

# Fabrication of Porous Anodic Alumina (PAA) by High-Temperature Pulse-Anodization: Tuning the Optical Characteristics of PAA-based DBR in the NIR-MIR Region

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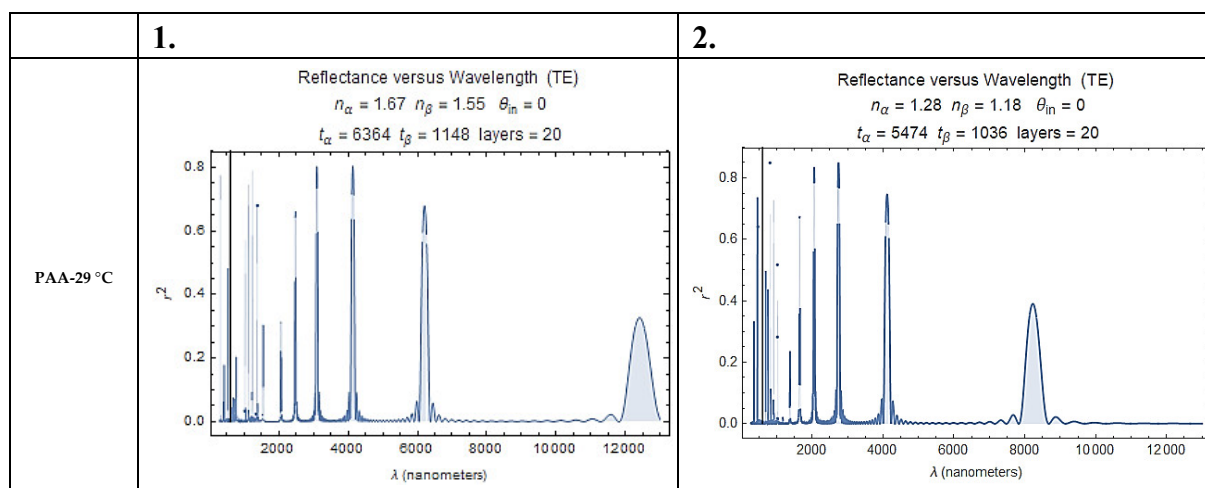
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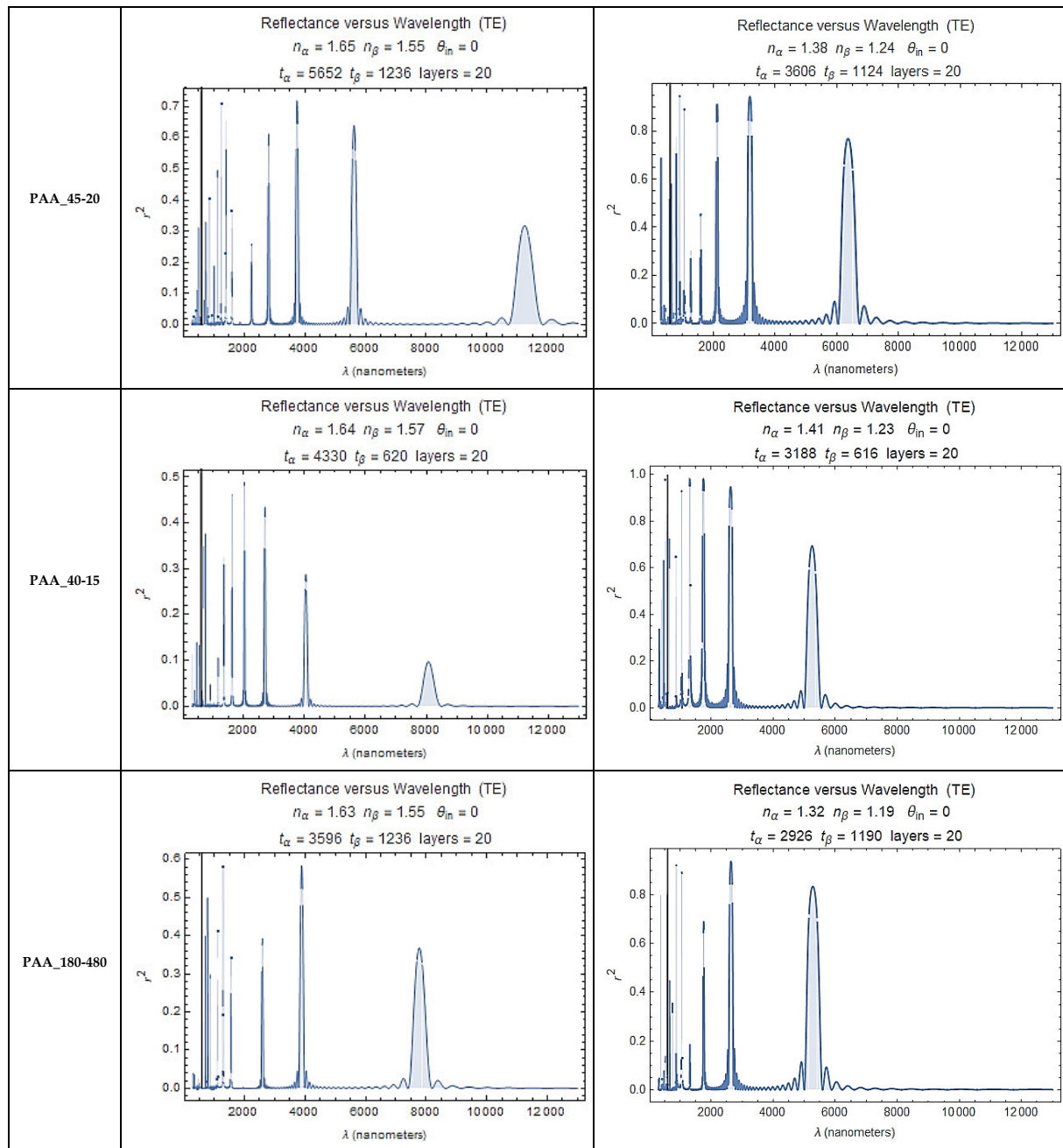
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**Table S1** Simulated optical spectra of the PAA-29 °C, PAA\_45-20, PAA\_40-15, and PAA\_180-480 DBRs performed using WOLFRAM Demonstration Project: <https://demonstrations.wolfram.com/MultilayerPhotonicBandgap/> (in this simulation:  $t_\alpha = 2d_H$  and  $t_\beta = 2d_L$ ).

Two cases were considered:

1. taking into account  $d_H^{\text{init}}$  and  $d_L^{\text{init}}$  and  $n_H$  and  $n_L$  values determined based on PAA characterization,
2. taking into account  $\overline{d_H}$  and  $\overline{d_L}$  and assumed  $n_H$  and  $n_L$  values to make PSBs match with the observed resonances  $\lambda_{1}^{\text{obs}}$  and  $\lambda_{2}^{\text{obs}}$ .





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