

Supporting Information

Locally controlling dynamic exchange reactions in 3D printed thiol-acrylate vitrimers using dual-wavelength digital light processing

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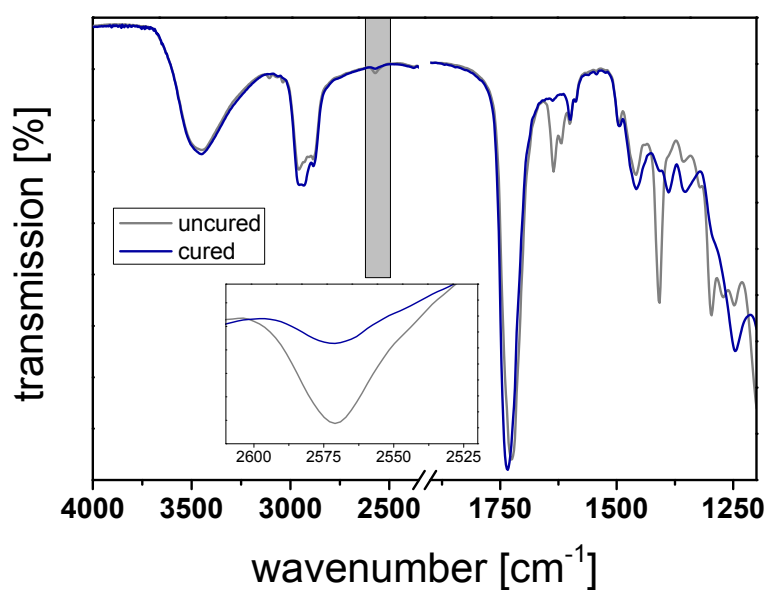


Figure S1 - FTIR spectra of resin-ER-1-lat prior to and after photocuring at 405 nm (3.6 mW cm⁻²).

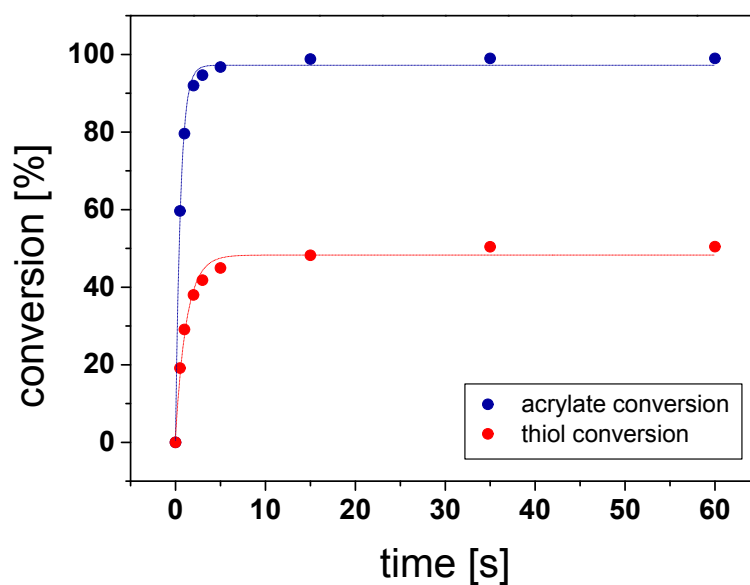


Figure S2 – Monitoring the conversion of acrylate and thiol groups in resin-ER-1-lat by FT-IR spectroscopy versus exposure time. Light exposure was carried out at 405 nm (3.6 mW cm⁻²). The lines are a guide for the eye.

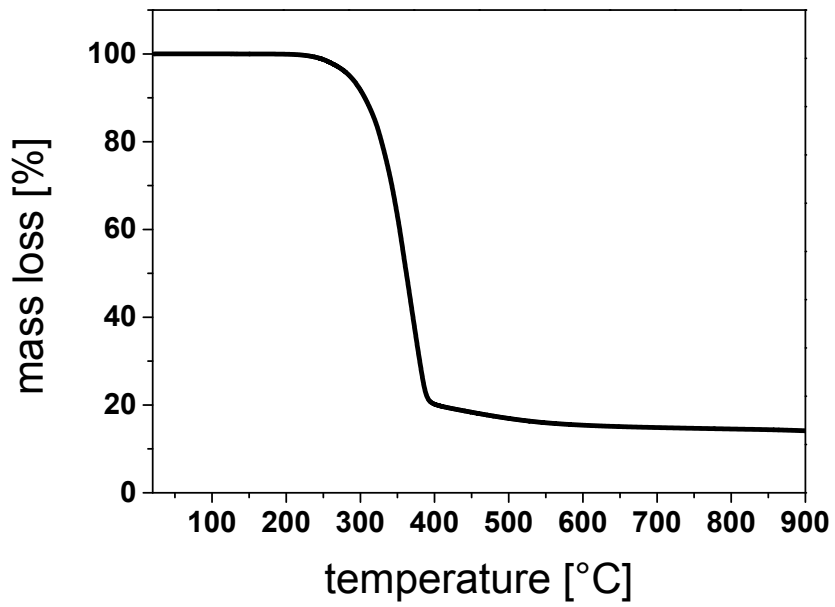


Figure S3 - TGA curve of cured resin-ER-1-lat.

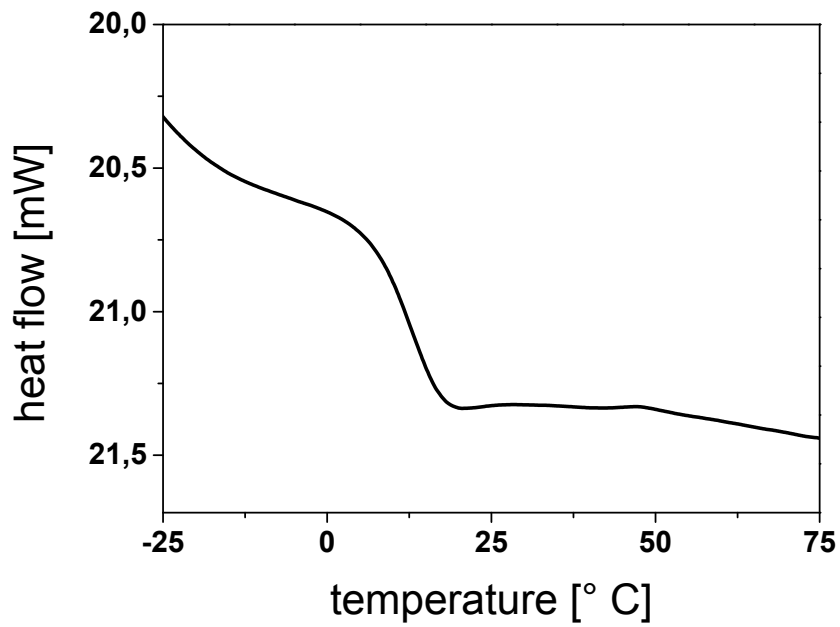


Figure S4 - DSC curve of cured resin-ER-1-lat.



Building area	67.2 x 37.8 x 130.0 mm
Intensity 405 nm	30 mW/cm ²
Intensity 365 nm	8 mW/cm ²
Max. filling	400 ml
Layer thickness	25-200 μm
Max. heating	80 °C

Figure S5 – Photograph of the dual-wavelength DLP 3D-printer prototype (with 405 and 365 nm light sources) from way2production and additional technical specifications of the prototype.