1st International Workshop on
Solar-Pumped Lasers (SoPuLa'27)

The Karlsruhe Institute of Technology (KIT) – represented by Prof. Bryce S. Richards – is hosting an in-person & invite-only workshop 9 – 10 June 2027 on the topic of solar-pumped lasers (SPL), assisted by the coordinators of two EIC Pathfinder projects: i) APACE – Prof. Luca Celardo (University of Florence, Italy – www.apace-biolaser.eu/) and ii) PhotoniX – A/Prof. Kypros Milidonis (The Cyprus Institute, Cyprus – photonix-project.eu/).

The goal is to bring together SPL researchers from across the world, to share knowledge and ideas for enhancing the output power and efficiency of SPL systems – operating under concentrated and unconcentrated sunlight, and based on either more classical laser rods (e.g. Nd:YAG) or more novel optical fibre architectures. As well as networking, one specific goal is to search for synergies and work towards future joint funding applications, whether at the binational or international level.

Workshop discussion topics tackle key challenges:

- Addressing spectral mismatch issue in SPL systems
- Overcoming weak absorption in SPL media
- Optical transport & pump coupling losses
- Digital twins – integrated optical & thermal modelling of SPLs
- What are the upper performance limits of SPLs?
- Applications of SPL systems – from Earth to space

Keynote lectures to be given by:

- Assoc. Prof. Dawei Liang, NOVA Univ of Lisbon, Portugal
- Prof. Masamori Endo, Tokai Univ., Japan
- Dr. Hanieh Fattahi, Max Planck Inst Science of Light, Germany

Location:

International Department of the KIT
Schlossplatz 19, 76131 Karlsruhe, Germany

Timing:

Day 1: 9th June 2027

11:30 – 12:30	Arrival and lunch
12:30 – 18:00	Welcome, introductions, presentations & discussion
18:00 – 21:30	Joint dinner & discussion

Day 2: 10th June 2027:

8:30 – 12:30	Presentations
12:30 – 13:30	Joint lunch
12:30 – 16:00	Panel discussion, future strategy, and wrap-up
16:00	Departure

Cost:

€0 (includes lunches and dinner). Attendees need to cover their own travel and accommodation costs.

Contact:

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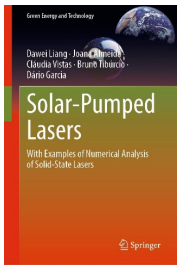

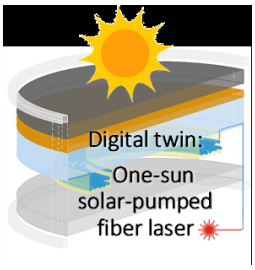

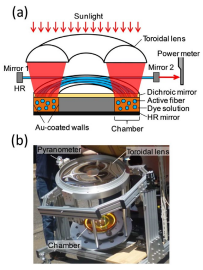

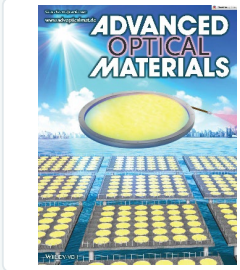

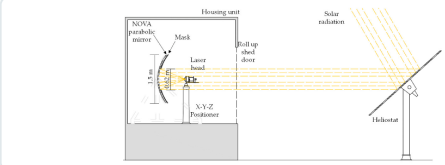

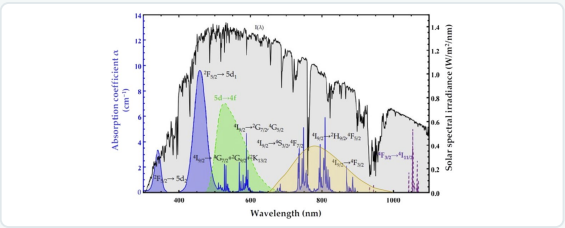



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EIC Pathfinder

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