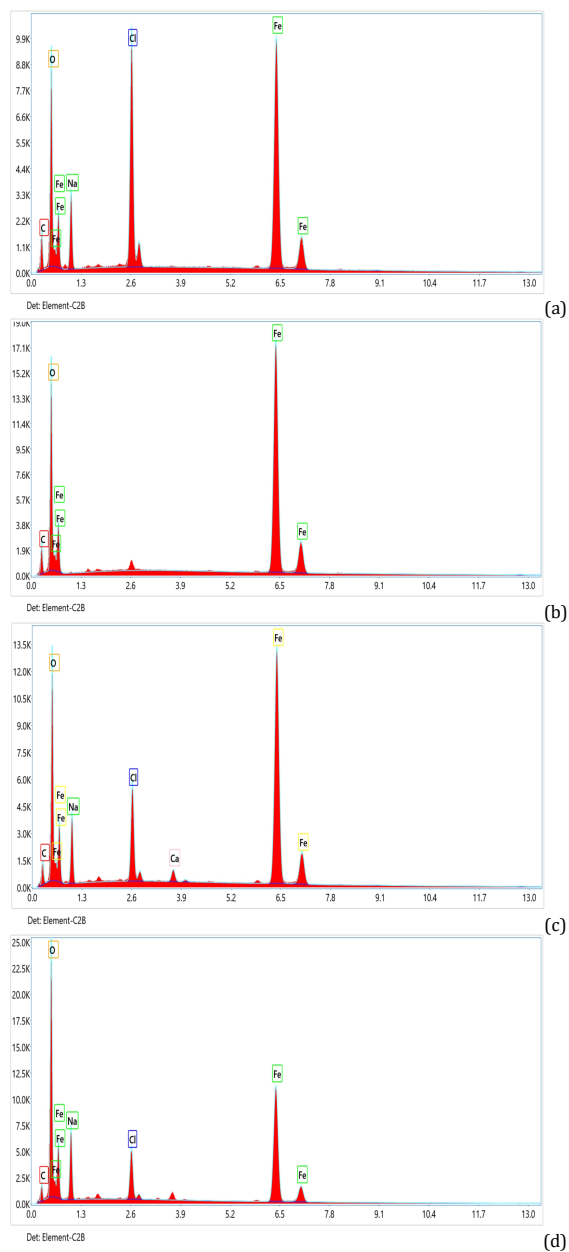


Figure S2. EDX of (a) IP-25, (b) IP-80, (c) IAP-80 (d) IAP-25.

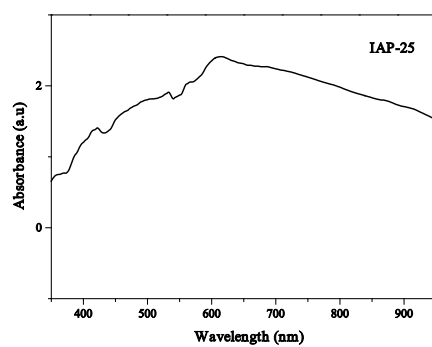


Figure S3. UV-vis spectra of IAP-25.

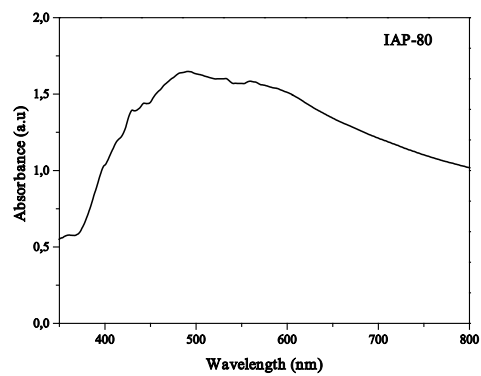


Figure S4. UV-vis spectra of IAP-80.

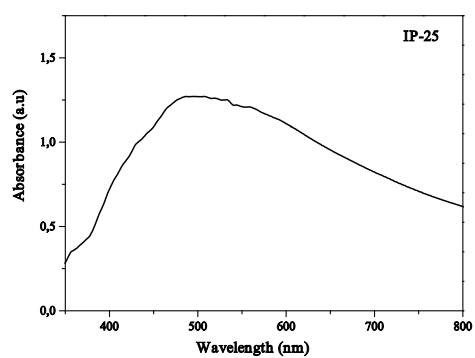


Figure S5. UV-visible Spectrum of IP-25.

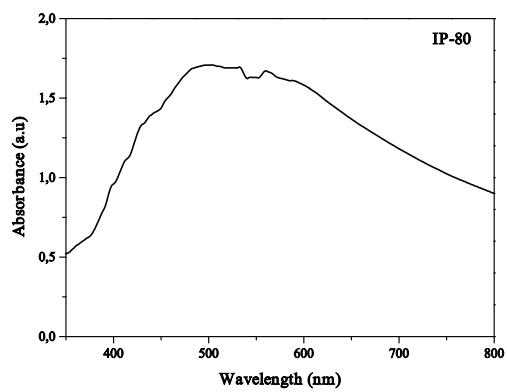
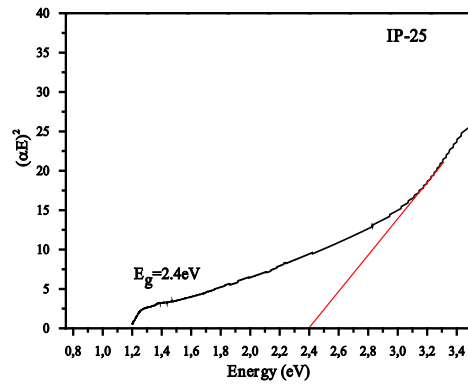
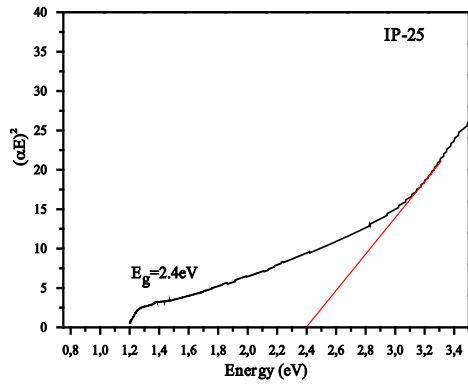


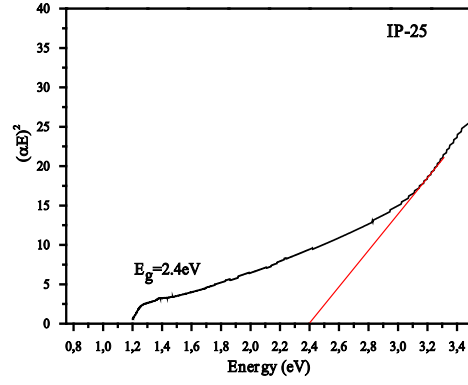
Figure S6. UV-visible spectrum of IP-80.



(a)



(b)



(c)

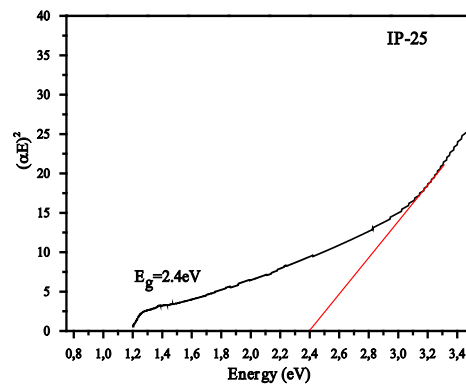
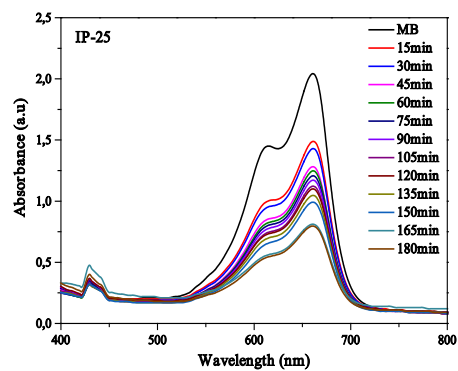
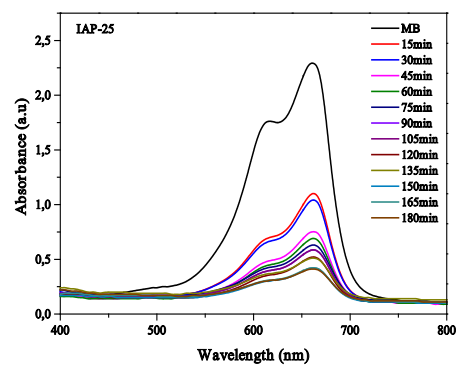


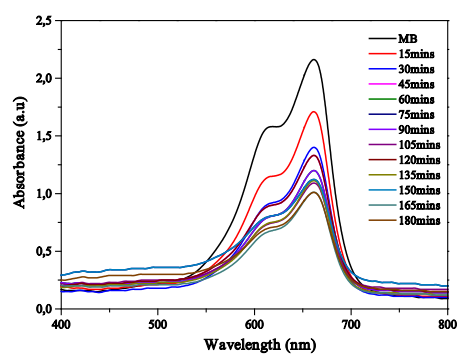
Figure S7. Tauc plots of (a) IP-25 (b) IP-80 (c) IAP-25 (d) IAP-80.



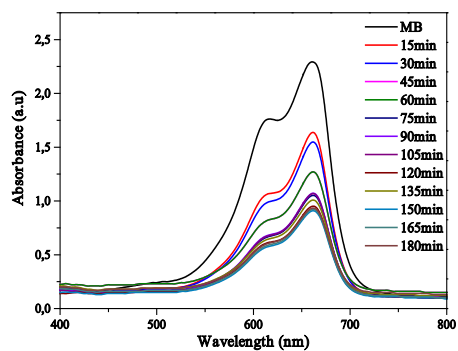
(a)



(b)



(c)



(d)

Figure S8. Photodegradation curves of MB by IP-25, IP-80, IAP-25 and IAP-80 after 180 min under UV irradiation.