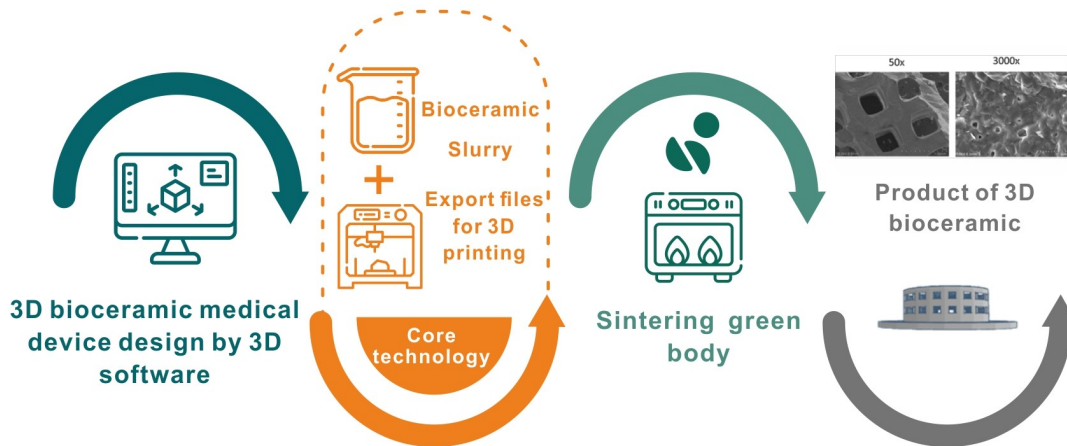


3D Printing of Ceramic Biomaterials

Technology Overview

In general, 3D photo-curing printed bio-ceramic application could not meet the expectations of mechanical properties of printed objects. By admixing a combustible reverse negative thermoresponsive hydrogel (poly(N-isopropylacrylamide)-based), this problem can be solved.

Sintering densification is expected via free volume contraction, which will increase the mechanical properties after the formation of the porous bio-ceramics. These bio-ceramic devices could offer additional benefits for bone or prosthodontics. This photo-curing technology seeks to facilitate the fabrication of more precise and complex shapes using 3D printing of ceramic know-how.



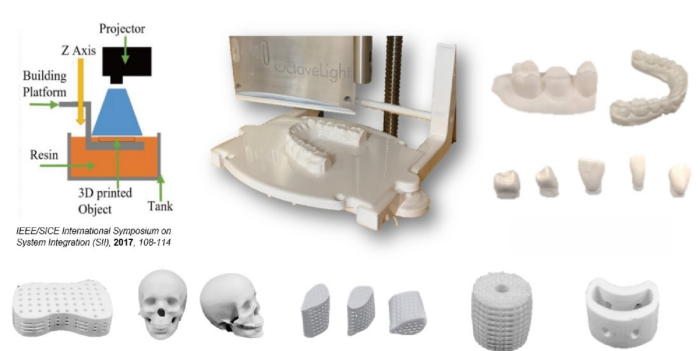
Benefits and Applications

3D printed biodegradable bioceramicscaffolds is customized on shape, porosity, pore connectivity and material, such as the following

Robo Casting



Top-down DLP



Key Patents

TWI411595, I611892, I712486 | US8940203, 15/780,643
JP 6676245 | EP 3385057 | CN 4274912 | PCT /CN2020/073381

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