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OTHER INFORMATION

KEYWORDS

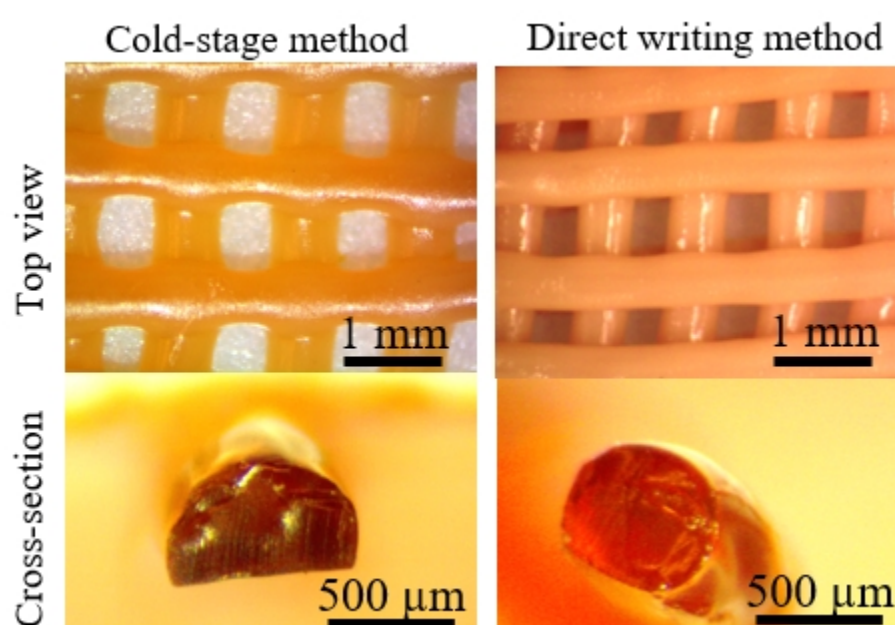
hydrogel, hyaluronic acid, 3D printing,
tissue repair, drug delivery,
biocompatible bioink, 3D culture

CATEGORIZED AS

- ▶ **Medical**
 - ▶ Delivery Systems
 - ▶ Devices
- ▶ **Research Tools**
 - ▶ Other

RELATED CASES

2021-811-0



better structural integrity and stability.

► This technology enables hydrogels to be used as biocompatible bioink free of toxicity concern and foreign functional groups for 3DP of organs, tissues, or scaffolds.

- ▶ This technology may be used for the treatment of aneurysm, wound healing, drug and cell delivery, in-situ tissue defect filling/repairing, and as tissue substitutes
- ▶ This technology enables 3DP of hydrogels to be biocompatible for 3D cell culture, and tissue/organ culture.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Published Application	20220204802	06/30/2022	2021-811

RELATED MATERIALS

- ▶ [Xu, C.; Hung, C.; Cao, Y.; Liu, H. H. Tunable crosslinking, reversible phase transition, and 3D printing of hyaluronic acid hydrogels via dynamic coordination of innate carboxyl groups and metallic ions. ACS Applied Bio Materials 2021, doi.org/10.1021/acsabm.0c01300. - 02/15/2021](#)

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