

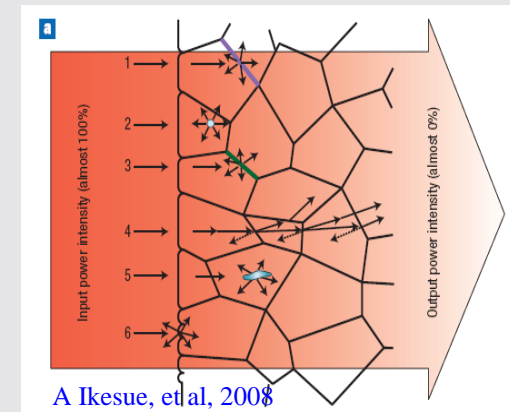
Transparent polycrystalline ceramics

Yiquan Wu, Assistant Professor
Kazuo Inamori School of Engineering
New York State College of Ceramics, Alfred University



Challenges for transparency

- Grain boundary
- Residual pore
- Second phase
- Double refraction
- Inclusion
- Surface roughness



Transparent polycrystalline ceramics would provide unique and versatile optical materials applied in the fields of scintillators, optical components, solid-state lasers, and nonlinear optics

