

Special Issue

Application of Wood-Based Composites

Message from the Guest Editors

The hierarchical, porous, and macromolecular structures of wood provide opportunities for it to be modified and processed into structural, functional, and multi-functional material. Wood composites are made from various wood or ligno-cellulosic non-wood materials that are bonded together using either natural bonding or synthetic resin (e.g., thermoplastic or duroplastic polymers), or organic (e.g., plastics) and inorganic binders (e.g., cement). This product mix ranges from panel products (e.g., plywood, particleboard, strandboard, or fiberboard) to engineered timber substitutes (e.g., laminated veneer lumber or structural composite lumber). These composites are used for a number of structural and non-structural applications in product lines ranging from interior to exterior applications (e.g., furniture and architectural trims in buildings). Wood composite materials can be engineered to meet a range of specific properties. The proper selection of wood materials and processing variables can provide high performance and reliable service. Accordingly, this Special Issue aims to investigate innovation in functional wood-based composite for high-performance applications.

Guest Editors

Dr. Xushen Han

Dr. Xiaoshuai Han

Dr. Yanyan Dong

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

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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