OAK RIDGE NATIONAL LABORATORY
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Methods and Materials for Room Temperature Polymer Additive Manufacturing

Disclosure Number

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Technology Summary

The invention relates to additive manufacturing and more specifically to materials and methods for producing articles at room temperature. The deposition of inventive polymers enables 3D parts to be manufactured without the need of an oven or heated bed. Furthermore, these materials exhibit greater strength and stiffness in comparison to their unfilled counterpart materials. The ability to manufacture at room temperature enables the integration of sensors, actuators, batteries within the part during its manufacture while saving energy during the build process.

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