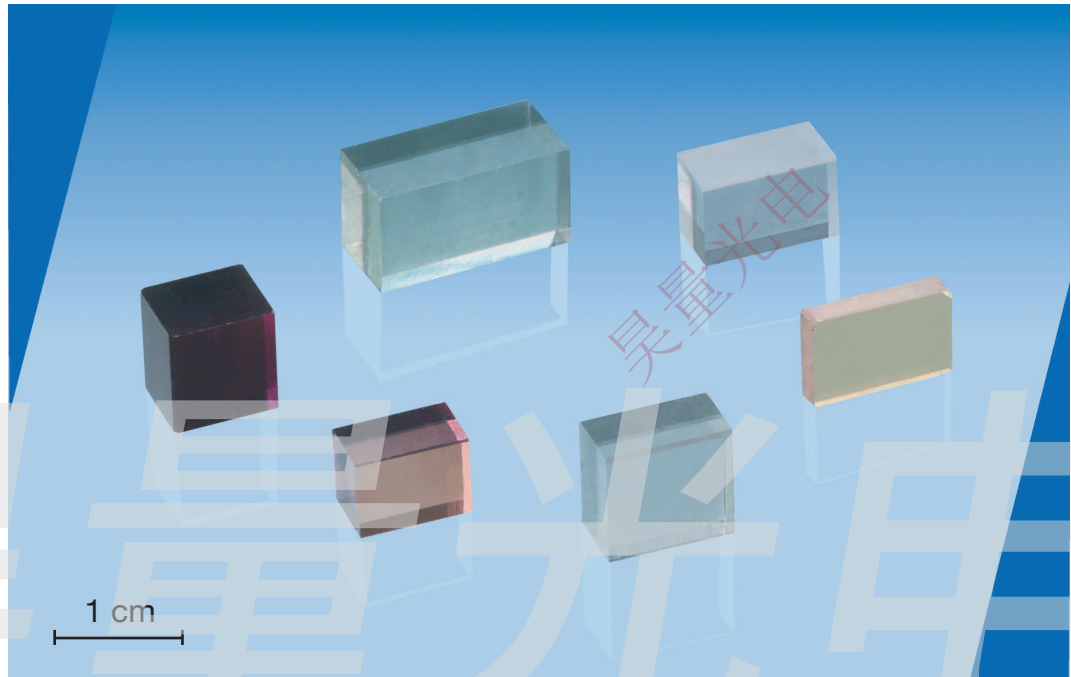


Photorefractive **KNbO₃**



Standard Features

- high quality crystals doped with Rh, Fe, Mn, and Ni for photorefractive applications in the infrared
- very low scattering losses

Optional Features

- high photosensitivity up to 1000 nm wavelength
- milliseconds response time

Applications

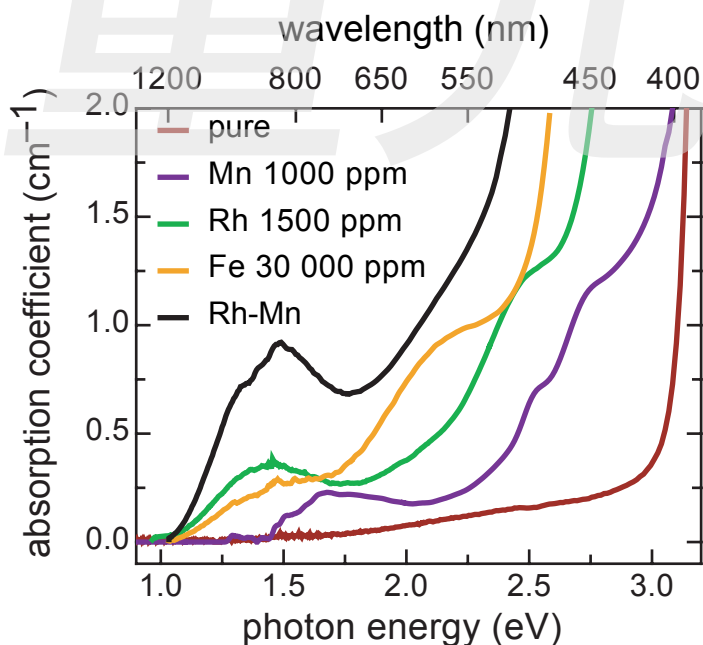
- photorefractive applications with laser diodes
- dynamic holography and optical phase conjugation in the visible and near infrared

Photorefractive grating recording times

(selected KNbO₃ crystals at different wavelengths for I = 1 W/cm²)

Crystal	Wavelength [nm]	Recording time (typical) [s]
KNbO ₃ :Fe	488	1
KNbO ₃ :Mn	515	1
	860	3
KNbO ₃ :Fe reduced	488	0.01
	515	0.01
KNbO ₃ :Rh reduced	860	0.5
	1064	50

Absorption Spectra



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