

LASER SCRIBING OF THIN FILMS FOR FUTURE PHOTOVOLTAIC APPLICATIONS

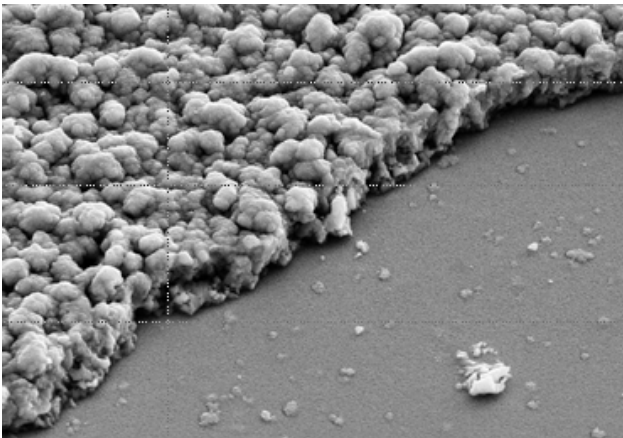
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Laser scribing has to be developed as one key technology for the fabrication of flexible, large area, high efficient thin film solar modules that can be competitive to silicon. The presentation focus on the mechanism and the results of laser ablation scribing of selected thin films.

Special emphasis will be paid to laser ablation/scribing of hybridorganic absorber films, copper-indium-gallium-diselenid (CIGS) and Pvon flexible substrates.



SEM image of a CIGS edge after laser ablation.