## Quantitative Characterization of Liquid Photosensitive Bioink Properties for Continuous Digital Light Processing Based Printing

## Yang Li\*<sup>1,2,3</sup>, Yue Wang\*<sup>4</sup>, Jun Yin<sup>3</sup>, Jin Qian<sup>1,2</sup>

<sup>1</sup>School of Aeronautics and Astronautics, Zhejiang University <sup>2</sup>Department of Engineering Mechanics, Key Laboratory of Soft Machines and Smart Devices of Zhejiang Province, Zhejiang University <sup>3</sup>The State Key Laboratory of Fluid Power and Mechatronic Systems, School of Mechanical Engineering, Zhejiang University <sup>4</sup>Institute of Artificial Intelligence, School of Future Technology, Shanghai University

\*These authors contributed equally

Corresponding Author	Citation		
Jin Qian	Li, Y., Wang, Y., Yin, J., Qian, J. Quantitative Characterization of Liquid Photosensitive		
jqian@zju.edu.cn	Bioink Properties for Continuous Digital Light Processing Based Printing. J. Vis. Exp. (194),		
	e65277, doi:10.3791/65277 (2023).		
Date Published	DOI URL		

10.3791/65277

iove.com/video/65277

April 14, 2023

## **Materials**

Name	Company	Catalog Number	Comments
Brilliant Blue	Aladdin (Shanghai, China).	6104-59-2	
DLP software	Creation Workshop	N/A	
Lithium phenyl-2,4,6- trimethylbenzoylphosphinate		N/A	LAP; synthesized
Light source	OmniCure	https://www.excelitas.com/product- category/omnicure-s-series-lamp- spot-uv-curing-systems	365 nm
Polyethylene (glycol) diacrylate	Sigma-Aldrich	455008	PEGDA Mw ~700
Rheometer	Anton Paar, Austria	MCR302	