

PL0001

Plasma and Optical Thin Film TechnologiesNorbert Kaiser¹¹Fraunhofer IOF, Jena, Germany

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The design and manufacture of components and systems are worldwide activities in the field of photonics. Optical coatings perform a key function and dictate the performance of the systems – ranging from photovoltaics, electronics, mechanical engineering, semiconductor technologies to life science. Process plasmas represent an important tool for layer and surface property refinement. A project called PluTO is aimed at combining thin-film and plasma technologies. Accordingly, the consortium comprises experts in optical coating (Laser Zentrum Hannover, Fraunhofer IOF) and such in plasma technology (INP Greifswald, Ruhr University of Bochum RUB). Results obtained from the PluTO-consortium confirm the suitability of the approach. New deposition control strategies increase yield and quality which are distinguishing factors for industrial coating production.

Keywords

optical coatings

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yield and quality

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