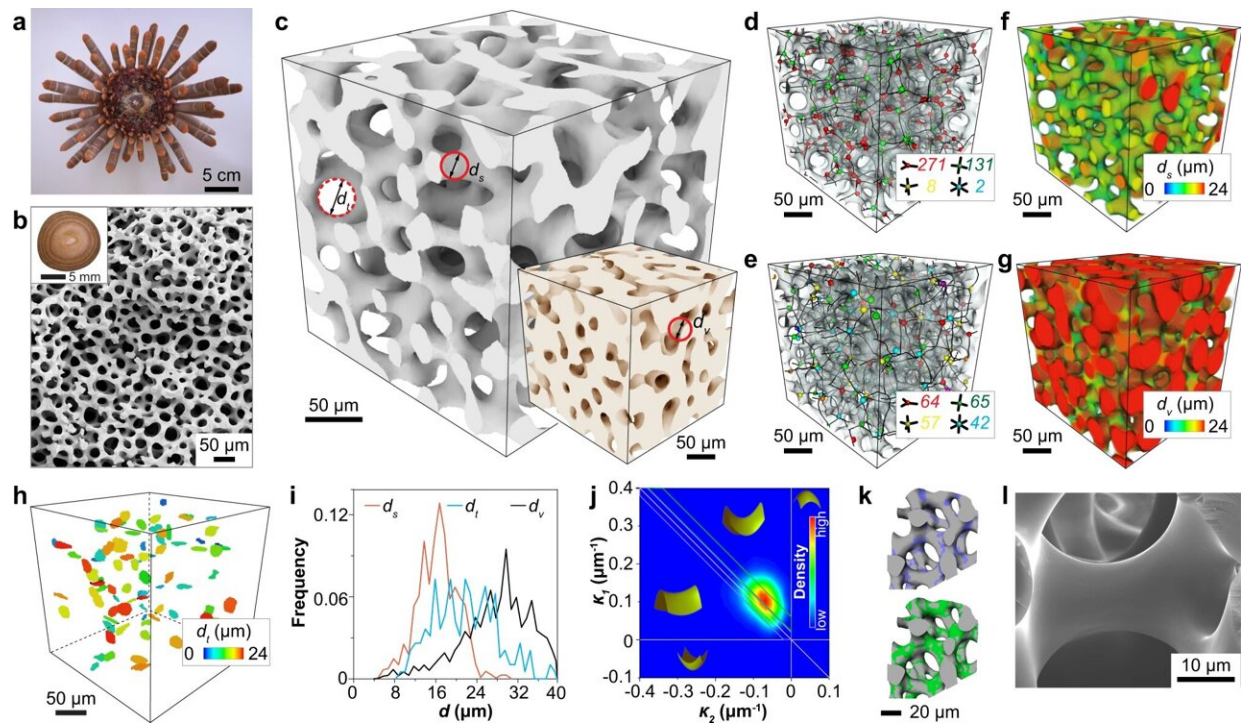


Looking to sea urchins for stronger ceramic foams

October 28 2022



Echinoderm stereom as a bicontinuous cellular solid. **a** Photograph of a ventral-viewed sea urchin *H. mamillatus*. **b** SEM image of the stereom structure. Inset, optical image of the transverse cross section of a spine. **c** μ -CT reconstructions of stereom and the corresponding void structure (inset). d_s , d_v , and d_t represent the thicknesses (diameters) of stereom, void structure, and throats, respectively. **d**, **e** 3D cellular network of stereom and the corresponding void structure with node types colored by their connectivities. **f**, **g** The thickness distributions of stereom (d_s) and the corresponding void structure (d_v). **h** 3D rendering of small throats (d_t)

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