

## Supplementary material

# Mosaic of Anodic Alumina Inherited from Anodizing of Polycrystalline Substrate in Oxalic Acid

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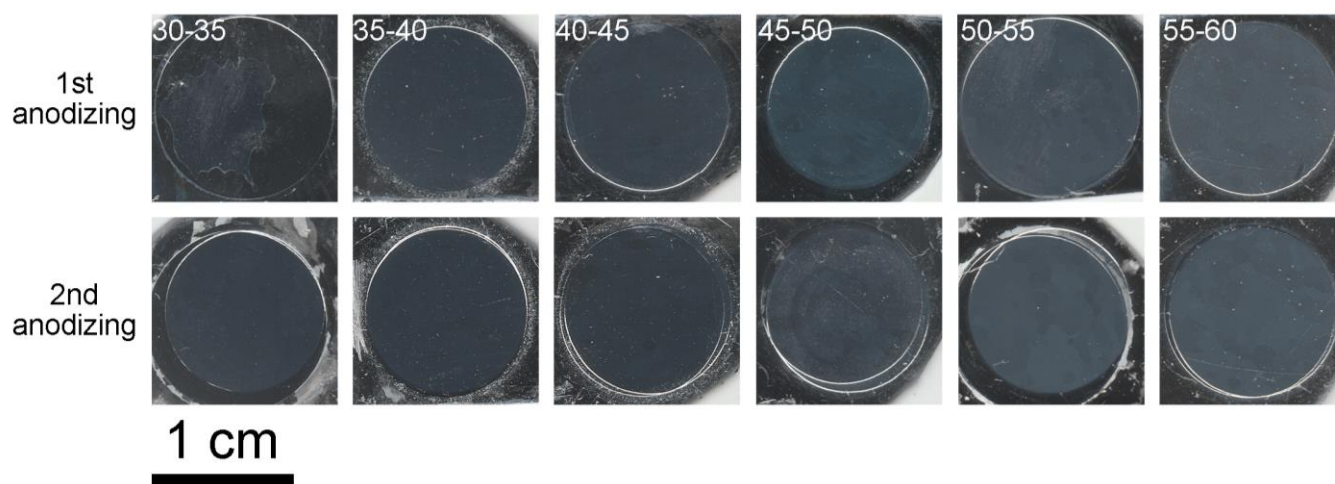
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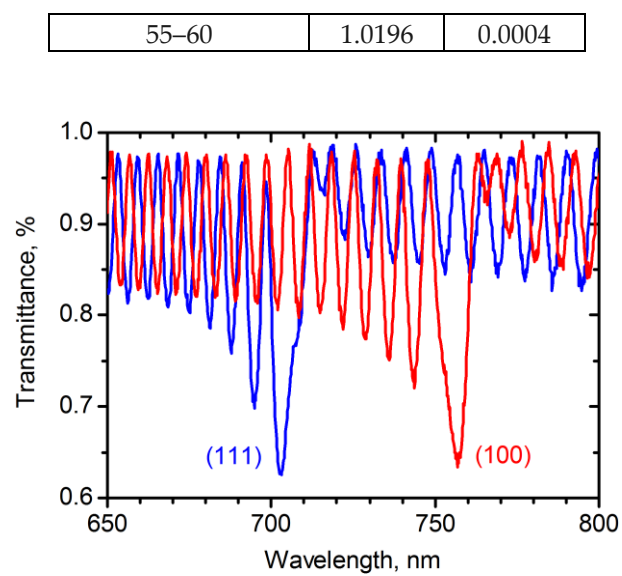
**Figure S1.** Scanned images of AAO 1D PhCs. The sample names are shown in the upper left corner of the images.

**Table S1.** Anodizing area (cm<sup>2</sup>) of prepared anodic aluminium oxide one-dimensional photonic crystals.

	30-35	35-40	40-45	45-50	50-55	55-60
1st anodizing	1.250	1.063	1.039	1.000	1.213	1.125
2nd anodizing	0.986	1.092	1.088	1.021	1.031	1.100

**Table S2.** The ratio ( $r_{wd}$ ) of the  $\lambda_{PBG}$  values for wet and dry samples over the entire sample area of prepared anodic aluminium oxide one-dimensional photonic crystals.

	$r_{wd}$	standard deviation of $r_{wd}$
30-35	1.0257	0.0005
35-40	1.0214	0.0005
40-45	1.0224	0.0005
45-50	1.0225	0.0007
50-55	1.0230	0.0003



**Figure S2.** Transmittance spectra of sample 30–35 measured in the spots grown on grains close to Al(100) and Al(111).