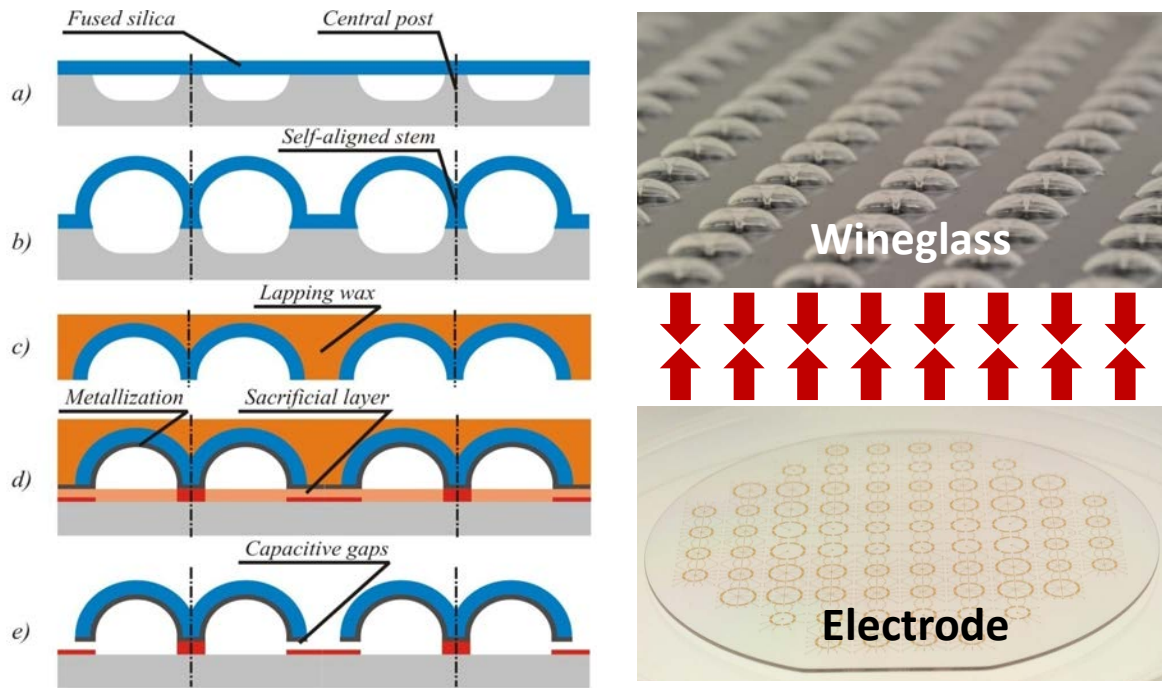


## Fabrication Process



## Atomic Smoothness, bulk fused silica, and self-aligned stem structure

**After glassblowing**  
0.23 nm Sa

2 μm

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**After glassblowing**

**Before glassblowing (Polished wafer)**  
0.40 nm Sa

2 μm

**Before glassblowing**

**ULE inverted-wineglass**

\* D. Senkal, M. J. Ahamed, A. A. Trusov, A. M. Shkel, S&A 2012.

**Self-aligned stem**

Atomic smoothness (0.23 nm Sa)

Self-aligned < 200 μm stem