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Structure and Performance Based on SLM

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

LPBF (Laser powder bed fusion) is one of the most promising additive manufacturing technologies. It can directly fabricate metallic components with complicated geometries, especially with regard to the internal structure. Its digital characteristics enable it to manufacture lattice/porous structures to meet the requirements of the aerospace, medical, and other industries.

This Special Issue will focus on the design, manufacturing and mechanical behaviour of lattice/porous structures based on LPBF. More attention should be paid to the effect of the configuration, structural parameters and other influencing factors on the performance/property as well as the evaluation on their special stiffness, special strength, special energy absorption and other effective performances. Multifunctional lattice/porous structures are particularly of interest. Both experiments and modelling efforts are encouraged. Additionally, the bioinspired lattice/porous structure and its biomechanics and biocompatibility are of interest.

Dr. Dongyun Zhang
Guest Editor

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Message from the Editor-in-Chief

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