Special Issue

Design and Manufacture of Micro-Optical Lens

Message from the Guest Editors

A wide range of components is used in micro-optics, such as micro-lenses and miniature diffractive and adaptive optical elements in mechatronics products, precision instruments and micromachines. Applications include miniature imaging lens, optical fibers, lens for endoscopy and naked eye 3D display, laser beam shaping, etc. Glass is the first material used for optical devices. Advances in polymer optics have dominated the consumer markets. The need for higher imaging quality and environmental endurance, together with the advances in manufacturing technology and machine design, lead to the comeback of glass for critical lens applications. The advances in fabrication technology, materials technology, control and automation and the miniaturization of machines have made the automatic production of high precision glass lens accessible to more manufacturers. We are inviting papers from technology reviews to original and theoretical research works, on all aspects of micro-lens manufacture. These are not limited to molding technology, but also include various fabrication techniques such as precision machining and polishing, rapid prototyping, and lithography, etc.

Guest Editors

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