



materials



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Advances in 3D-Printed Metamaterials

Guest Editor:

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Deadline for manuscript
submissions:

20 November 2024

Message from the Guest Editor

The advent of 3D printing technology has ushered in a new era of material design and engineering, particularly in the realm of metamaterials. Metamaterials are a class of artificial materials engineered to possess properties that are not found in nature. With the precision and versatility offered by 3D printing, the possibilities for designing and creating metamaterials have expanded exponentially. Unlike traditional materials, in which properties are limited by their chemical composition, 3D-printed metamaterials derive their properties from their intricate structure, including features such as interconnected struts, shells, plates, cavities, or combinations thereof. It is this intricate framework that bestows upon them an exceptional degree of design flexibility, adept at achieving specific physical properties in accordance with design objectives, and potentially giving rise to unprecedented properties that defy the traditional material behaviour.



mdpi.com/si/184827

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Message from the Editor-in-Chief

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