

solid state lasers

CW or pulsed lasers in which the active medium is a solid matrix (crystal or glass) doped with an ion (e.g. Nd^{3+} , Cr^{3+} , Er^{3+}). The emitted wavelength depends on the active ion, the selected optical transition, and the matrix. Some of these lasers are tunable within a very broad range (e.g. from 700 to 1000 nm for Ti^{3+} doped sapphire). Pulsed lasers may be free-running, Q-switched, or mode-locked. Some CW lasers may be mode-locked.

Source:

PAC, 1996, 68, 2223 (*Glossary of terms used in photochemistry (IUPAC Recommendations 1996)*) on page 2274