

# **Novel Materials and Devices for Optoelectronic/Photonic Applications**

**N. Peyghambarian\***

*College of Optical Sciences, University of Arizona*

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Our recent advances in solid-state optoelectronic materials and devices will be reviewed. In the area of glass optics, fabrication of novel photonic crystal microstructured and multi-core fibers and their use in realizing single mode lasers will be summarized. In organic and plastic optics, photorefractive polymers for 3D display applications and nonlinear polymers for high speed modulators in RF photonic and remote antenna applications will be discussed. Our progress in medical optics including adaptive eyewear and imaging will also be described.

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\*Corresponding Author.

*Email Address.* nnp@U.Arizona.EDU (N. Peyghambarian )