

# SOLID-STATE LASER WITH COPV AS ACTIVE COMPOUND

**P** TECNOLOGÍA PATENTADA



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## RESUMEN

The research group "Physics of condensed matter" of the University of Alicante has developed a new solid state laser (OSL) where the active compound comprises carbon-bridged oligo(p-phenylenevinylene) (COPV).

The main advantages of this technology are photostability, miscibility, processable in thin layers and effective for laser generation at different wavelengths. It can be used in the following industrial sectors: Spectroscopy, biosensors, chemical sensors and optical communications.

The research group is looking for companies interested in acquiring this invention or adapting it to their requirements.

## VENTAJAS Y ASPECTOS INNOVADORES DE LA TECNOLOGÍA

### MAIN ADVANTAGES OF THE TECHNOLOGY

The laser developed material shows the following advantages :

- Suficientemente soluble y miscible para facilitar la fabricación de películas delgadas. Soluble and miscible in order to allow thin layer processing.
- Cheap.
- Photostable.
- Efficient for laser light generation.
- Ability for emission at different wavelengths.

### INNOVATIVE ASPECTS

Same laser development combines:

- Efficiency
- Stability
- Wavelength tuning.
- Liquid solution procesable.

## APLICACIONES DE LA OFERTA

- Spectroscopy
- Biosensors

- Chemical Sensors
  - Optical Communications
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#### COLABORACIÓN BUSCADA

Companies looking for technologies in order to commercially introduce or develop this product are sought. Cooperation sought:

- Licensing agreements.
  - Joint R&D projects in order to adapt the developed technology to company needs.
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