

Special Issue

Advances in Dissimilar Metal Joining and Welding

Message from the Guest Editors

Journal of Manufacturing and Materials Processing presents a Special Issue focused on dissimilar metal joining and welding. This Special Issue examines the latest advancements and practical implications in joining different metals, metal polymer joints, and metal composite joints, crucial across industries like the automotive, aerospace, and electronics industries. Contributors explore diverse methods, including friction stir welding, laser welding, ultrasonic welding, and adhesive bonding, tackling issues such as metallurgical compatibility, thermal management, and joint integrity. Through experimental manufacturing trials, material and joint mechanical characterization, numerical modeling, and advanced experimental characterization of dissimilar joints and structures, this Special Issue fosters scientific discourse and practical insights essential for developing efficient and sustainable dissimilar metal joining techniques. It serves as a platform to bridge theoretical understanding with real-world applications, facilitating the advancement of manufacturing technologies and materials science.

Guest Editors

Dr. Daniel F.O. Braga

Institute of Science and Innovation in Mechanical and Industrial Engineering (INEGI), University of Porto, 4200-465 Porto, Portugal

Dr. Sérgio Tavares

Department of Mechanical Engineering, Faculty of Engineering, University of Porto, 4200-465 Porto, Portugal

Deadline for manuscript submissions

closed (30 June 2025)



Journal of Manufacturing and Materials Processing

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 5.7



mdpi.com/si/196698

Journal of Manufacturing and Materials Processing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmmp@mdpi.com

mdpi.com/journal/jmmp





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About the Journal

Message from the Editor-in-Chief

Journal of Manufacturing and Materials Processing (JMMP) (ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP*.

Editor-in-Chief

Prof. Dr. Steven Y. Liang
George W. Woodruff School of Mechanical Engineering, Georgia
Institute of Technology, Atlanta, GA 30332-0405, USA

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