

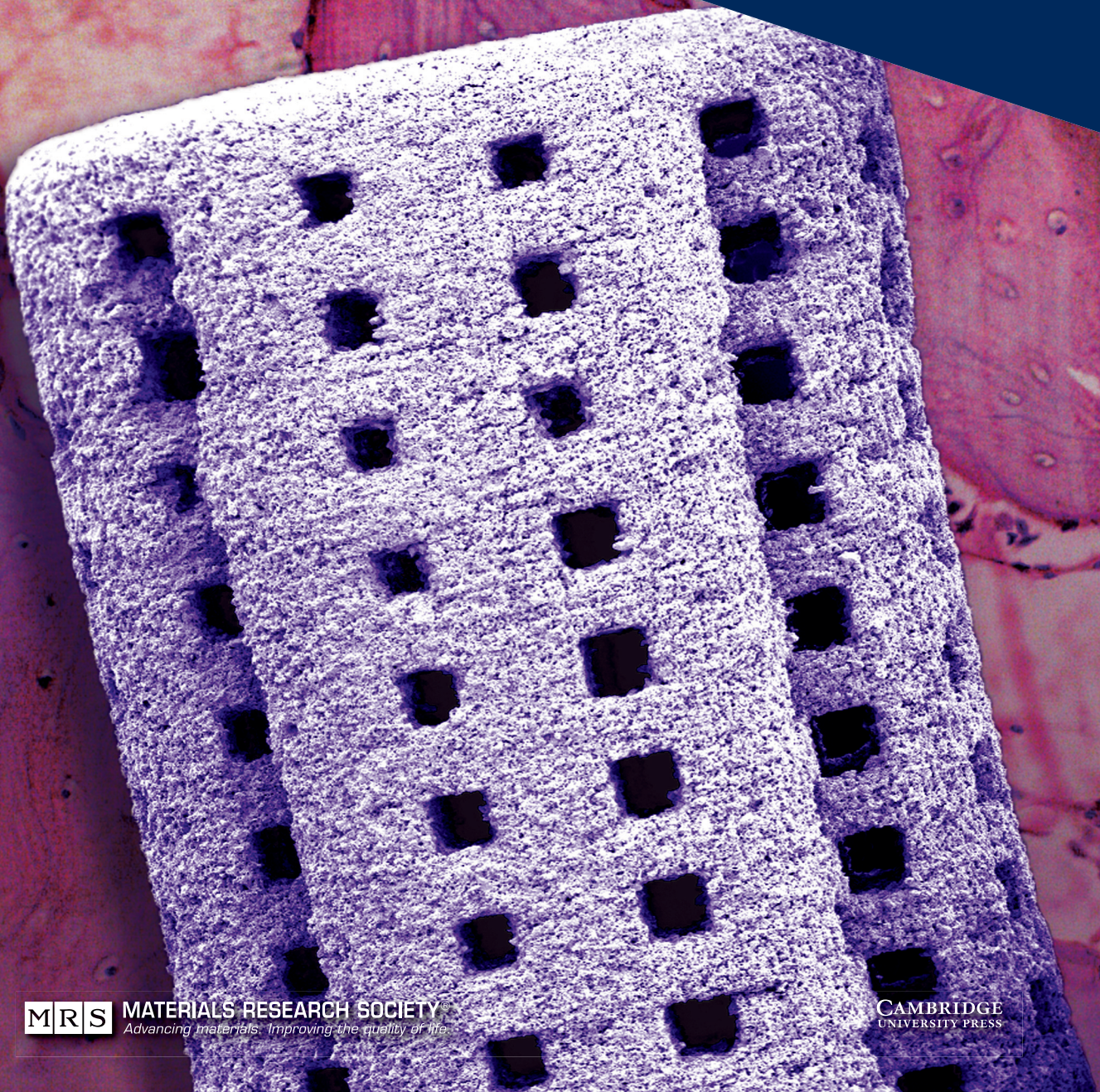


Journal of  
MATERIALS RESEARCH

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FOCUS ISSUE

**3D Printing of Biomaterials**



# Journal of MATERIALS RESEARCH

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1937–1938 Introduction

Susmita Bose,  
Amit Bandyopadhyay

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1939–1947 **3D-printed  $\beta$ -TCP bone tissue engineering scaffolds: Effects of chemistry on in vivo biological properties in a rabbit tibia model**

Samit Kumar Nandi, Gary Fielding,  
Dishary Banerjee,  
Amit Bandyopadhyay,  
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1948–1959 **Systematic characterization of 3D-printed PCL/ $\beta$ -TCP scaffolds for biomedical devices and bone tissue engineering: Influence of composition and porosity**

Arnaud Bruyas, Frank Lou,  
Alexander M. Stahl,  
Michael Gardner, William Maloney,  
Stuart Goodman,  
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## ARTICLE

1960–1971 **Bioactive glass-ceramic scaffolds by additive manufacturing and sinter-crystallization of fine glass powders**

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1972–1986 **3D printing of poly( $\epsilon$ -caprolactone)/poly(D,L-lactide-co-glycolide)/hydroxyapatite composite constructs for bone tissue engineering**

Kazim K. Moncal, Dong N. Heo,  
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1987–1998 **Post-process composition and biological responses of laser sintered PMMA and  $\beta$ -TCP composites**

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1999–2011 **Electrohydrodynamic-jetting (EHD-jet) 3D-printed functionally graded scaffolds for tissue engineering applications**

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2012–2018 **Generation of cell-laden hydrogel microspheres using 3D printing-enabled microfluidics**

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Rafael Ramos,  
Stephen W. Sawyer,  
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2019–2028 **Single-pot biofabrication of living fibers for tissue engineering applications**

Paulomi Ghosh,  
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2029–2039 **Alginate-honey bioinks with improved cell responses for applications as bioprinted tissue engineered constructs**

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2052–2061 **Nanostructured resorcinol-formaldehyde ink for 3D direct writing**

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2077–2086 **Influence of simultaneous addition of carbon nanotubes and calcium phosphate on wear resistance of 3D-printed Ti6Al4V**

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2087–2095 **Synthesis, characterization, and bioactivity of SrTiO<sub>3</sub>-incorporated titanium coating**

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2096–2105 **Thermally oxidized electron beam melted  $\gamma$ -TiAl: In vitro wear, corrosion, and biocompatibility properties**

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2106–2117 **In vivo bone regeneration analysis of trilayer coated 316L stainless steel implant in rabbit model**

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Samit Kumar Nandi, Piyali Basak,  
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