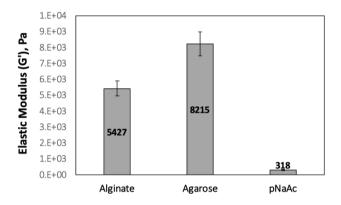
## Role of nanoparticle-polymer interactions on the development of double-network hydrogel nanocomposites with high mechanical strength

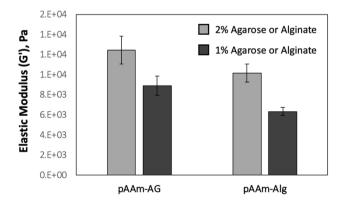
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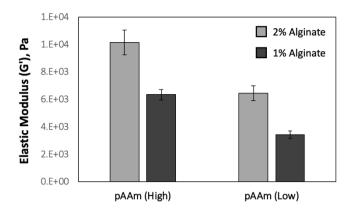
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**Figure S1.** Elastic moduli of neat alginate, agarose, and pNaAc hydrogels prepared using 2% monomer. Data shown are the mean of triplicate measurements ± standard deviation and have been repeated at least three times with similar results.



**Figure S2.** Elastic moduli of pAAm-agarose (pAAM-AG) and pAAM-alginate (pAAM-Alg) hydrogels, prepared using 5% pAAM and 2% (light grey bars) or 1% (dark grey bars) second polymer (agarose or alginate). Data shown are the mean of triplicate measurements plus standard deviation and have been repeated at least three times with similar results.



**Figure S3.** Elastic moduli of pAAM-alginate hydrogels, prepared using 5% (High) or 2.5% (Low) pAAm and 2% (light grey bars) or 1% (dark grey bars) alginate. Data shown are the mean of triplicate measurements plus standard deviation and have been repeated at least three times with similar results.