MEGA

MATERIALS

ABOUT US

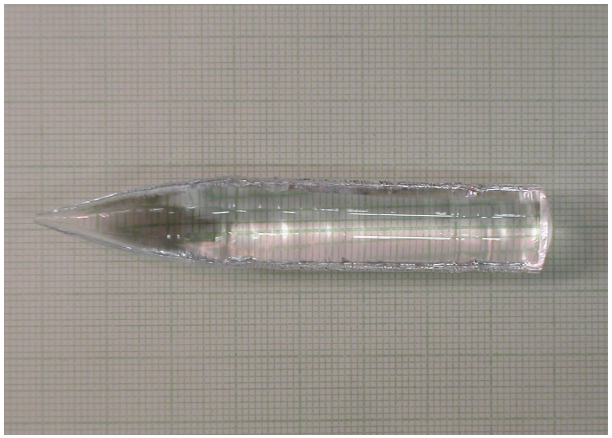
- MEGA Materials is a spin-off of Pisa University, devoted to the growth of high-purity fluoride crystals, with application in **solid-state lasers, optical cryo-coolers, metrology, energy and communication**.

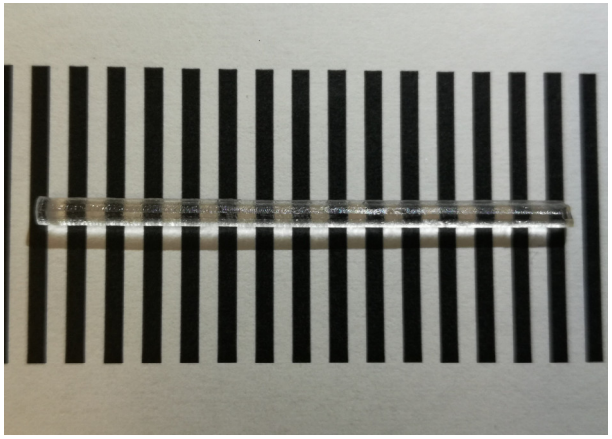
AZIENDA SPINOFF
DELL'UNIVERSITÀ DI PISA

ABOUT US

- Established: April 2019
- The founders of MEGA Materials are part of the Physics Department of Pisa University, in the **New Materials for Laser Applications** group.
- The group is operating in this research field since 1997, with more than 300 publications.

PRODUCTS

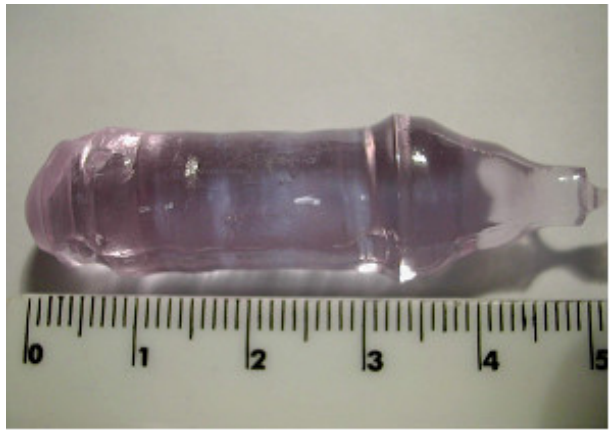




- We produce high-quality **single crystals** of fluorides via the Czochralski (CZ) tecnique. Our single-crystal boules have high omogeneity, excellent optical quality, and high purity.

- We produce high quality **single crystal fibers** of rare-earth-doped fluorides using the micro pulling down techniques. This method allows to grow fibers with diameters unachievable with mechanical processing of larger boules.

PRODUCTS



Our crystal can be doped with almost all trivalent rare-earth ions:

Pr, Nd, Eu, Tb, Dy,

Ho, Er, Tm, Yb

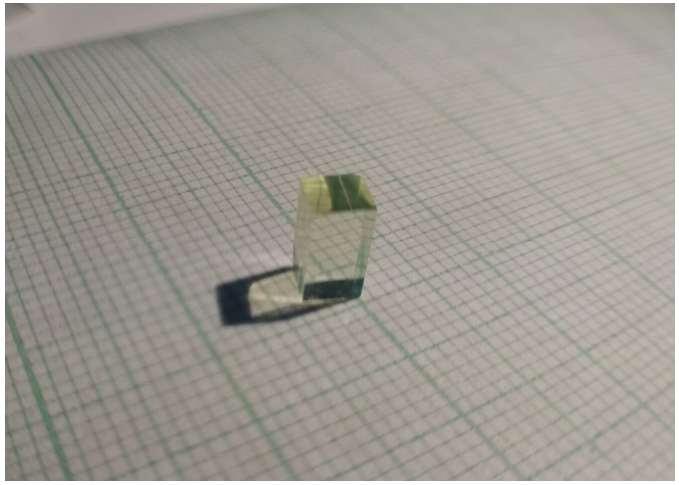
Co-dopings are also possible:

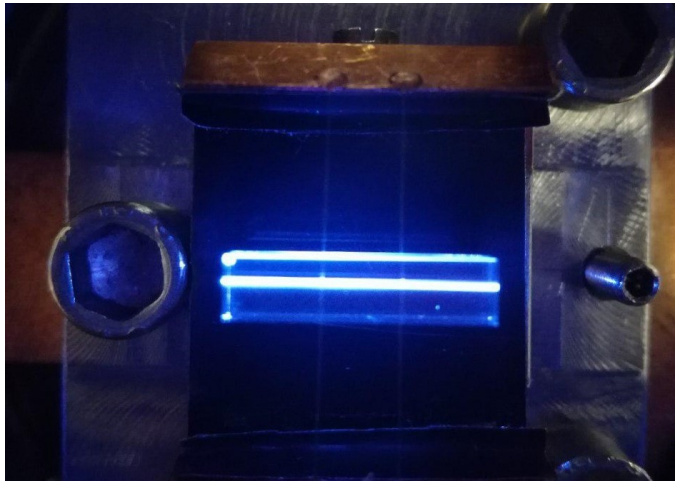
Tm/Ho, Dy/Tb, Pr/Ho, …

SERVICES

Our additional services includes:

- Orientation, cut and polishing of crystal sample at laser-grade quality
- UV-VIS-NIR static and dynamic spectroscopy (absorption, fluorescence) from 10 K to room temperature
- Counseling and design on optical materials and systems, lasers and spectroscopy





PEOPLE

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Prof. Alberto DI LIETO

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CONTACTS

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