

Special Issue

Experimental and Numerical Characterization of Adhesively Bonded Joint: From Mechanical Properties to New Fields of Application

Message from the Guest Editors

Structural adhesives are high-strength materials specifically formulated to bond dissimilar elements such as metals, composites, and plastics, offering numerous advantages in modern manufacturing and construction and providing strong, durable, and versatile bonding solutions in various applications, including aerospace, automotive, construction, and manufacturing, where strong and durable bonds are essential features. This Special Issue will focus on advancing our shared knowledge of the use of structural adhesives from numerical and experimental perspectives, including the study of mechanical properties, durability, fatigue, repair, recycling, interfacial interactions, surface chemistry, test methods, new adhesive materials, sealants, joint design, manufacturing technology, theoretical models, analytical models, finite element models, analysis, and new areas of application. We invite you to submit a manuscript for this Special Issue. Original research articles and reviews related to any of the above topics are welcome.

Guest Editors

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Message from the Editorial Board

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.

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