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Title: Dynamic Mechanical and Swelling Properties of Maleated Hyaluronic Acid Hydrogels

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1 Highlights (for review)

- 2 · A novel hyaluronic acid modification method was developed.
- 3 · The degree of substitution of the novel derivative, maleated hyaluronic acid
- 4 (MaHA) is much higher than that of the methacrylated hyaluronic acid (MeHA)
- 5 reported in the literature.
- 6 · The photopolymerized hydrogels of MaHA have higher compressive storage
- 7 moduli than those of MeHA.
- 8 · The crosslinking density and hydrophilicity of the introduced groups on HA
- 9 molecule affect the swelling behavior of hydrogels.

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