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Recent Advances in Optical Manufacturing and Processing

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Precision and ultra-precision optics, such as lenses and mirrors, are crucial in a huge range of applications, including laser physics, astronomy, remote sensing from space, the photolithography of semiconductor chips, joint and cranial implants, turbine blades, security and defense, as well as many other consumer electronics. Mass-produced optics are particularly used in autonomous electric vehicles, requiring cameras, sensors, and advanced lighting.

This Special Issue aims to present original state-of-the-art research articles centred around recent advanced developments in optical manufacturing and processing, including, but not limited to, the following:

- bonnet polishing;
- magnetorheological finishing (MRF);
- ion beam figuring (IBF);
- fluid jet polishing (FJP);
- abrasive jet polishing (AJP);
- chemomechanical polishing (CMP);
- shape adaptive grinding (SAG);
- robotic polishing (RP);
- single-point diamond turning (SPDT);
- plasma jet finishing (PJF);
- plasma chemical vaporization processing (PCVP);
- reactive atom plasma technology (RAPT);
- atmospheric pressure plasma processing (APPP).