

Table of Contents

Preface

Physico-Chemical Properties and Characterization of CaO-Fe₂O₃-P₂O₅ Glass as a Bioactive Ceramic Material

M.R. Majhi, R. Kumar, S.P. Singh and R. Pyare 1

Biodegradable Magnesium Alloys: A Review of Material Development and Applications

D. Persaud-Sharma and A. McGoron 25

Effect of Biomimetic Nanocrystalline Apatite Surface on Bone Ingrowth

J. Gelber, J.C. Hermida, S. Patil, C.W. Colwell and D.D. D'Lima 41

Synthesis and Characterization of Sol-Gel Derived Hydroxyapatite-Bioglass Composite Nanopowders for Biomedical Applications

S. Adibnia, A. Nemati, M.H. Fathi and S. Baghshahi 51

Tooth Tissue Engineering: Potential and Pitfalls

S. Gupta, C. Sharma, A.K. Dinda, A.K. Ray and N.C. Mishra 59

Finite Element Modelling of Rheological Property of Curing PMMA Bone Cement. Part 1 - Effect of Prosthesis Insertion Velocity

M.M. Rahman, A.G. Olabi and M.S.J. Hashmi 83

An Investigation of the Carriage Rate of Methicillin-Resistant *Staphylococcus aureus* in Pigs in the Western Province of Vietnam

T.D.T. Vo, A.D. Mai Huynh, H.T. Ngo, D.T. Nguyen and T.M.T. Tran 91