

Contributions

- First physical device using stimuli-responsive soft voxels
- Structures with diverse functions
- Compatible with materials other than hydrogels

Novel Mixed
Solvent Hydrogel
Synthesis

Time to Swell: 60 min

Over 25X faster

Time to swell:

2.4 min

Photopolymerized
Time to swell:

2.4 min

- Quantitative comparison of photo and thermal polymerization
- Facile one-step process: easier for roboticists to use
- Tunable material properties

