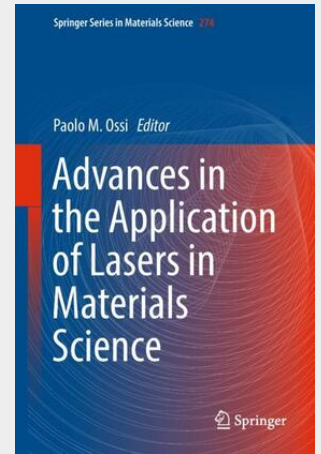


Ossi

Advances in the Application of Lasers in Materials Science

The book covers recent advances and progress in understanding both the fundamental science of lasers interactions in materials science, as well as a special emphasis on emerging applications enabled by the irradiation of materials by pulsed laser systems. The different chapters illustrate how, by careful control of the processing conditions, laser irradiation can result in efficient material synthesis, characterization, and fabrication at various length scales from atomically-thin 2D materials to microstructured periodic surface structures. This book serves as an excellent resource for all who employ lasers in materials science, spanning such different disciplines as photonics, photovoltaics, and sensing, to biomedical applications.

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