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Supporting Information

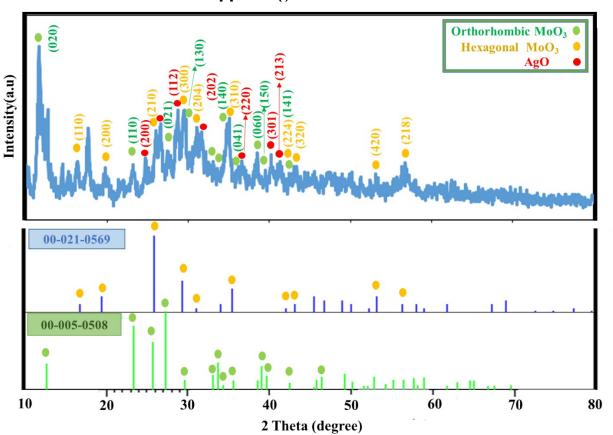
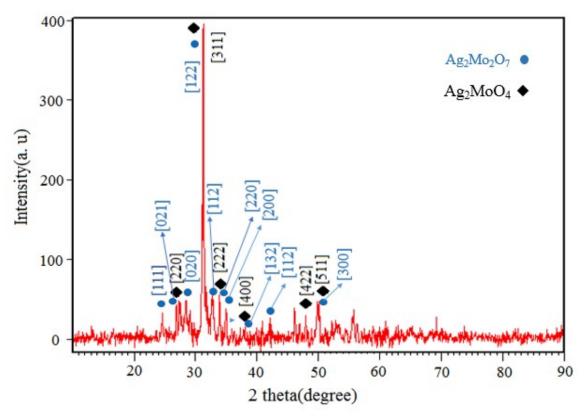
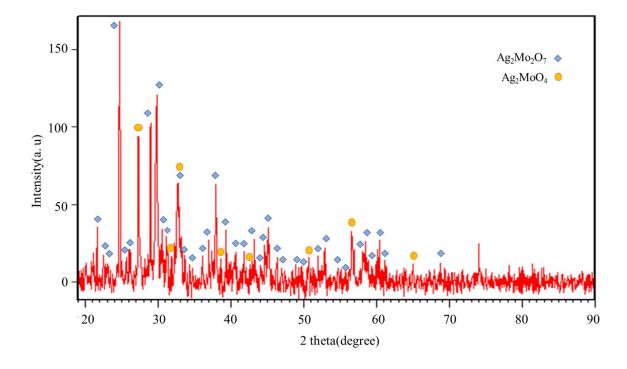


Figure S1. XRD pattern of synthesized cryogels with 1:1 Ag/Mo molar ratio.



 $\label{eq:Fig.S2} \textbf{Fig.S2} \ \text{XRD pattern of a Two-phase mixture powder of } Ag_2Mo_2O_7/Ag_2MoO_4 \ \text{synthesized under hydrothermal condition.}$



 $\label{eq:Fig.S3} Fig.S3~XRD~pattern~of~black~powder~of~Ag_2Mo_2O_7/Ag_2MoO_4~synthesized~under~sonication~in~DMSO.$

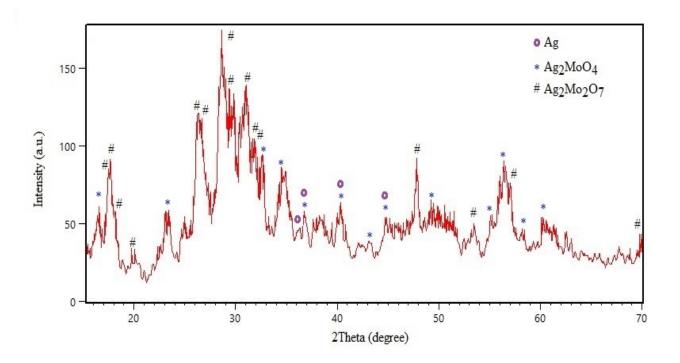


Fig.S4 XRD pattern of composite cryogel synthesized under sonication in H₂O/DMSO.

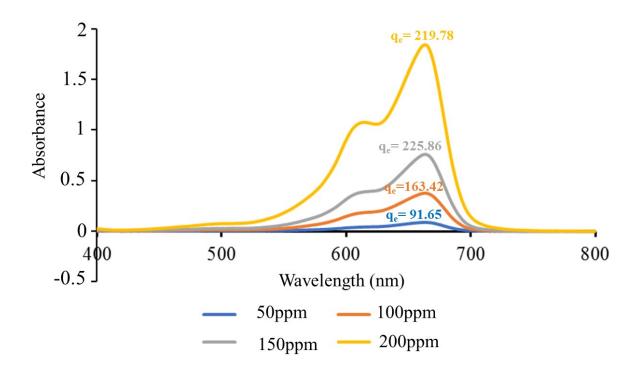


Fig.S5 Absorption spectra of different concentration of MB solution in the presence of SMSSO cryogel under dark conditions.

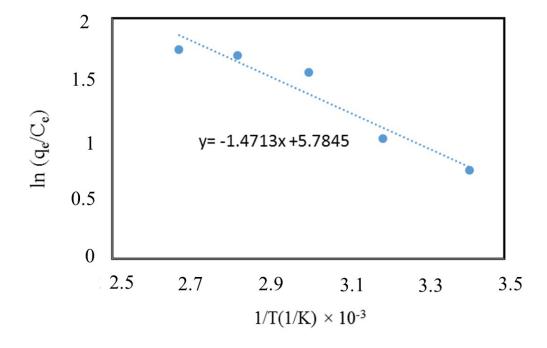


Fig.S6 Van't Hoff equation's plot of 1/T vs. lnK for prepared cryogel.