Material aspects of periodically poled lithium niobate.


Optoelectronics Research Centre
University of Southampton
Highfield, Southampton
SO17 1BJ

pgrs@orc.soton.ac.uk
tel +44(0) 2380 592809
fax +44(0) 2380 593149

The talk will provide an overview of applications of domain inverted materials in optics. In particular, methods of fabrication will be presented with particular emphasis on the interplay between poling techniques, material properties and device requirements. Examples will be presented of nonlinear optical devices in bulk and waveguide. Further examples will concentrate on novel uses of domain engineered devices.