

Cr:ZnSe & Fe:ZnSe

DIEN TECH offers Cr²⁺ and Fe²⁺ diffusion doped ZnSe polycrystalline gain materials, saturable absorbers with low losses, uniform distribution of transition metal dopant.

Cr²⁺ and Fe²⁺ doped ZnSe lasers are promising for spectroscopy, sensing, medical and defense applications, as well as for seeding or pumping middle- infrared optical parametric oscillators.



Cr²⁺:ZnSe saturable absorbers (SA) are ideal materials for passive Q-switches of eye-safe fiber and solid-state lasers operating in the spectral range of 1.5-2.1 μm, it can be used in numerous applications, such as free space communication systems, target designation, time-of-flight range finding, surgery, reflectrometry, laser lidars and appropriate for Q-switching of the lasers operating in the 1.5-2.1 μm spectral range etc.

Fe²⁺:ZnSe saturable absorbers (SA) are ideal materials for passive Q-switches of solid-state lasers operating in the mid-infrared spectral range of 2.5-4.0 μm laser cavities.

