

Showcasing research from Professor Jeff Bates's laboratory, Department of Materials Science & Engineering, University of Utah, Salt Lake City, Utah, USA.

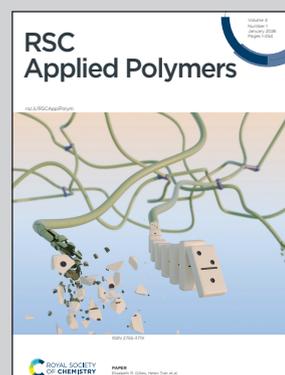
Cost-effective BioInk design *via* additive tuning: a cross-platform strategy for 3D bioprinting

This research presents a cost-effective strategy for designing 3D printing BioInks by tuning additives in polyethylene glycol diacrylate-based formulations. The study demonstrates how changing molecular weights and incorporating diverse photo-initiators and rheological modifiers enables customizable mechanical and optical properties across stereolithography, DLP, and extrusion platforms. Results show significant cost reductions—up to 65%—compared to commercial controls, while maintaining biocompatibility and print fidelity for additive manufacturing.

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See Jeffrey Bates *et al.*, *RSC Appl. Polym.*, 2026, **4**, 218.