



## Recent Advances in Optical Diffraction and Imaging

Guest Editor:

**Dr. Alexey Andreevich Kovalev**

Laser Measurements Laboratory,  
IPSI RAS—Branch of the FSRC  
“Crystallography and Photonics”  
RAS, Molodogvardeyskaya 151,  
443001 Samara, Russia

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### Message from the Guest Editor

Dear Colleagues, This Special Issue aims to present state-of-the-art articles on both theoretical and experimental studies on generation, propagation, focusing, and measurement of light beams, and applications of structured beams. Topics include but are not limited to:

- Design, simulation, and manufacturing of optical devices for light focusing (metasurfaces, zone plates, plasmonic lenses, etc.);
- Properties of tightly focused light;
- Diffraction of various kinds of optical beams;
- Imaging techniques to obtain optical beam properties;
- Diffraction-free and propagation-invariant beams;
- Photonic nanojet;
- Light bullet;
- Overcoming the diffraction limit;
- Applications of tightly focused light;
- Singular optics;
- Generation of structured light beams;
- Beam dynamics;
- Partially coherent light beams;
- Fractional vortex beam;
- Plasmonic vortices;



- Vector light beams;
- Orbital angular momentum;
- Topological charge;
- Spin orbital conversion;
- Applications of structured light beams.