

Abstract Submitted  
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**Nanolayered microlenses in theory and practice** MICHAEL CRESCIMANNO, JAMES ANDREWS, TOM ODER, CHUANHONG ZHOU, CORY MERLO, CONNOR HETZEL, CAMERON BAGHERI, JOSHUA PETRUS, ANTHONY MAZZOCCO, Department of Physics and Astronomy, Youngstown State University — Co-extruded layered polymer films with structurally designed optical dispersion are used as “blanks” from which micro lenses have been fabricated using grey-scale photo-lithography followed by plasma etching. We describe the materials and processing as well as techniques used to characterize the micro lenses and the physical optics theory used to model their measured behavior.

Michael Crescimanno  
Department of Physics and Astronomy, Youngstown State University

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