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Nota di contenuto	Experimental Investigation of Tribological Characterization of Bio-Nano-Lubricants -- Effect of Eu <sup>3+</sup> on the luminescence and photocatalytic properties of ZnS nanoparticles -- Buckling of stiffened carbon nanotube-reinforced composite (CNTRC) plates -- Experimental Investigation of Machining Parameters of Monel 400 in Powder Mixed EDM Process -- Synthesis of Estolides from Coconut, Sunflower and Karanja Oils -- Innovative methods for increasing the tool life of cutting tools in complex surface treatment -- Nano severe Plastic deformation process on Aluminum Alloy and composites an overview -- Review of Mechanized Garbage-Picking Machines: Challenges and Advancements in Sweeping and Handling of Trash -- Study of Leakage Currents in FinFet SRAM Cells -- Advanced Characterization of Estolides from Coconut, Sunflower and Karanja Oils -- Manufacturing of AISi10Cu2 Foam using Centrifugal Casting Route and LiAlH <sub>4</sub>

Foaming Agent -- Synthesis and characterization of nano CuO complexed HPMC:PVA polymer blend electrolytes -- Study on Effect of Pista Shell as Filler material on Mechanical Performance of Banana fiber Reinforced Polymer Composite.

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Sommario/riassunto

The book is a collection of best selected research papers presented at the 6th International Conference on Inventive Material Science Applications (ICIMA 2023) organized by PPG Institute of Technology, Coimbatore, India, during May 11–12, 2023. The book includes original research by material science researchers toward developing a compact and efficient functional elements and structures for micro-, nano-, and optoelectronic applications. The book covers important topics like nanomaterials and devices, optoelectronics, sustainable electronic materials, nanocomposites and nanostructures, hybrid electronic materials, medical electronics, computational material science, wearable electronic devices and models, and optical/nanosensors.

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