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This Special Issue explores the cutting-edge advancements in high-energy/nano/micro-manufacturing technologies, which are revolutionizing engineering practices. The focus is on the development of advanced materials and manufacturing techniques that leverage their unique properties to push the boundaries of scientific research and industrial applications. Key topics include novel manufacturing processes, post-processing technologies, the creation of functional and graded materials, as well as modeling, simulation, and intelligent control systems aimed at enhancing production quality and efficiency. This Issue is a comprehensive collection of recent work that will propel the global adoption of high-performance, high-functionality manufacturing technologies.



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