

Nafcillin-Loaded Photocrosslinkable Nanocomposite Hydrogels for Biomedical Applications

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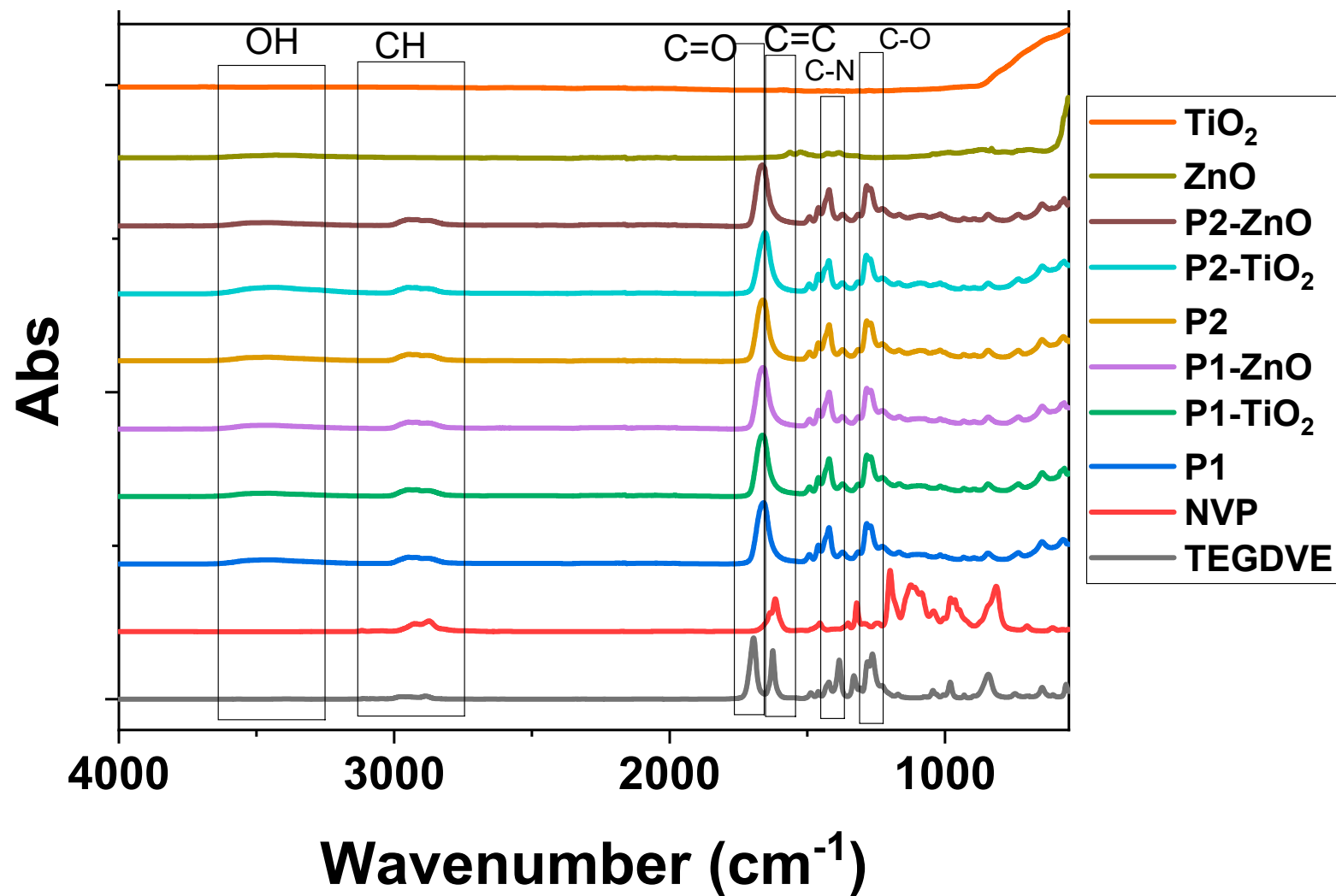


Figure S1. FT-IR analysis for the synthesized hydrogels, TiO₂, ZnO and monomers (NVP, TEGDVE)

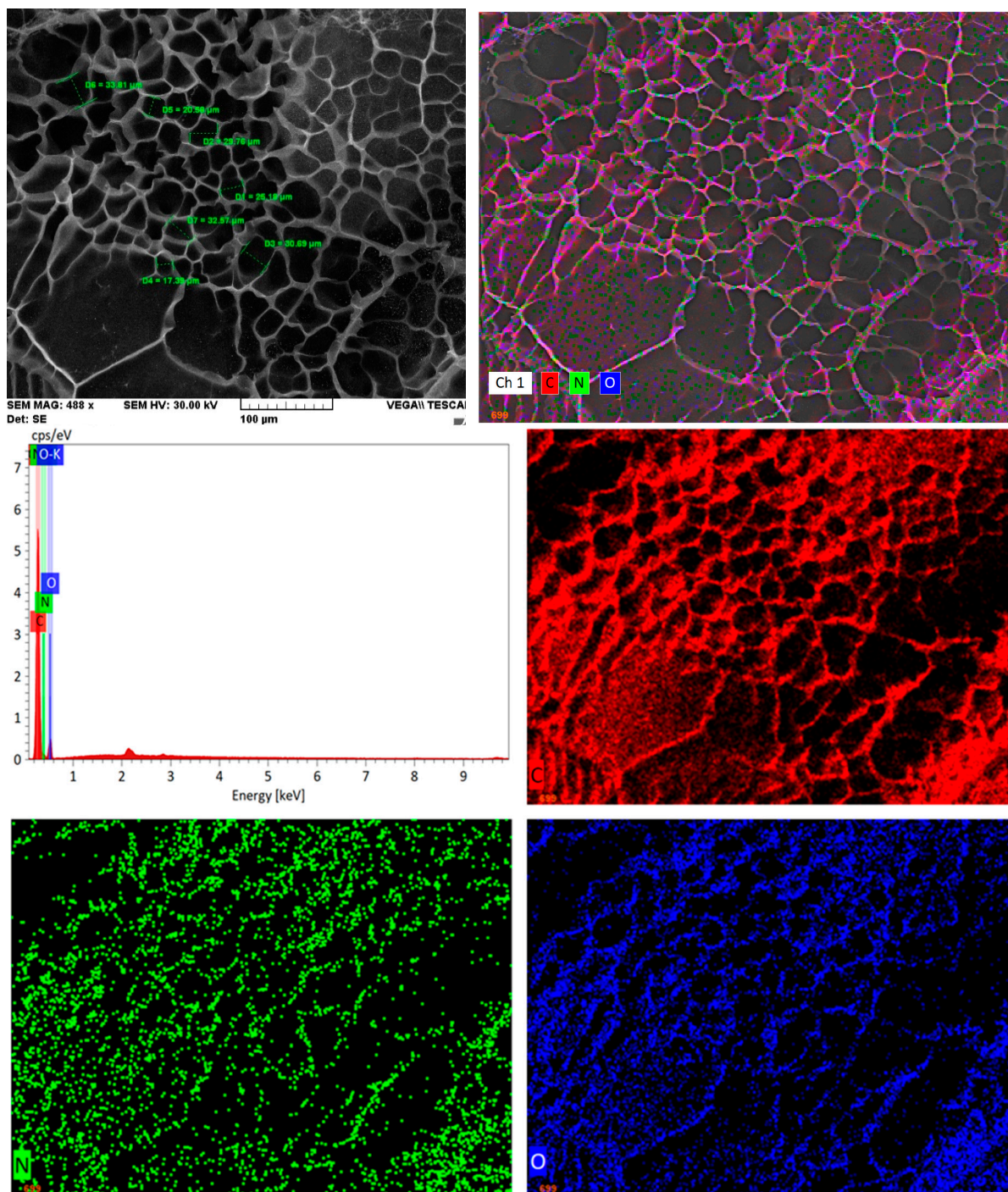


Figure S2. SEM image and EDX mapping of lyophilized P1

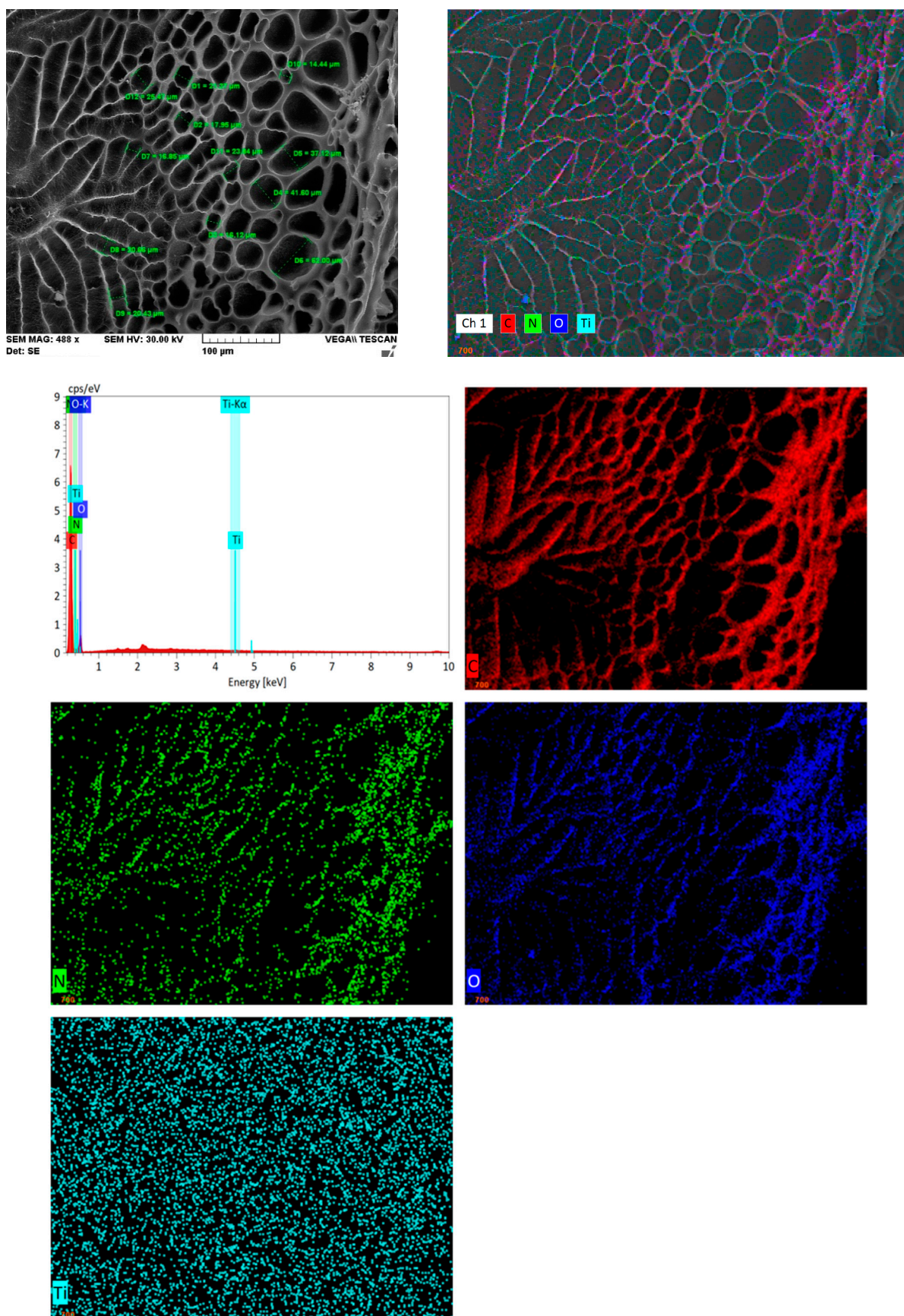


Figure S3. SEM image and EDX mapping of lyophilized P1-TiO₂

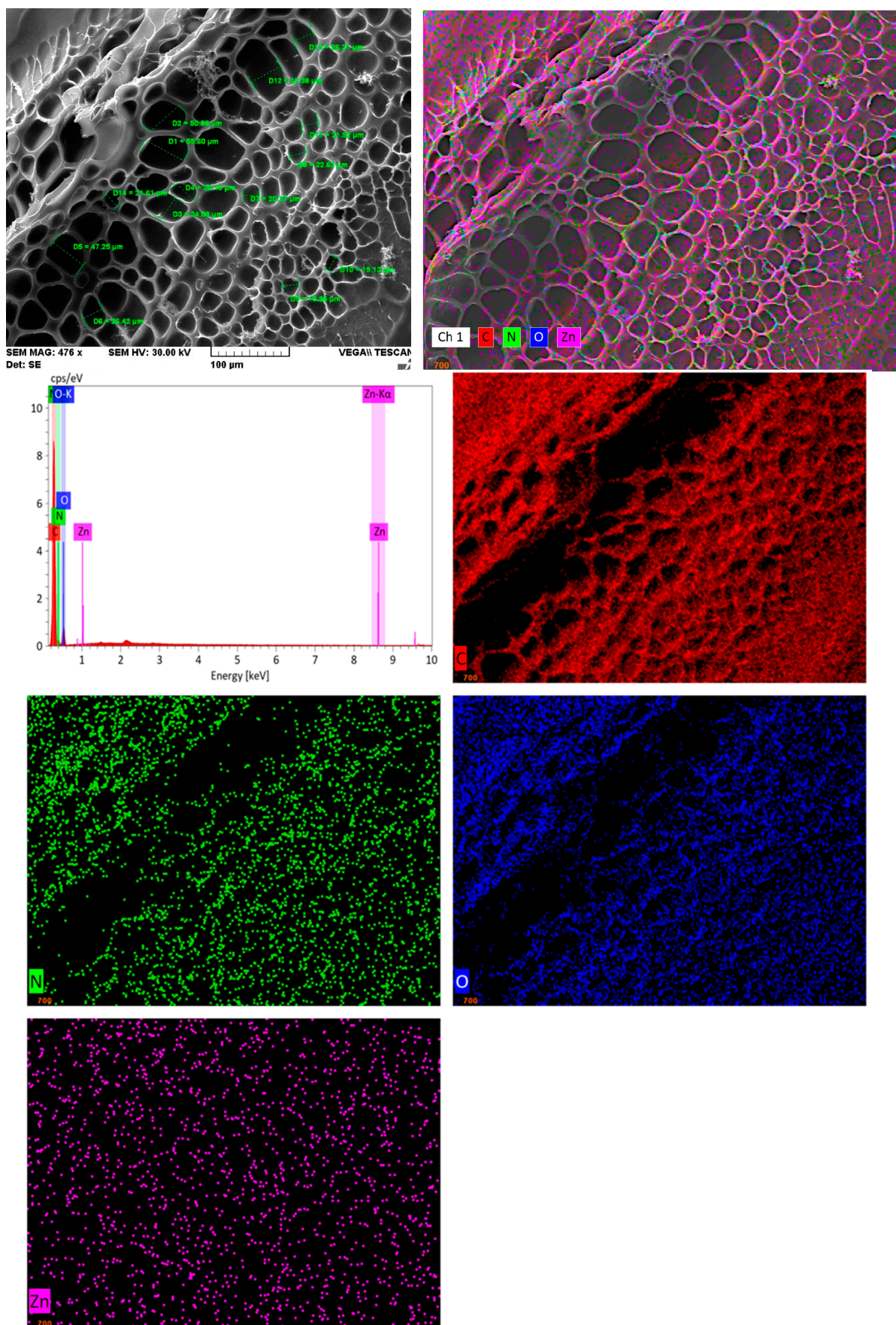


Figure S4. SEM image and EDX mapping of lyophilized P1-ZnO

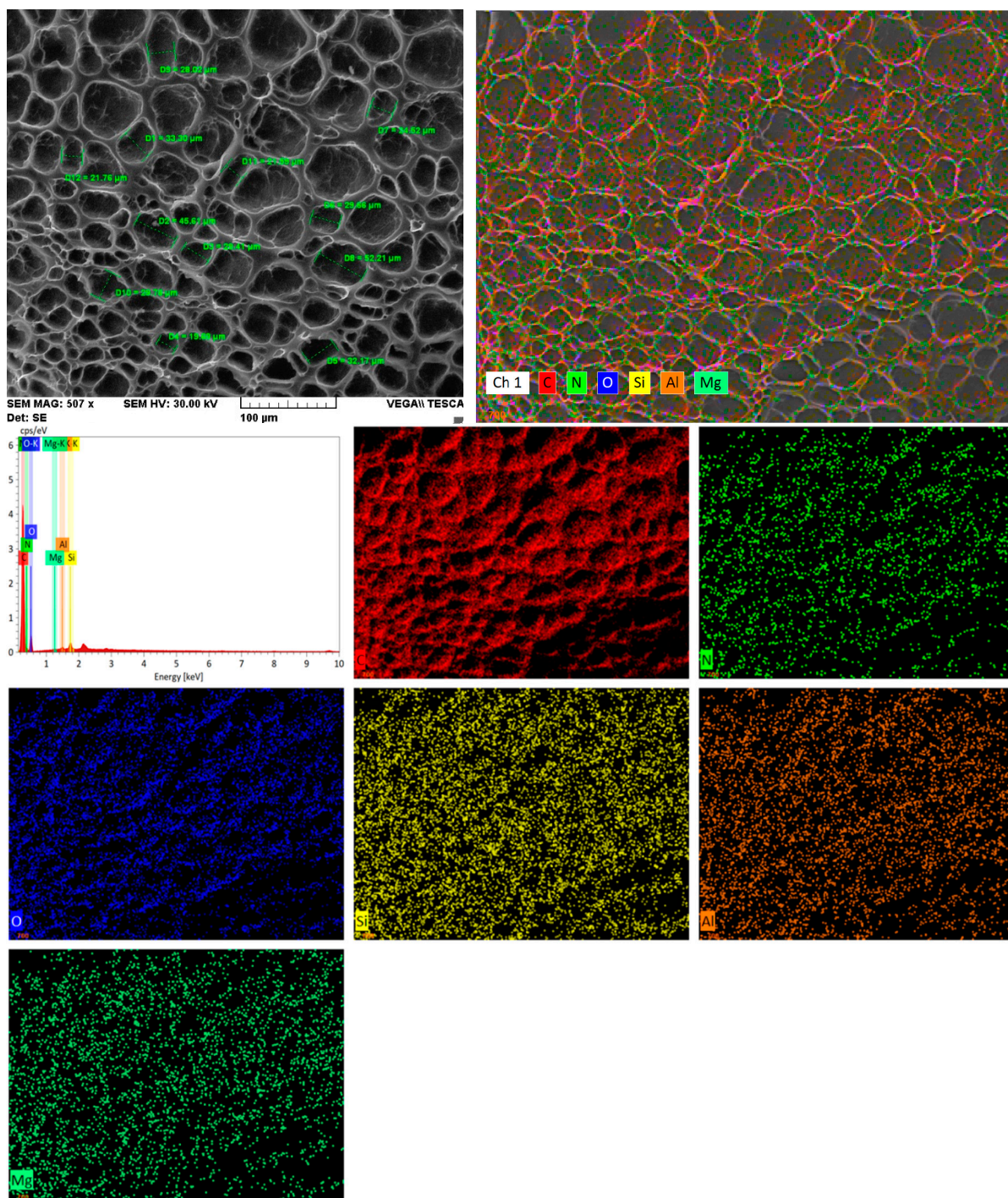


Figure S5. SEM image and EDX mapping of lyophilized P2

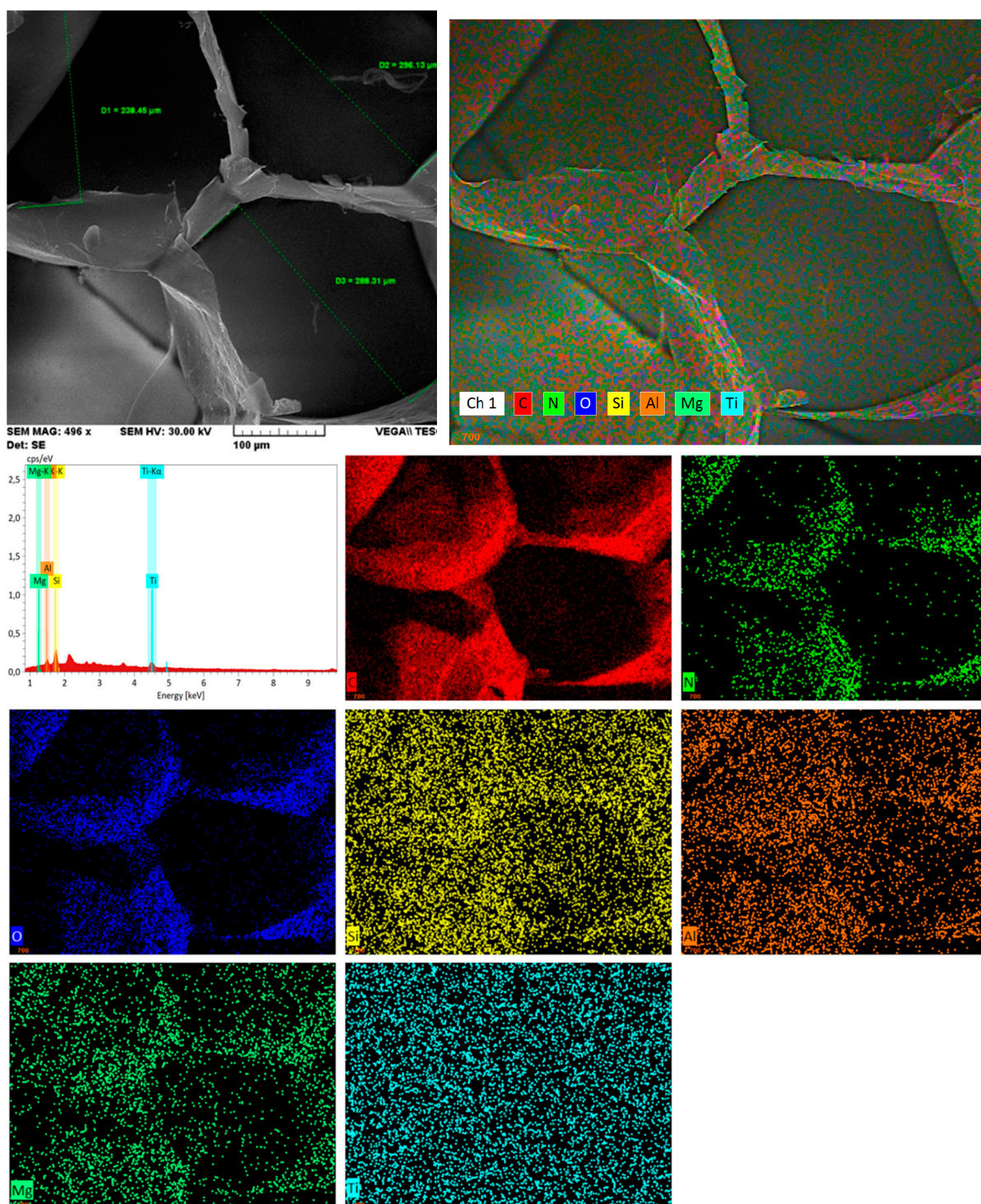


Figure S6. SEM image and EDX mapping of lyophilized P2-TiO₂

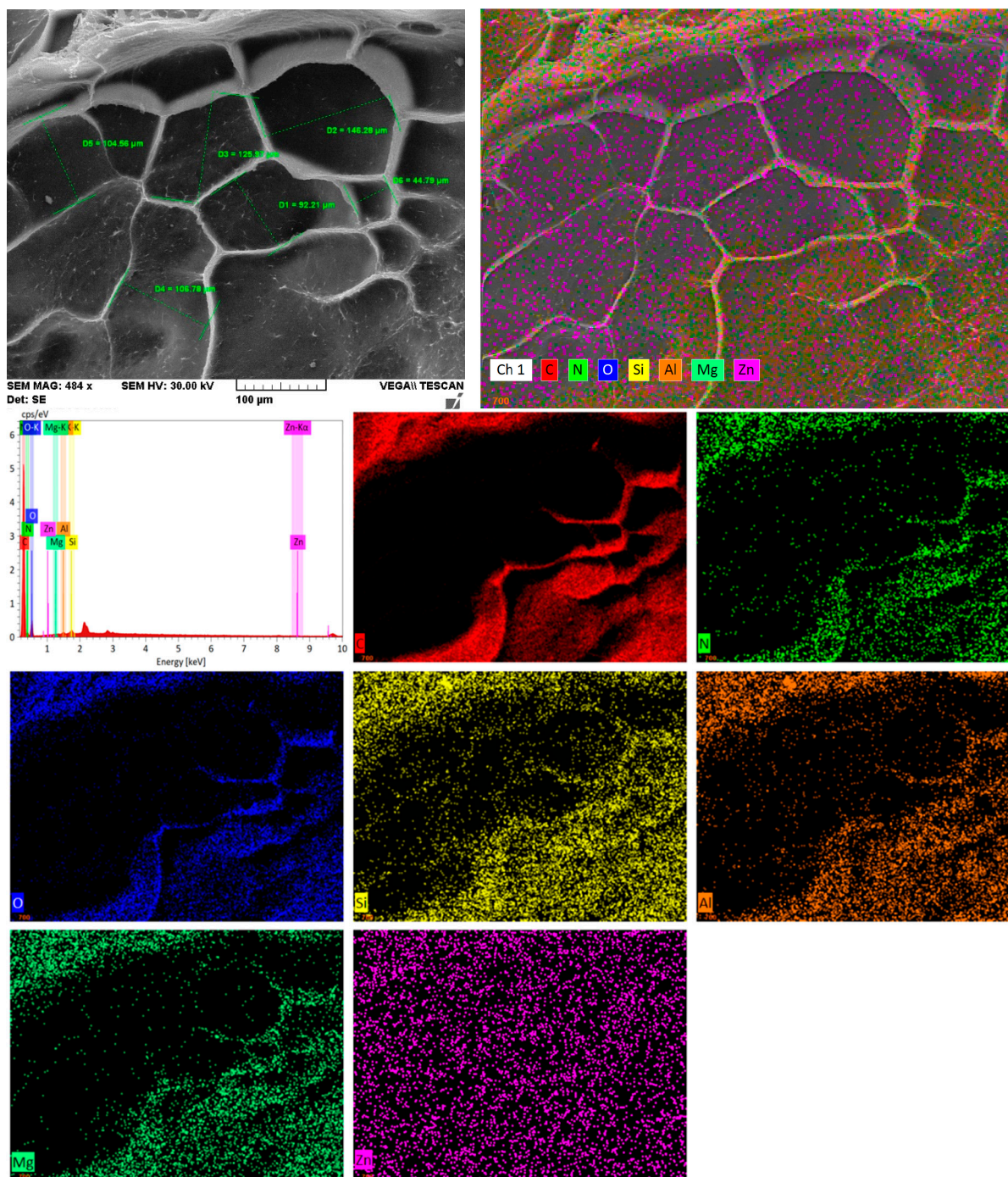
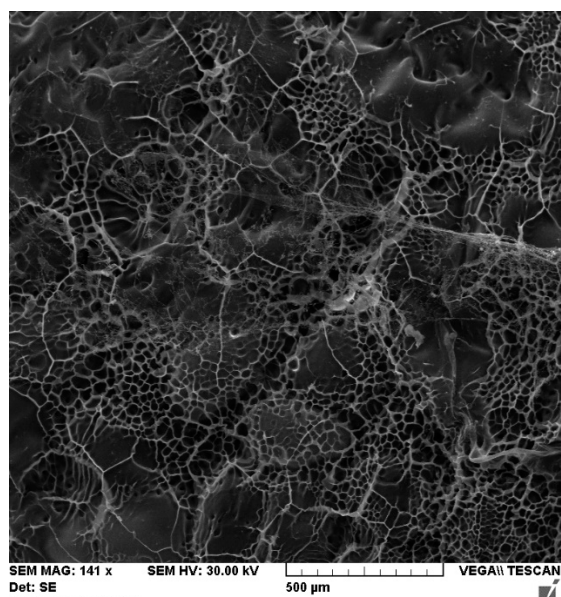
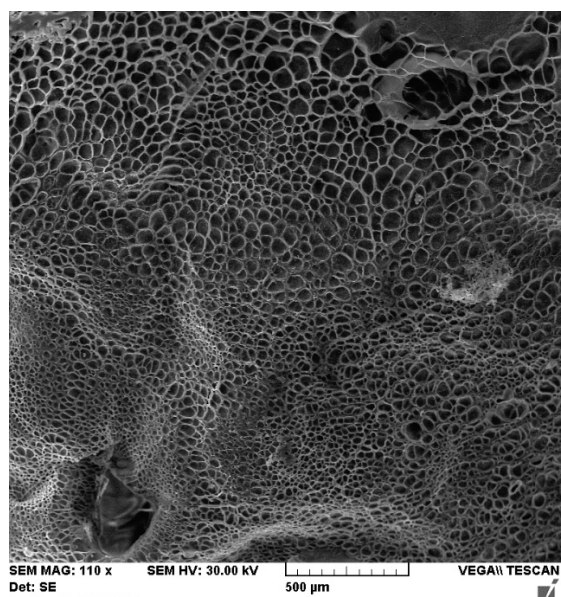


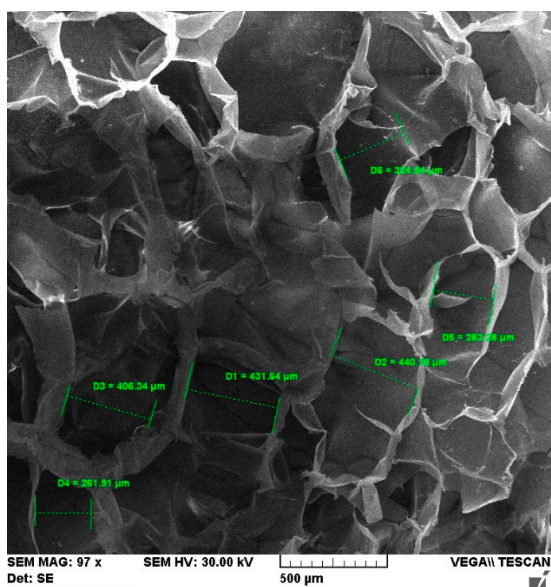
Figure S7. SEM image and EDX mapping of lyophilized P2-ZnO



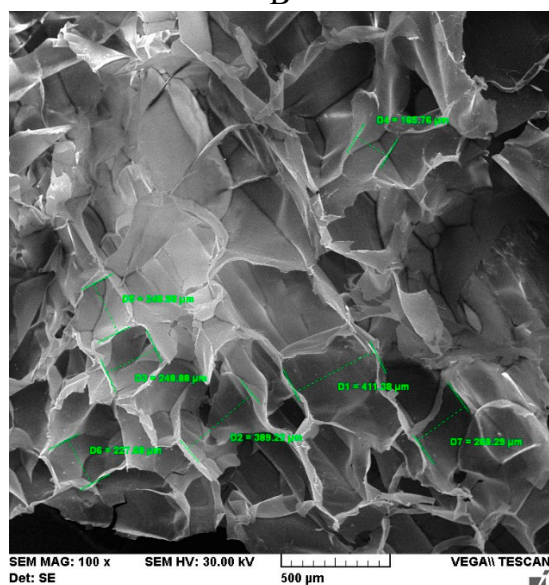
A



B



C



D

Figure S8. SEM images of lyophilized samples
(A) P1, (B) P2, (C) P2-TiO₂, (D) P2-ZnO

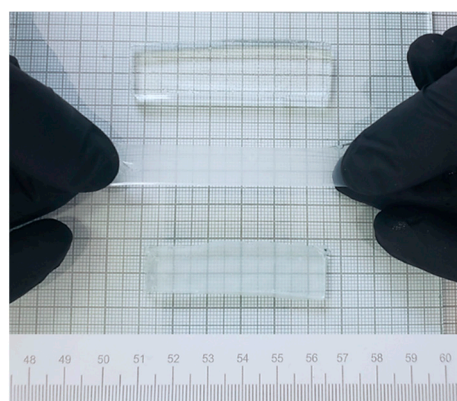
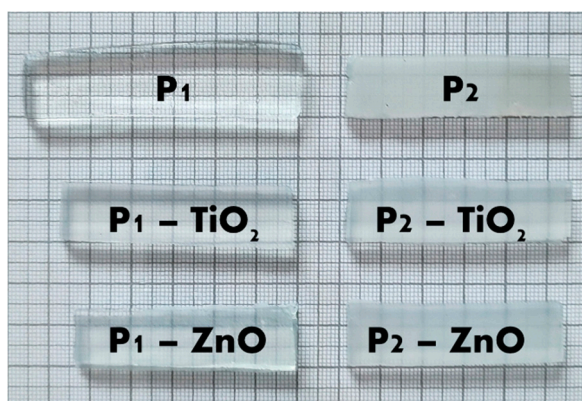


Figure S9. Exemplification of equilibrium - swollen nanocomposite hydrogel films

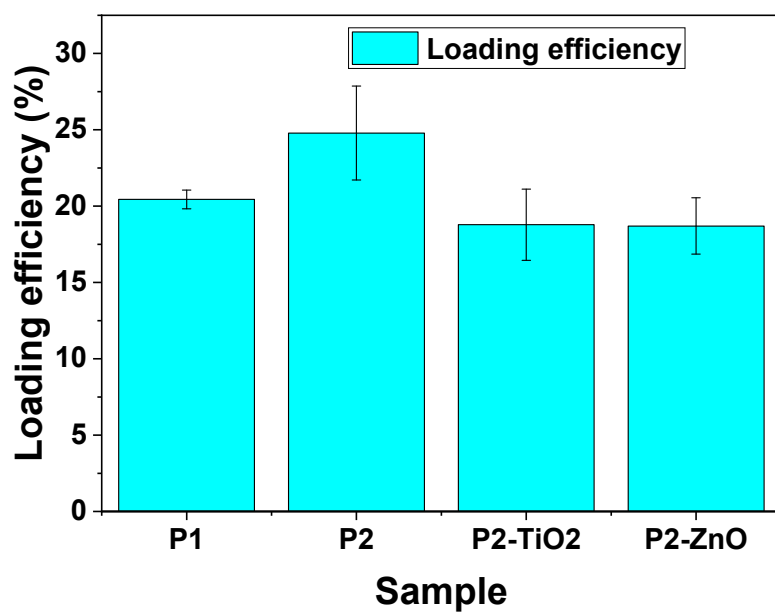


Figure S10. Nafcillin loading efficiency in the hydrogels

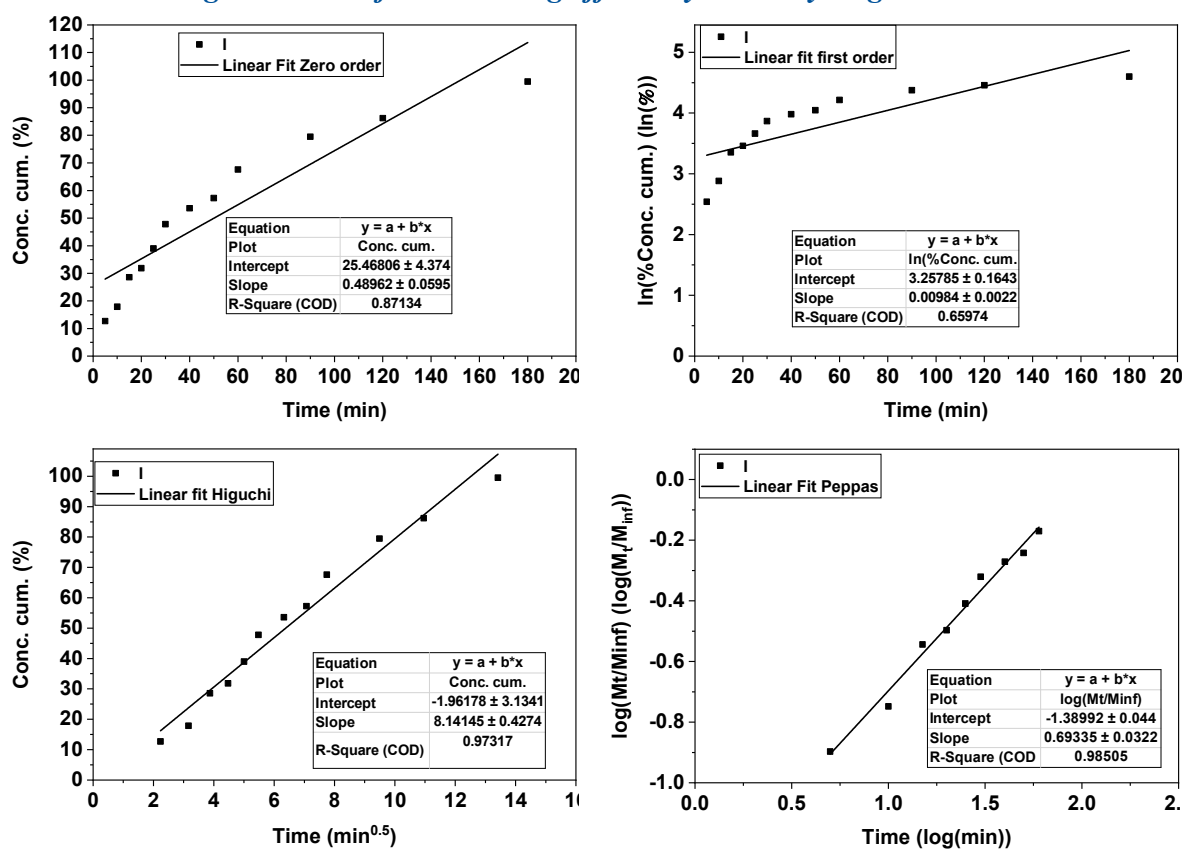


Figure S11. Nafcillin release - data fitting for sample P1

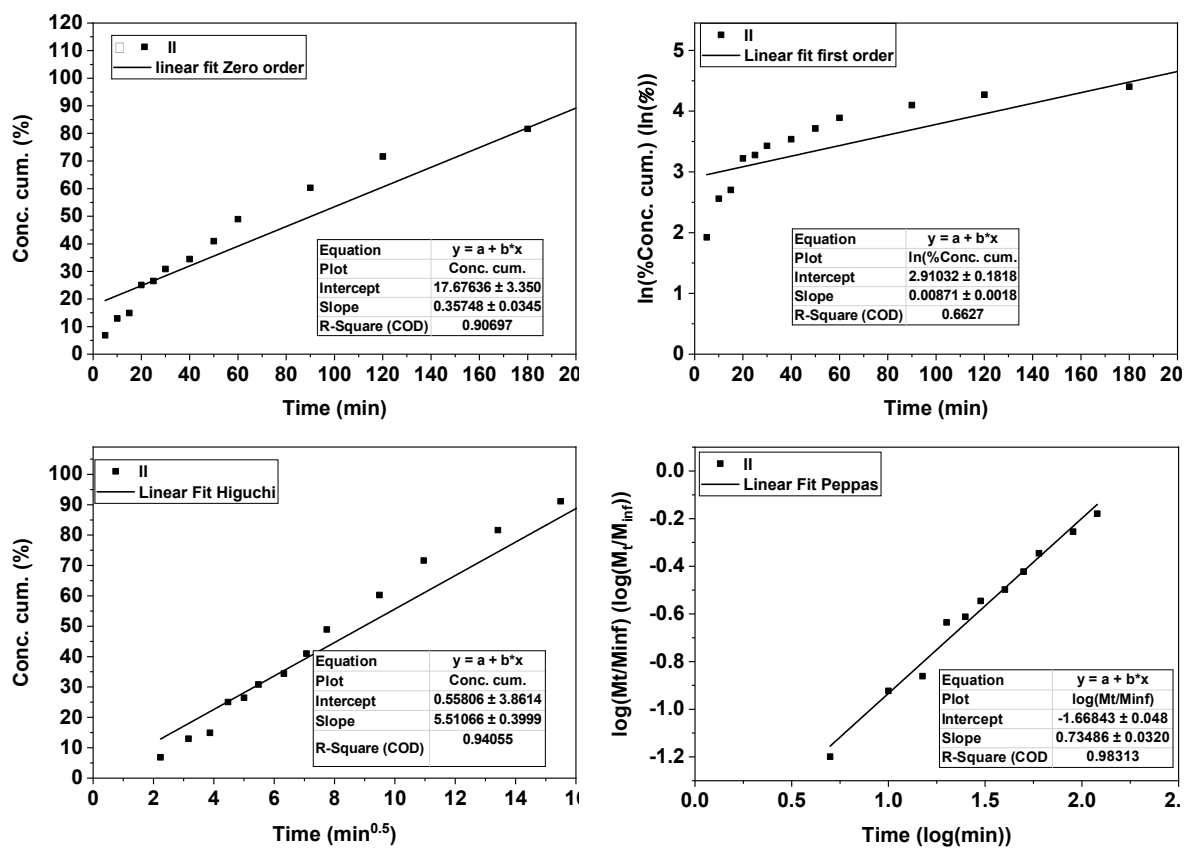


Figure S12. Nafcillin release - data fitting for sample P2

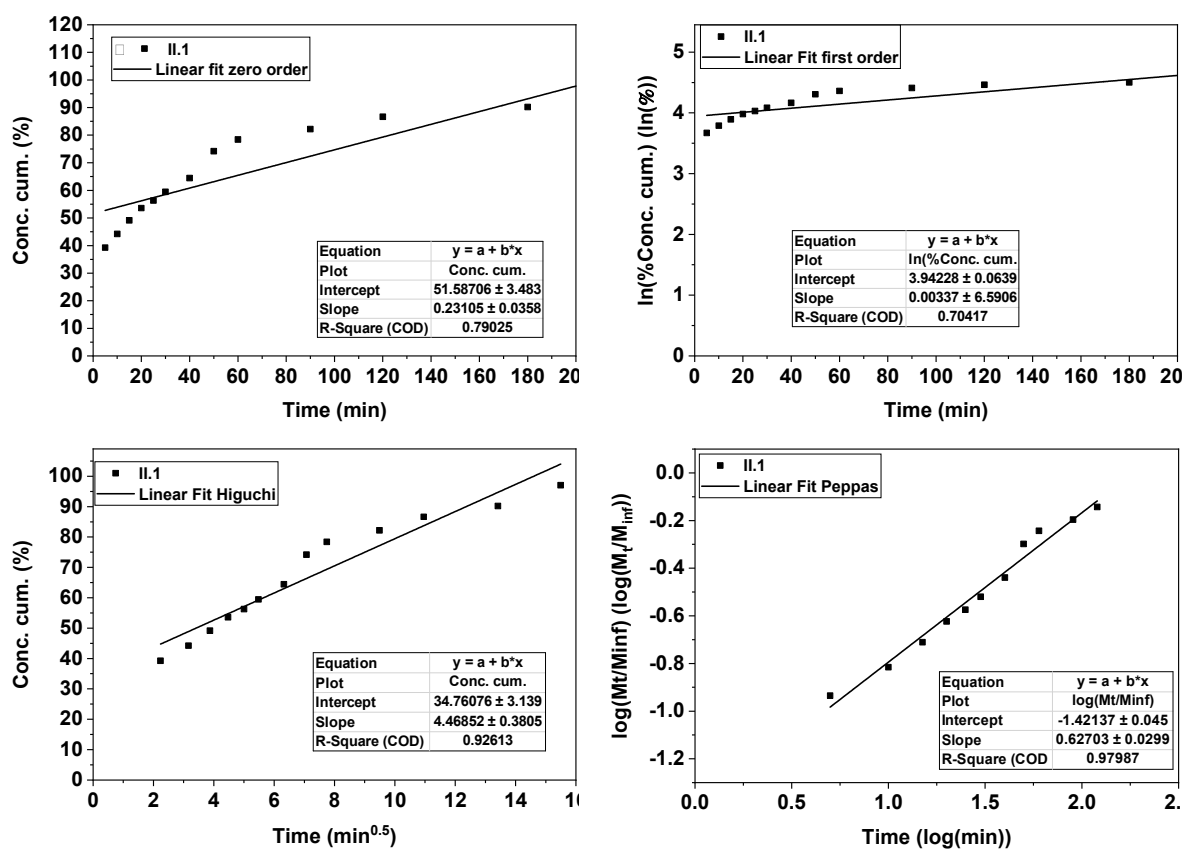


Figure S13. Nafcillin release - data fitting for sample P2.1 (P2 – TiO₂)

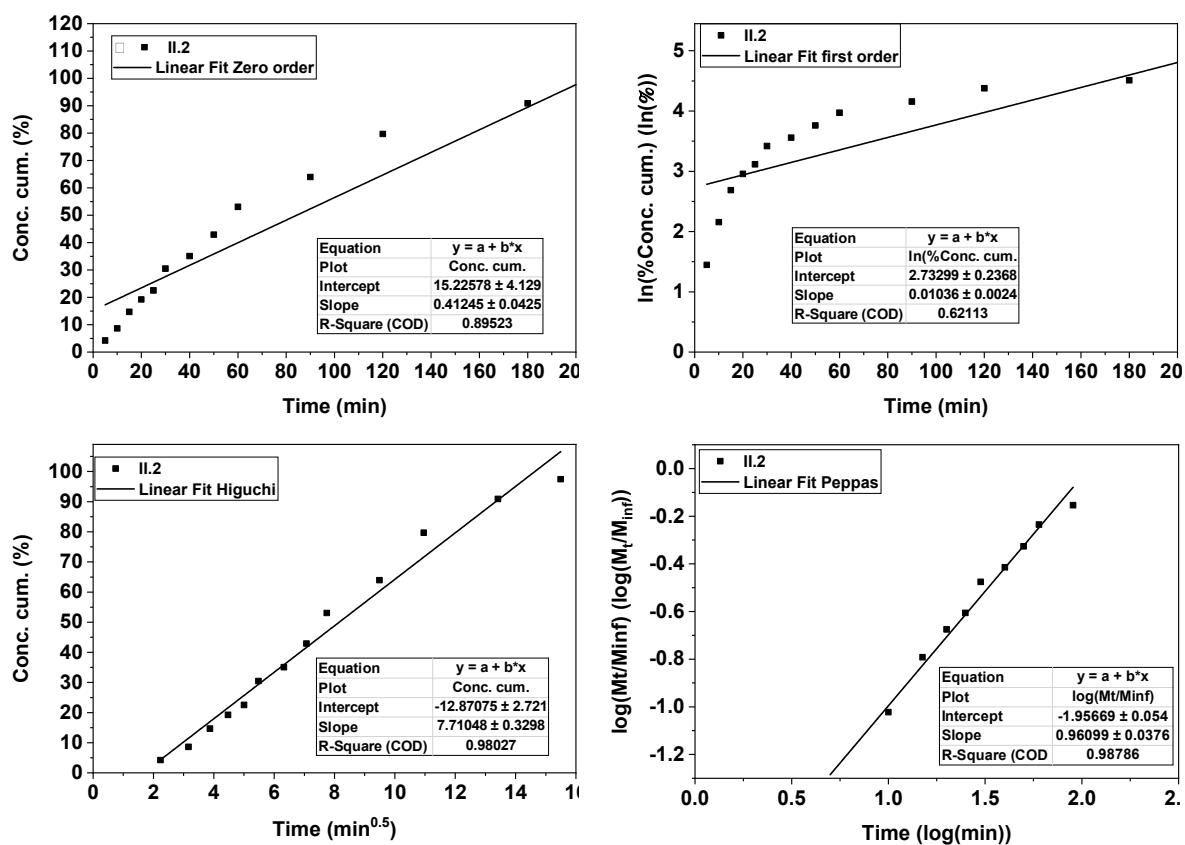


Figure S14 – Nafcillin release - data fitting for sample P2.2 (P2 - ZnO)