



Non-conventional Machining and Machinability of Composites

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Message from the Guest Editors

Application of various composites is rapidly increasing. The wide use of composites can be attributed to their outstanding inherent properties. In subtractive manufacturing technology, the machining process is very indispensable. Importantly, this process attracts some associated machining-induced damage (MID) responses.

Moreover, there is some associated MID on composites that are not well pronounced in other engineering materials. Therefore, non-conventional machining (NCM) was introduced to eliminate the aforementioned MID responses. NCM techniques include the following types:

- Electron beam machining (EBM)
- Abrasive/waterjet machining (A/WJM)
- Ultrasonically-assisted machining (UAM)
- Laser beam machining (LBM)
- Electrical/Electron discharge machining (EDM)
- Electrochemical machining (ECM) and
- Other non-traditional/conventional machining processes (NCM)

Importantly, it is expected that NCM will become a key feature of future machining of various types of composites. The aim of this Special Issue is to follow the state-of-the-art of evolution of NCM, and identify new challenges and ways forward for future research.





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Message from the Editor-in-Chief

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