LASER ABLATION: FUNDAMENTALS AND APPLICATIONS IN MICROPATTERNING AND THIN FILM FORMATION

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Pulsed-laser ablation and deposition have found increasing interest in surface patterning and thin-film fabrication [1]. In this contribution we present recent reesults on ablation mechanisms and discuss the various possibilities and drawbacks of pulsed-laser deposition (PLD). The morphology, physical properties, and the different applications of PLD films are discussed with special emphasis on polymer films.

[1] D. Bäuerle: *Laser Processing and Chemistry*, Springer Verlag 1996