Jena, the city of optics: yesterday, today, tomorrow
Milestones in optical coating technology: from A. Smakula/John Strong until today

Antireflection coatings: key optical components
New optimization algorithm for the synthesis of rugate optical coatings
Colorimetry optical coating
Fourier transform estimation of reflecting thin film thickness
Thin-film coatings and transmission-polarization-devices: negative system
Laser trimming of thin-film filters
Optical coatings for artworks preservation and enhanced viewing
Steep-edge filter design with equivalent layers
Manufacturing of linear variable filters with straight iso-thickness lines
Studies on superprism effects in multilayer thin film stacks
Substantial progress in optical monitoring by intermittent measurement technique
Real-time lateral optical monitoring for the production of complex multilayer stacks

Re-engineering of inhomogeneous coatings based on in-situ optical broadband monitoring data
Plasma monitoring of the RLVIP-process with a Langmuir probe
Ion source characterization based on an array of retarding field analyzers
IBS deposition of dense fluoride coatings for the vacuum ultraviolet free electron laser
Performance data of a variable transmission phase shifting mask blank for 193nm lithography enhanced by inspection contrast tuning
Influence of the amorphous character of Al$_2$O$_3$ layers on their use in the deep UV spectral range
Oxide and fluoride coatings for the excimer wavelength 193nm
Aluminum-enhanced optical coatings for the VUV spectral range
Lanthanide tri-fluorides: a survey of the optical, mechanical and structural properties of thin films with emphasis of their use in the DUV-VUV-spectral range

Optical, structural, and mechanical properties of gadolinium tri-fluoride thin films grown on amorphous substrates
Absorption and fluorescence measurements of DUV/VUV coatings
Nanostructure and optical properties of fluoride films for high-quality DUV/VUV optical components
Multilayers for the EUV and soft X-ray region
Interface-engineered multilayer mirrors
X-UV chirped mirror fabrication for phase control of attosecond pulses
Performances and stability of Sc/Si multilayers with barrier layers for wavelengths around 46 nm
Engineering meter-scale laser resistant coatings for the near IR
Comparative study of IR and UV laser damage resistance of silica thin films deposited by electron beam deposition, ion plating, ion assisted deposition and dual ion beam sputtering
LIDT improvement of multilayer coatings by accurate analysis at fabrication steps

Laser thin films with very high damage threshold
Ion beam sputter coatings for loser technology
Highly reflective thin film coatings for high power applications of micro scanning mirrors in the NIR-VIS-UV spectral region
Temperature dependence of the optical properties of mixed oxide thin films deposited by reactive magnetron sputtering
Correlation between the optical performance of TiO2-Ag-TiO2 multilayers and the interface roughness between the layers
High-rate deposition of optical coatings by closed-field magnetron sputtering
Innovative production of thin film loser components
Thorium-free interference coatings for infrared applications
Precision optical and antireflection multilayers and gradient coatings containing reactively sputtered oxides, nitrides and fluorides
Organically modified SiO[ subscript 2] coatings on polycarbonate
Design of hybrid coatings composed of homogeneous layers and refractive index gradients
Gravure printing of transparent conducting ITO coatings for display applications
Optical and mechanical properties of thin RLVIP Nb[ subscript 2]O[ subscript 5]-films

Chemical vapour deposition of optical coatings onto small scale complex optical components
Comparison of optical resistance of ion assisted deposition and standard electron beam deposition methods for high reflectance dielectric coatings
Multiple pulse laser-induced damage of antireflection coated lithium triborate
Optical sensitivity of thin films to hydrocarbons and ozone
Growth and thermal stability of interfaces in ion beam sputtered Mo/Si mirrors
Zr-silicate co-evaporated thin films
Properties of chirped mirrors manufactured by plasma ion assisted electron beam evaporation
Comparison at gradient index and classical designs of a narrow band notch filter
Synthesis and manufacturing the mirrors for ultrafast optics
Optical thin films deposition by MDECR-PECVD
Ageing of optical components under laser irradiation at 532nm
Determination of complex optical indices in the 80-140nm VUV wavelength region from reflectivity measurements under normal incidence : application to ZnSe

High-performance Cr/Sc multilayers for the salt x-ray range
Ion-assisted deposition of SiO[subscript 2] film from silicon
Optical monitoring of rugate filters
Effective medium models for metal-dielectric composites : an analysis based on the spectral density theory
Design elements of porous silicon omnidirectional mirrors
VUV optical coatings for the next-generation micro-mechanical mirrors
High resolution video based inspection method for LIDT investigations of thin disc laser crystals
Laser ablation of SiO$_x$ thin films for direct mask writing
Deposition of broadband antireflection coatings on plastic substrates by evaporation and reactive pulse magnetron sputtering
New advances in improving low-temperature stability of infrared thin-film interference filters
Optical characterization of non-uniform thin films using imaging spectrophotometry
Deposition of robust multilayer mirror coatings for storage ring FEL losing at 176 nm
Spatial beam switching using the superprism effect in nonlinear thin-film stacks
Preparation and characterization of multilayers for EUV applications
Genetic algorithm design of reflection thin-film coatings and polarization devices
High reflectivity measurement with cavity ring-down technique
Characterization of optical thin films exhibiting detects
Study of potential quantization effects in designs for 12.4 nm mirrors
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