

Special Issue

Sustainable Materials and Technologies for Drug Delivery and Tissue Engineering

Message from the Guest Editors

The aim of this Special Issue is to gather latest studies which creatively combine classic concepts of materials processing with those of waste management, leading to sustainable tissue engineering. The majority of current technologies for drug delivery systems and tissue regeneration involves synthetic materials, with no biological activity, which already proved to be “biologically safe” but, unfortunately, are highly unlikely to succeed in the long term. Prospective alternatives should be based on active, biomimetic templates which can biologically and mechanically participate in the stimulation of tissue regeneration. Sustainable materials for drug delivery and tissue regeneration can be easily obtained by the conversion of biogenic waste with chemical value into valuable materials. Their low cost, high availability, and non-toxic nature recommend them for this kind of application, reducing at the same time the pollution generated by the accumulation of such industrial byproducts.

Guest Editors

Dr. Ionela Andreea Neacsu

Department of Science and Engineering of Oxide Materials and Nanomaterials, University Politehnica of Bucharest, 011061 Bucharest, Romania

Dr. Bogdan Stefan Vasile

Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, 060042 Bucharest, Romania

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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