

Supporting Information

## Novel Biodegradable Low- $\kappa$ Dielectric Nanomaterials from Natural Polyphenol

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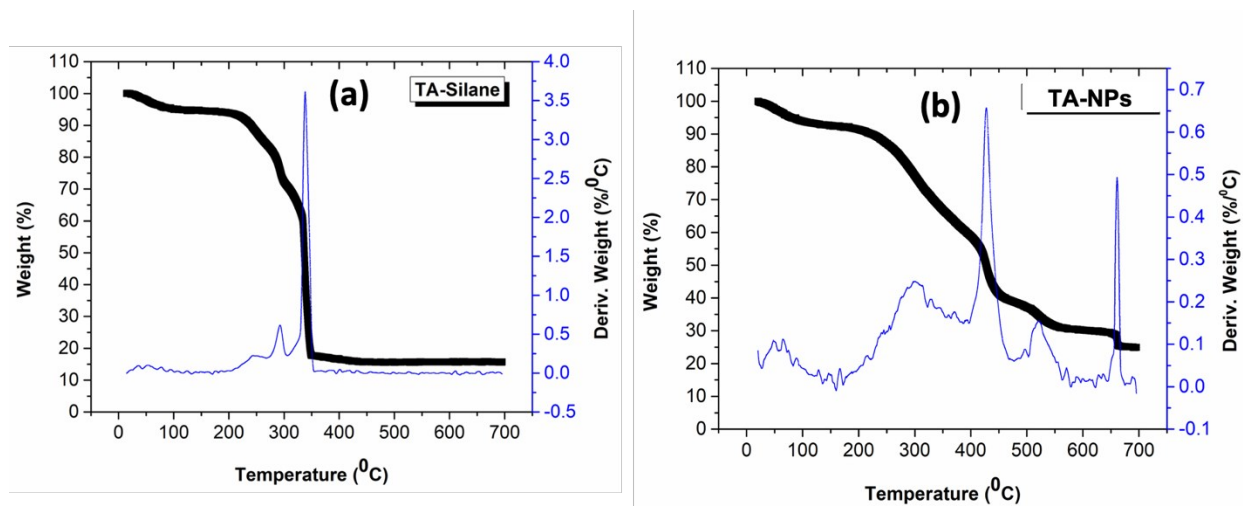


Figure S1: TGA graphs for (a) TA-silane, and (b) TA-NPs.

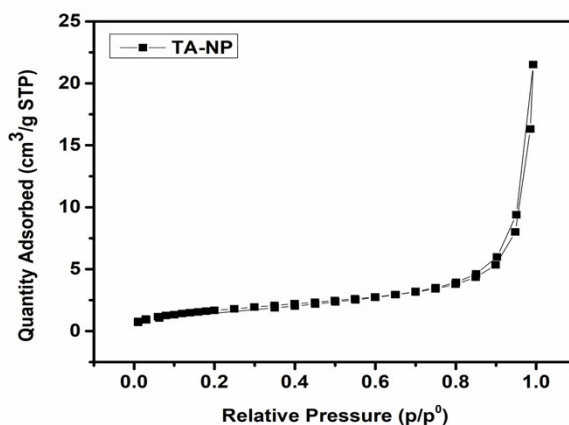
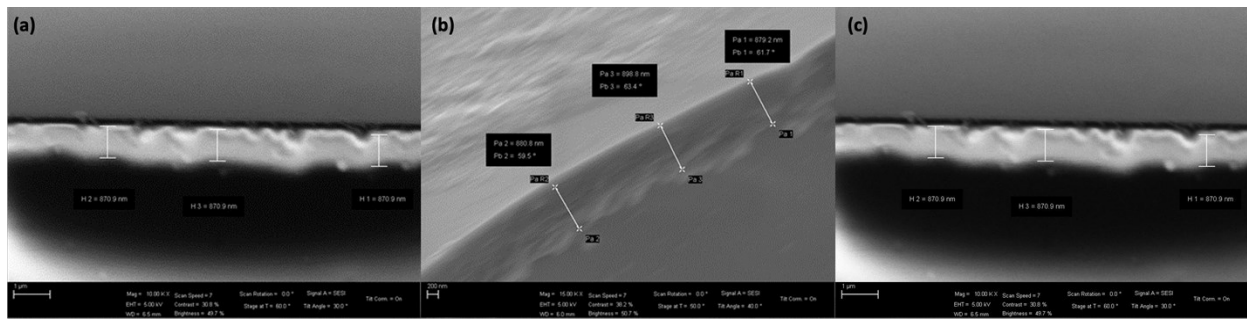


Figure S2: BET Isotherm of TA-NPs.



**Figure S3:** SEM images of thin film cross-sections for (a) tannic acid, (b) TA-silane, and (c) TA-NPs.