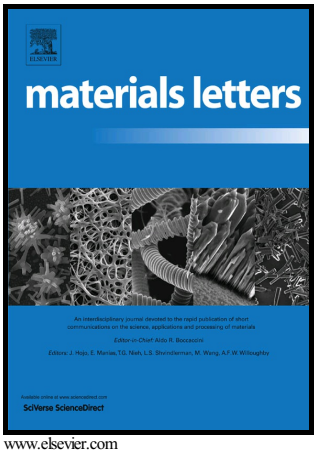




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Md. Shariful Islam, Mitsugu Todo

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# Effects of Sintering Temperature on the Compressive Mechanical Properties of Collagen/Hydroxyapatite Composite Scaffolds for Bone Tissue Engineering

Md. Shariful Islam[1, 2] and Mitsugu Todo[1*]

[1]Research Institute for Applied Mechanics, Kyushu University, Kasuga, Fukuoka 816-8580, Japan.

[2]Department of Animal Husbandry and Veterinary Science, University of Rajshahi, Rajshahi-6205, Bangladesh.

*Corresponding author:

Mitsugu Todo, Associate Professor

Research Institute for Applied Mechanics, Kyushu University, Kasuga, Fukuoka 816-8580, Japan. Tel & Fax: +81- 092-583-7762, E-mail: todo@riam.kyushu-u.ac.jp



Abstract

Hydroxyapatite (HA) porous scaffolds were prepared by a template method and fabricated using either collagen (COL) or COL/HA particles. The sintering temperature was varied to discover the sintering effects on the mechanical properties of the scaffold. It was found that fabrication of pure HA scaffolds with COL or COL/HA particles introduced a distinct layer or phase, causing the fabricated scaffolds to be strengthened and their