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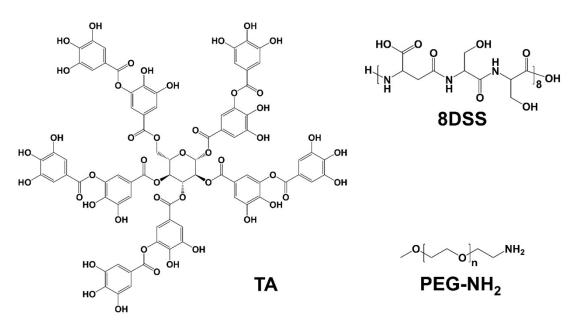


Fig. S1 The structural formula of TA, 8DSS and PEG.

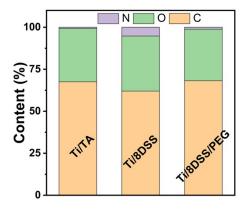


Fig. S2 Surface element composition of Ti/TA, Ti/8DSS and Ti/8DSS/PEG obtained from XPS spectra.

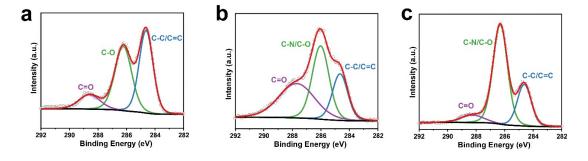


Fig. S3 High-resolution C 1s spectra of Ti/TA (a), Ti/8DSS (b), and Ti/8DSS/PEG (c).

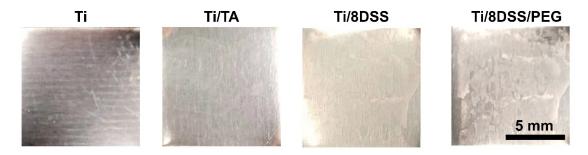


Fig. S4 Digital photos of prepared samples.

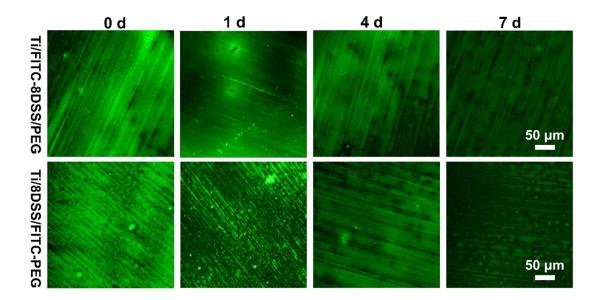


Fig. S5 Fluorescence staining images of Ti/FITC-8DSS/PEG and Ti/8DSS/FITC-PEG after immersed in PBS for 0, 1, 4 and 7 days.

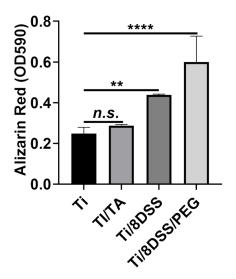


Fig. S6 Semiquantification of mineralized nodules of Ti, Ti/TA, Ti/8DSS and Ti/8DSS/PEG via alizarin red staining. $\gg \Rightarrow$ and $\gg \gg \gg \Rightarrow$ represents p < 0.01 and p < 0.0001, respectively.