Electronic Supplementary Information for

Development of biomineralization-inspired hybrids based on β-chitin and zinc hydroxide carbonate and their conversion into zinc oxide thin films

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Fig. S1 Atomic force microscope image of a β-chitin nanofiber.
Fig. S2 FT-IR spectrum of chitin/ZHC hybrid with the presence of PAA.
Fig. S3 XRD patterns of zinc hydroxide carbonate precipitates formed a) with 3.6 × 10^{-2} wt% of PAA and b) in the absence of PAA.
**Fig. S4** FT-IR of a) β-chitin and b) TEMPO-mediated oxidized β-chitin. The peak at 1725 cm\(^{-1}\) is attributed to carboxylic acid group.