



Laser Interaction with Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In the U.S., we are entering a new decade with a new administration, offering a unique possibility for new programs that can apply lasers to world problems. We welcome proposals that are novel, creative, and reversible in case of unintended consequences in the following areas:

- Laser debris removal - close to a perfect solution for dangerous clouds of orbital debris, as well as for predicting and preventing future collisions
- Laser-driven particle acceleration
- Machining with ultrafast lasers
- Using laser-induced shocks for materials properties studies
- Novel uses for lasers in additive manufacturing (so-called 3D printing)
- Lasers in dentistry and orthopedics
- Lasers in space, laser cannons, laser launching to explore nearby space, ultrafast lasers for orbit metrics, laser nudging to prevent collisions, laser clearing of GEO parking spaces
- Laser defense applications
- Pulsed laser deposition, matrix-assisted pulsed laser evaporation, laser printing of biological systems

