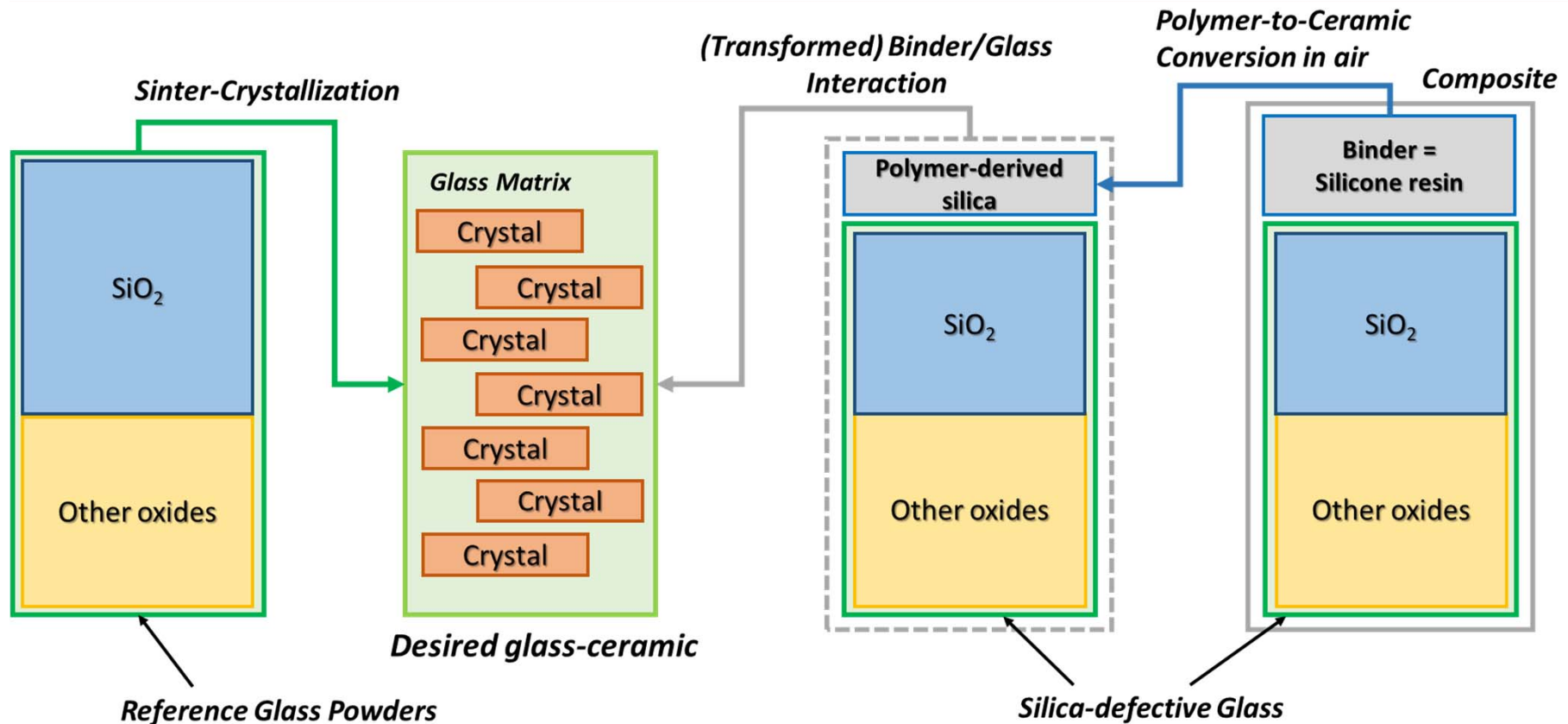




UNIVERSITÀ
DEGLI STUDI
DI PADOVA

New concept: glass as the only filler

Glass-ceramics as the result of silocone-glass interaction
Compensation of polymer-derived silica



New approach to sintered glass-ceramics

Conventional: glass powders mixed with sacrificial binder → **sinter-crystallization**
AFTER complete burn-out of binder

New: powders of **silica-defective glass** mixed with silicone → **reaction with the ceramic residue** → **silicone as reactive binder**