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Multifunctional Materials: Design, Synthesis and Properties

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editor

Dear Colleagues,

There is currently a need to integrate multiple functions into one material in order to meet the increasing demands of our technological society. For example, in the healthcare sector, the combination of antimicrobial activity, biocompatibility, wear resistance, wettability, and other surface properties is important. Multiple functions can be realized either in the bulk or on the surface. In the bulk, multiple functions can be tailored by combining different materials to make composites. To create multifunctional surfaces, different technologies for surface modification/treatment can be used, including mechanical or/and chemical methods, such as shot-peening, laser-texturing, and chemical functionalization. Multifunctional materials (MMs) have a diverse range of applications in such areas as medicine, aerospace, energy, and defense.

This Special Issue will cover fundamental concepts in MMs, the manufacture of MMs, the application of MMs, including for sensors, catalysis, energy storage, and biological and antimicrobial surfaces, and future research directions.

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Message from the Editor-in-Chief

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