Special Issue

Non-destructive Evaluation and Analysis of Materials after Manufacturing

Message from the Guest Editors

The present time brings ever-increasing demands for quality and functionality of components also in industry. Surface integrity is a broad term that includes a wide range of material properties. Thorough knowledge of the mentioned properties of materials and their surfaces after manufacturing is one of the important prerequisites for guaranteeing the quality of the product. Quality requirements are justified for each product, but especially where there are increased demands on functional properties, e.g., automotive, aerospace, bearing industries, and medical, too. Based on these facts and also efforts for continuous progress, it is necessary to look for such methods of evaluation and analysis of materials that will quickly and effectively determine the current state of materials and surfaces of components after production. The focus of this Special Issue is therefore primarily on (but not limited to) non-destructive methods for the evaluation and analysis of materials, their surfaces and functional and utility properties using the various technologies used in the manufacturing process.

Guest Editors

Prof. Dr. Andrej Czán

Department of Machining and Manufacturing Technology, University of Zilina, Zilina, Slovakia

Dr. Michal Šajgalík

Department of Machining and Manufacturing Technology, University of Zilina, Zilina, Slovakia

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

mdpi.com/journal/materials

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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