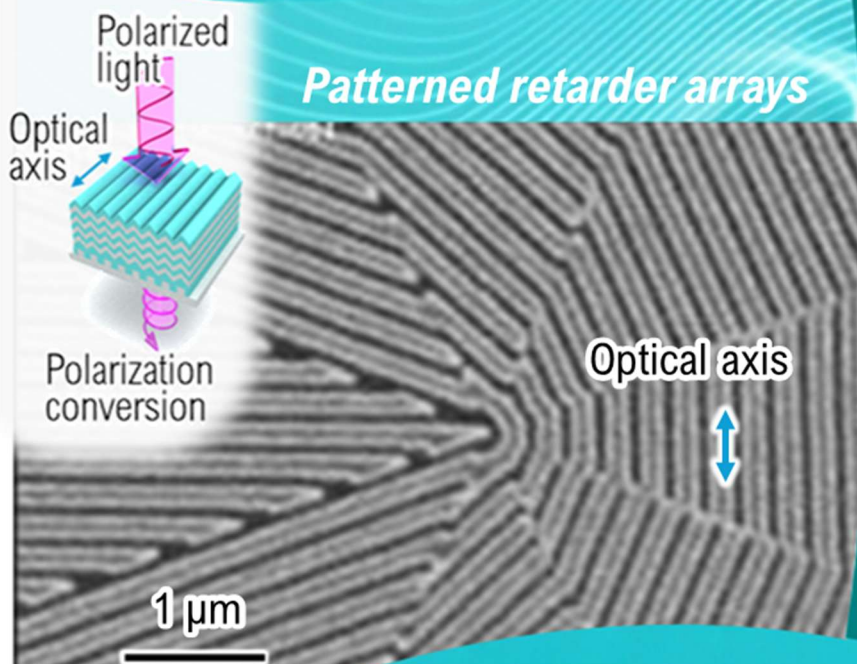


# The Next Evolution in Beam Shaping

Redefining Laser Processing with Advanced Polarization Control



## Core Technology

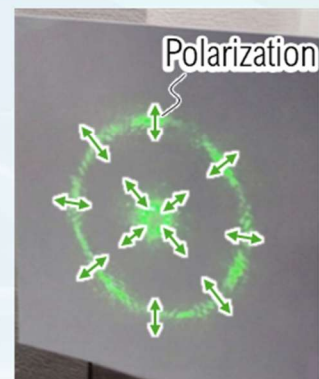
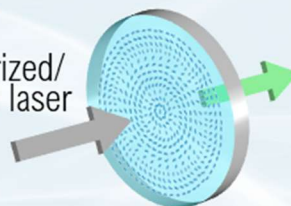
- ◆ Micron-scale retarder arrays composed of inorganic multilayers
- ◆ Ultra-precise control of retardation and optical axis orientation for arbitrary spatial polarization manipulation
- ◆ Advanced beam shaping utilizing “Pancharatnam-Berry phase”

## Features

- ◆ Wavelength,  $\lambda$ : 250 nm - 12  $\mu$ m
- ◆ Laser induced damage threshold: > 22 MW/cm<sup>2</sup> at  $\lambda$  = 1030nm (CW)
- ◆ Transmission efficiency: > 95 %
- ◆ In-house integrated production from design to manufacturing

*Manipulation of beam shape and polarization*

Nonpolarized/  
polarized laser



## Applications

Metal processing (welding, cutting, drilling, etc), Patterning, Marking, Annealing, Medical research, and Laser surgery