

Supplementary materials to:

Nanoclay-reinforced Alginate Aerogels: Preparation and properties.

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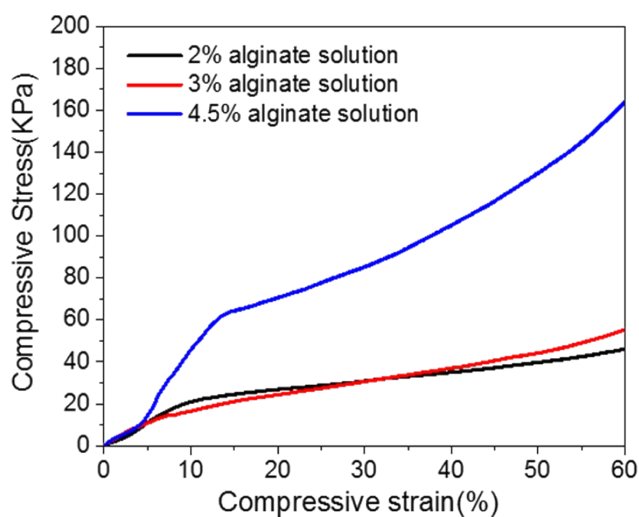


Fig. S1. Effect of the alginate concentration on mechanical properties of the alginate-nanoclay aerogel.

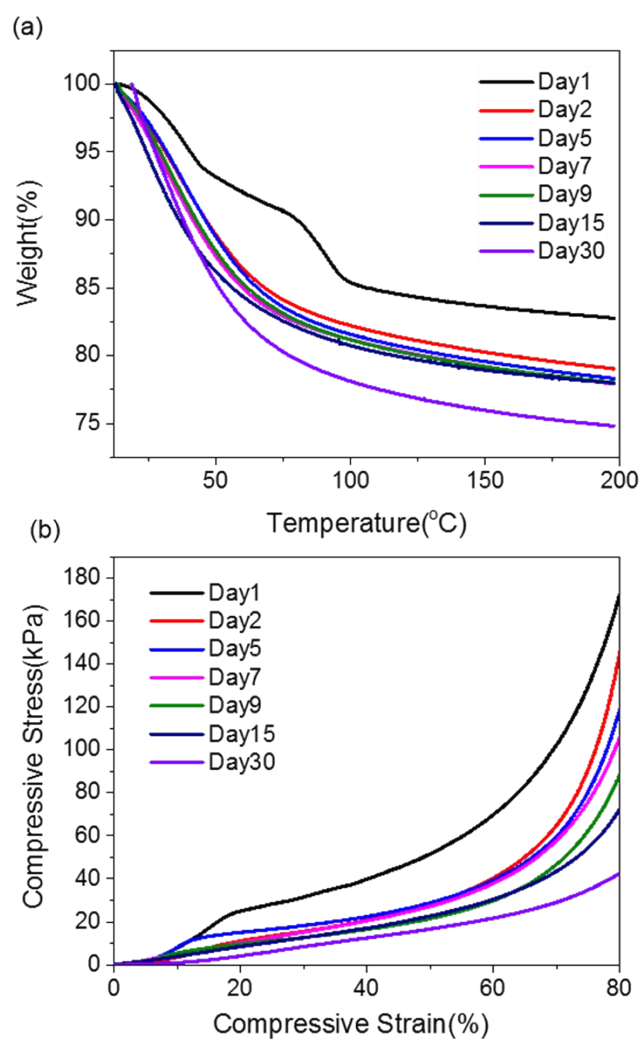


Fig. S2. Effects of the moisture content on mechanical properties of algininate-nanoclay aerogels (a) TGA curves and (b) Compressive stress-strain curves.

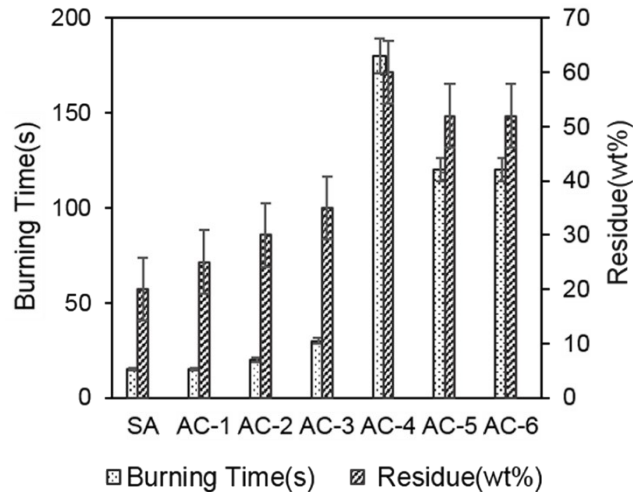


Fig. S3. Burning time measured from butane flame test and residue amount at the end of test. For AC-4 aerogel, a burning time of 180 s, which is the maximal duration of burning test of this work, is given, but this aerogel did not collapse even after a longer exposure to flame.

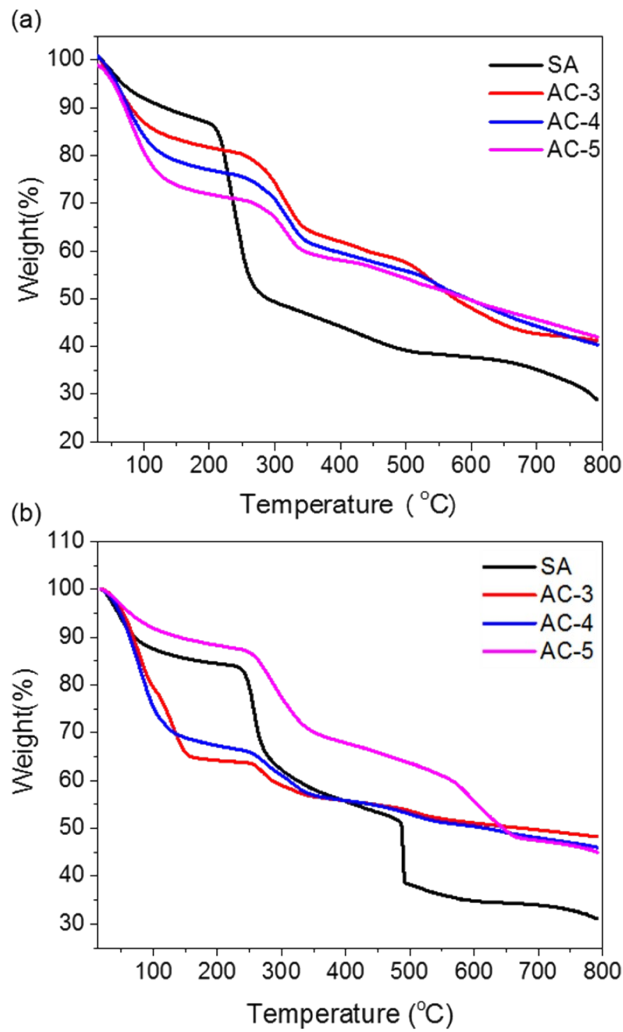


Fig. S4. TGA curves of SA and AC aerogels in Argon (a) and Air (b).

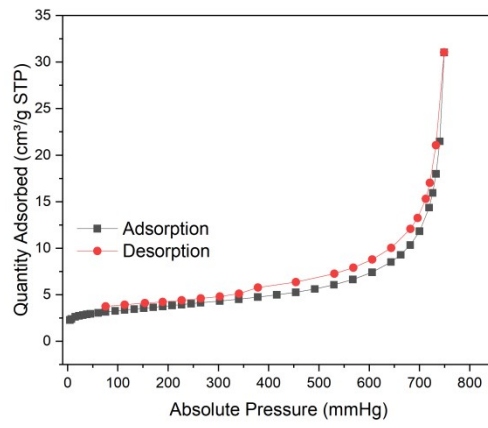


Fig. S5. N₂ adsorption/desorption curves of AC-4 aerogels



Fig. S6 SA aerogel (2%) thermal image (heating after 90S)

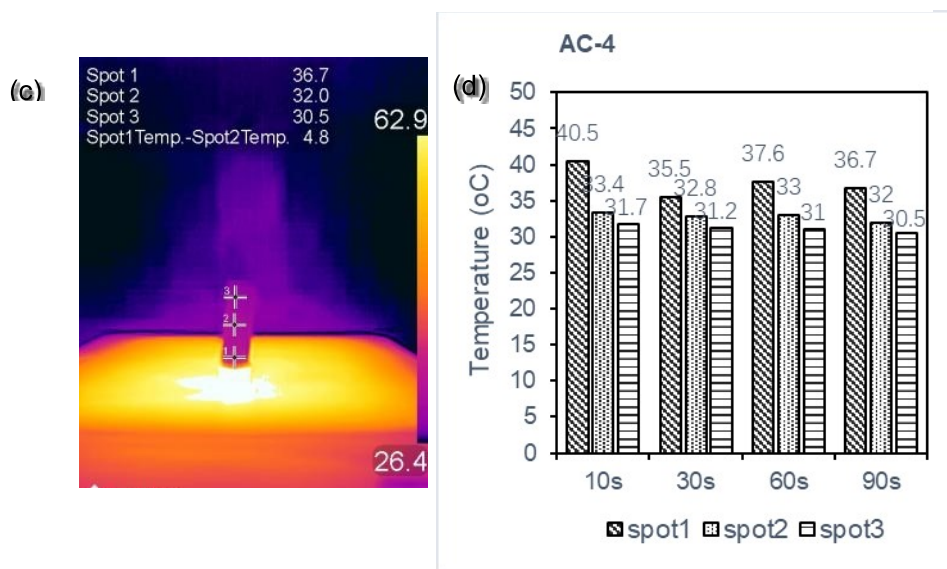
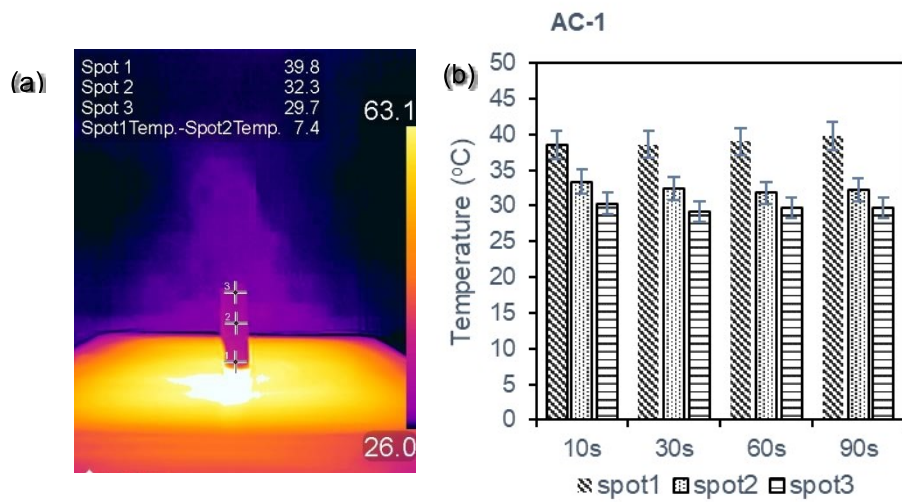


Fig. S7. Temperature changes of AC aerogels in longitudinal direction during heating for different time (a,b) AC-1 and (c,d) AC-4.