Contents

Material Properties

Andreas Himmelsbach, Tobias Standau, Johannes Meuchelböck, Volker Altstädt and Holger Ruckdäschel
Approach to quantify the resistance of polymeric foams against thermal load under compression — 277

Mirjam Leskovšek, Jože Kortnik, Ursa Stankovič Elesini and Boštjan Šumiga
Characterisation of melamine formaldehyde microspheres synthesised with prolonged microencapsulated reaction time — 288

Anuradha Mahanty and Deep Shikha
Changes in the morphology, mechanical strength and biocompatibility of polymer and metal/polymer fabricated hydroxyapatite for orthopaedic implants: a review — 298

Farhad Sadeghi, Jose Luis Rodriguez and Craig Bonsignore
Structure and mechanical properties of a multilayer biomedical shaft tubing: effect of layer composition — 323

Preparation and Assembly

Ying Yong Jiang, Liang Ren, Gui Hui Wu, Wei Guo, Xian Feng Guan, Ming Yao Zhang and Hui Xuan Zhang
An environmentally sustainable isosorbide-based plasticizer for biodegradable poly(butylene succinate) — 331

Yashu He, Zhenyang Wang, Fengyu Wen, Igor S. Sirotin, Jianxin Mu and Vyacheslav V. Kireev
MMA-based fast-curing repair materials suitable for low-temperature application — 343

Engineering and Processing

Mei Ai Tan, Cheow Keat Yeoh, Pei Leng Teh, Nor Azura Abdul Rahim, Cheah Chie Song and Nor Shahira Shahkila Mansor
Effect of combination printing parameter (infill density and raster angle) on the mechanical and electrical properties of 3D printed PLA/ZnO and cPLA/ZnO composites — 351

Wei Zhang, Tang-qing Kuang, He-sheng Liu, Jia-mei Lai, Ji-kai Han, Qing-song Jiang and Zhi-hui Wan
Improved process moldability and part quality of short-glass–fiber-reinforced polypropylene via overflow short-shot water-assisted injection molding — 362

Louise Pick, Paul R. Hanna and Luke Gorman
Assessment of processibility and properties of raw post-consumer waste polyethylene in the rotational moulding process — 374