

Table of Contents

Preface

Chapter 1: Biomaterials

Powder Bed Fusion of Biomedical Co-Cr-Mo and Ti-6Al-4V Alloys: Microstructure and Mechanical Properties

E. Santecchia, P. Mengucci, A. Gatto, E. Bassoli, L. Denti, B. Rutkowski, A. Czyrska-Filemonowicz and G. Barucca 3

PVA and PVP Hydrogel Blends for Wound Dressing: Synthesis and Characterisation

M. Muresan-Pop, K. Magyari and A. Vulpoi 9

Chapter 2: Building and Structural Materials, Waste Recycling

Chemical Activation of Dicalcium Silicate and its Use for Cement Production

T. Staněk, M. Boháč and P. Sulovský 17

Early Hydration of Activated Belite-Rich Cement

M. Boháč, T. Staněk, A. Zezulová, A. Rybová, D. Kubátová and R. Novotný 23

Regeneration of Waste Diatomite from Palm Oil Production Process as a Support Material for PCMs in Thermal Energy Storage in Buildings

K. Acurio, A. Chico-Proano, J. Martínez-Gómez and M. Orozco 29

Structural Characterization of Immobilized Waste Forms Containing Secondary Waste from the Liquid Radioactive Waste Treatment

L. Ionascu, M. Nicu and F. Dragolici 35

Mechanical Properties of New Sustainable Polymeric Formulations for Rotomoulding Processes

A. Martínez-García, A. Ibáñez-García and F.J. Varela-Gandía 41

En Wear-Resisting Properties of Epoxy/WC-Co/Al Coating on 300M Steel

F. Ding, S.Q. Li, P.Z. Zhang, D.B. Wei, X.H. Chen and S.Y. Wang 47