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Application of Composite Materials in Additive Manufacturing

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Message from the Guest Editor

The scientific background of composite materials in additive manufacturing encompasses various disciplines, including materials science, mechanical engineering, and chemistry. Combining materials such as polymers, metals, ceramics, and fibres in a single manufacturing process allows for optimising properties tailored to specific applications. For example, using carbon fibre-reinforced polymers (CFRPs) in 3D printing has shown significant improvements in the strength-to-weight ratio, making them ideal for aerospace and automotive applications where weight reduction is critical.

The aim of this Special Issue is to provide a comprehensive platform for disseminating pioneering research and advancements in integrating composite materials with additive manufacturing technologies. This Special Issue seeks to gather original research articles and reviews that explore innovative methodologies, material developments, and applications of composite materials in 3D printing. We aim to address the current challenges, uncover potential opportunities, and highlight the transformative impact of composite materials on additive manufacturing processes.