



Sustainable Application of Advanced Material Surface Engineering

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Message from the Guest Editors

Advanced material surface engineering technology is an important research frontier in the field of the sustainable development of high-end manufacturing industry. It is one of the most important ways to reduce carbon emissions and improve the sustainable application cycle of materials globally. It can effectively save energy and materials, significantly improve the durability of components, and significantly expand the use function.

In the context of new development, surface engineering technologies, such as laser manufacturing, magnetron sputtering, chemical vapor deposition, and plasma spraying, continue to evolve and iterate. It is necessary to conduct in-depth research into the application effects and scientific significance of advanced material surface engineering technologies on different materials, as well as further promote the development of sustainable material technologies and theories represented by advanced material surface engineering technologies. The Special Issue's purpose is to promote the technological and theoretical development of advanced surface engineering technologies in sustainable applications, remanufacturing, and durability enhancement.





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