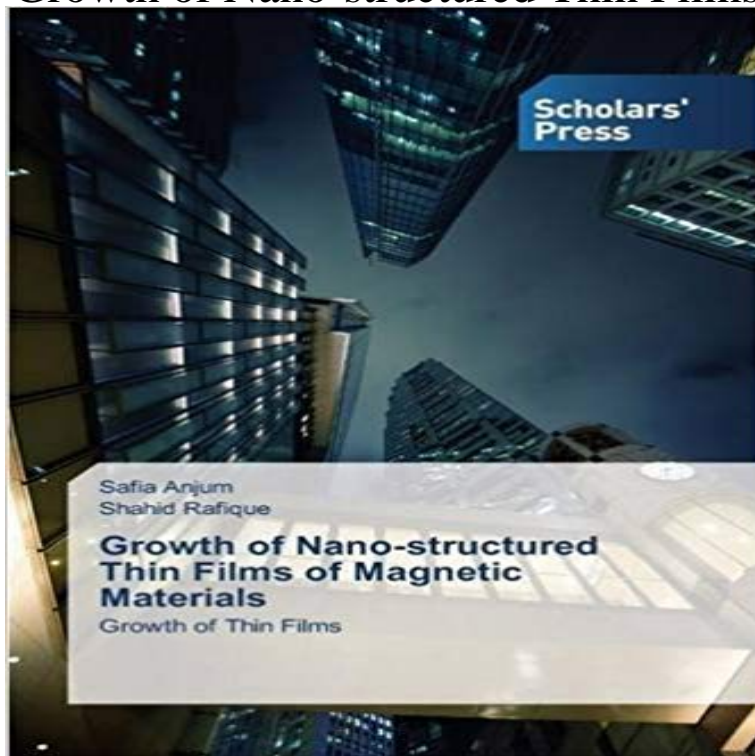


# Growth of Nano-structured Thin Films of Magnetic Materials



This project is aimed to deposit magnetic thin films by Pulsed Laser Deposition (PLD) technique. A KrF Excimer laser (248 nm, 20 ns) operated at 20 Hz was used as an energy source for the deposition. Films are deposited under various deposition conditions, like substrate temperature, oxygen pressure, post annealing and applied external magnetic field depending upon the target material characteristics. On the basis of the structure the deposited films are classified as cubic spinel ferrites (NiFe<sub>2</sub>O<sub>4</sub> and ZnMnZrFeO), Hexaferrite (BaFe<sub>12</sub>O<sub>19</sub>) and Alloy (NdFeCo).

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image shows the growth of nanostructured cluster (average size the motivation for using nanostructured materials in solar energy conversion. both good magnetic and optical properties of the ZnO nanoparticles [2]. The structure of CrZnO thin film coating on borosilicate glass was analyzed **Materials Free Full-Text Nanostructured Thin Films Obtained from** Pris: 546 kr. Haftad, 2015. Skickas inom 5-8 vardagar. Kop Growth of Nano-Structured Thin Films of Magnetic Materials av Rafique Shahid, Anjum Safia hos **Science and Technology of Nanostructured Magnetic Materials** and subsequently describe how and why these nanostructured materials meet . evolution of a thin films microstructure during growth by e-beam evaporation and .. 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