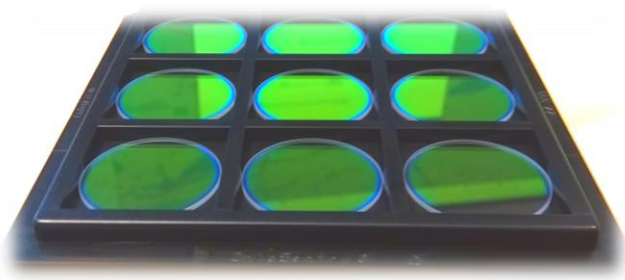
# OCRICOM

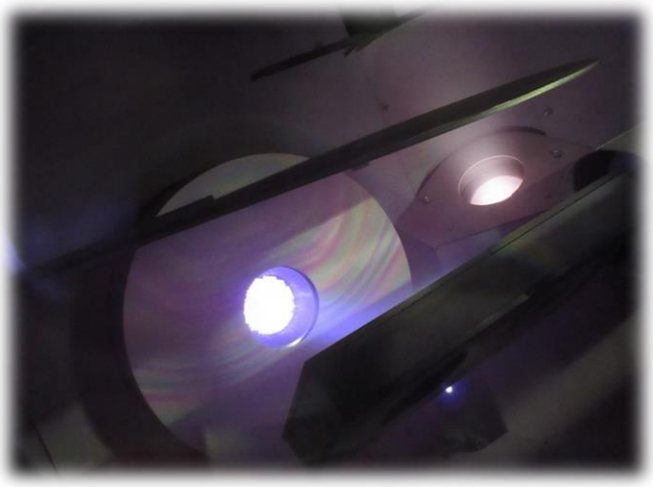
***"Optical Coatings Research & Innovation Company"***


- **Optical Coating Solutions & Technology Consultation:**
  - Coating Design
  - Fabrication
  - Process Development
  - Consultation



- **Optical Coatings:**
  - Antireflection
  - High reflection
  - Pass Filters
  - Protection/Passivation

- **Ion Beam Sputtering**



- **Benefits of Ion Beam Sputtering:**
  - Uniform and dense films.
  - Low losses and high optical damage threshold.
  - Precise control of the deposition process via ion source parameters and integrated optical monitoring.

- **Secondary Ion Source Processes:**
  - Pre-cleaning of the sample surface.
  - Ion assisted deposition for e.g. nitrides.
  - Pre- & post-coating surface modification.
- Available gases: $N_2$,$O_2$,Ar, $H_2$.

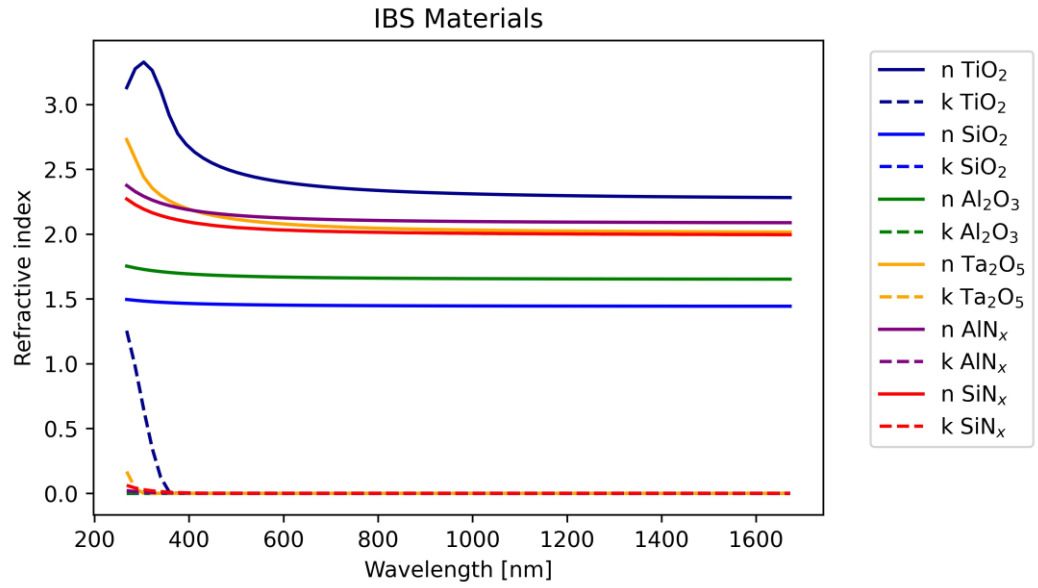
- **Available Materials Selection:**
  - **Ion Beam Sputtering:**

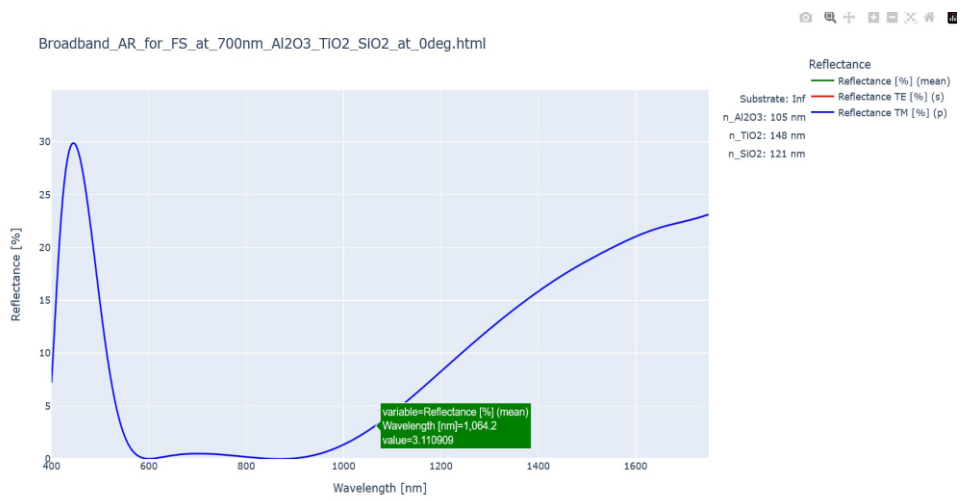
    $TiO_2$, $SiO_2$, $Al_2O_3$, $Ta_2O_5$, $AlN_x$, $SiN_x$, ($TaN_x$, $TiN_x$)
  - **Electron Beam Evaporation:**

    Dielectrics: $TiO_2$, $SiO_2$, $Al_2O_3$, $Ta_2O_5$, $MgF_2$, SiO, Si, $Bi_2O_3$, $ZrO_2$

    Metals: Ag, Al, Au, Cr, Ge, Ni, Pt, Ti
  - **PECVD:**

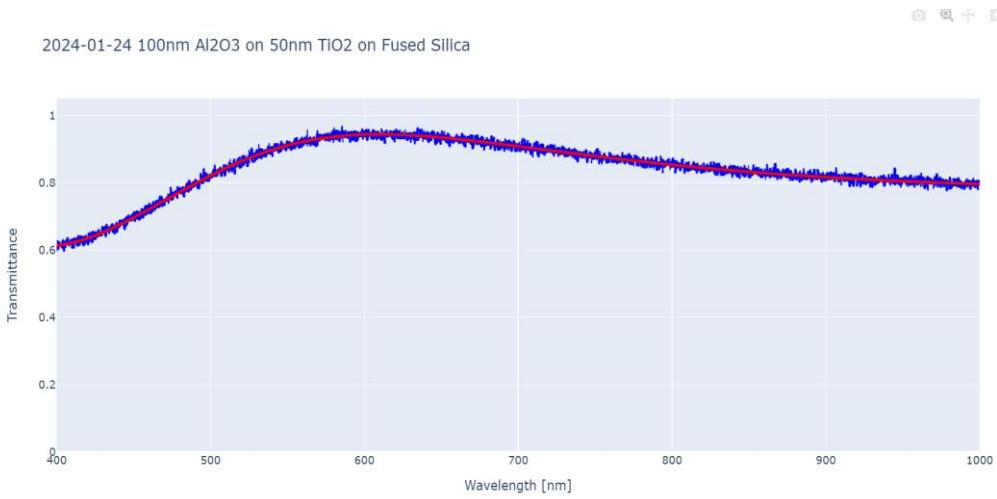
    $SiO_2$, $SiN_x$




- **Interactive Design Plot for Performance Evaluation**:
  - Zoom, scale, or select the polarization you want for the reflectance/transmittance plot of your coating design.
  - Custom plots available, if you, for instance, want to have both reflectance and transmittance in the same plot.
  - Influence of the substrate backside can be included, so you know what to expect in terms of real-world performance.

- **Post-Coating Analysis Service:**
  - From the optical monitoring data we can reverse engineer the coating run layer by layer and assess the differences between the provided design and the actual deposited coating.
  - We can measure the deposited coatings with spectrophotometer (R%/T%, 200- 2000 nm), atomic force microscope, and scanning electron microscope (surface quality, morphology).




**More about us:** https://ocricom.com

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