

New Challenges in Wood Adhesives and Coatings

Guest Editor:

Dr. Benedetto Pizzo

National Research Council of
Italy, Institute of BioEconomy
(IBE, CNR), Via Madonna del
Piano N.10, 50019 Sesto
Fiorentino, FI, Italy

Deadline for manuscript
submissions:

closed (28 February 2022)

Message from the Guest Editor

Adhesives and coatings applied to wood products have several similarities, including the nature of their interactions with the support; most chemical moieties of the constituting polymers; new constraints requiring the reduction of human and environmental toxicity; the growing interest in the use of sustainable raw materials to replace petrochemical products; the use of bio-based resources to re-think the use of synthetic chemicals, etc.

Of course, both wood adhesives and coatings also have unique properties, and topics related to these are also welcome in the Special Issue. They include, for instance, the use of lignin or carbohydrates in formulations, the research for alternative co-reactants in vegetable proteins, the gluing of hardwoods for structural uses, the development of exterior-grade adhesives and glued wood products (e.g., CLT) in the case of wood adhesives, and the development of new transparent stains or varnishes in outdoor applications, the progress of radiation-curable (e.g., UV, EB, visible light) resins for clear matte coatings and systems, the innovative drying of shellacs and lacquers in the case of wood coatings.



Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Materials Science, Coatings & Films*) / CiteScore - Q2 (*Surfaces and Interfaces*)

Contact Us

Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI