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Supporting Information

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Helical Microstructures of the Mineralized Coralline Red Algae Determine Their Mechanical Properties

Nuphar Bianco-Stein, Iryna Polishchuk, Gabriel Seiden, Julie Villanova, Alexander Rack, Paul Zaslansky, and Boaz Pokroy**

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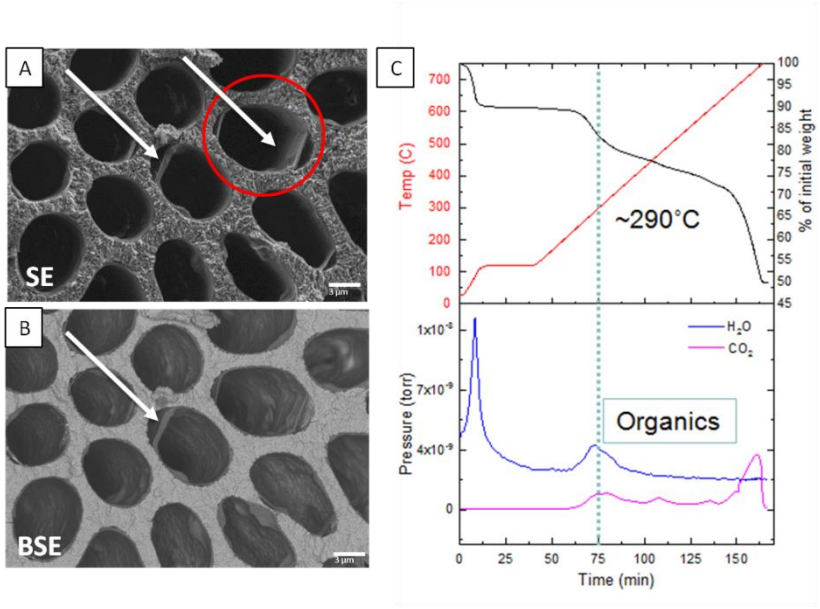

Figure S1. Characterization of the organic phase a) Secondary electron image of a cross section of *Jania* sp. at higher magnification. b) Back-scattered electron image of the area shown in (A), indicating the presence of at least two different phases. c) Coupled TGA-MS.

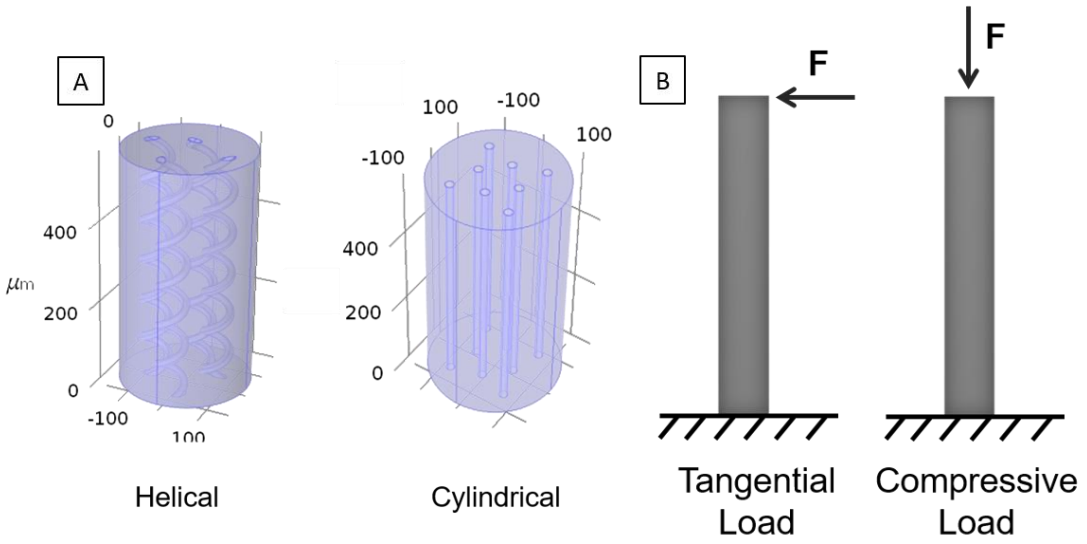

Figure S2. a) Models studied with finite element analysis. b) Modes of load used for the analysis.

Movie S1. Cross section of *Jania* sp. imaged at ID19 of the ESRF using X-ray microtomography along 75µm of the alga displaying its helical pores.