

Optical Properties:

	Nd:YVO ₄	Nd:GdVO ₄	Ti:Sapphire	Nd:YAG	Yb:YAG	Er:YAG	Ho:Cr:Tm:YAG
Lasing wavelength:	914nm 1064nm, 1342nm	912nm 1063nm 1340nm	660 - 1050 nm	947nm 1064nm 1319nm(1338nm)	1030nm	2940nm	2.097 μm
Pump wavelength	808.5 nm	808.4 nm	400 - 600 nm	807.5 nm	940nm(970nm)	600~800 nm	400~800 nm
Emission cross-section://c	15.6x 10 ⁻¹⁹ cm ²	7.6x10 ⁻¹⁹ cm ²		6.5 x 10 ⁻¹⁹ cm ⁻²	2.0x10-20cm 2	3x10 -20 cm 2	7 x 10 -21 cm 2
Fluorescent lifetime:	90μ s	95μs		230 μs	1.2μs		8.5 ms
Absorption linewidth:	4nm	3nm		1nm	8 nm		4 nm
Absorption coefficient:	31.4cm ⁻¹ 810nm	74 cm ⁻¹ @810nm		7.1 cm ⁻¹ @810nm			
Intrinsic loss: @1064nm	0.02cm ⁻¹	0.02cm ⁻¹		0.003 cm ⁻¹ @ 1064nm			
Gain bandwidth:	0.96nm @1064nm	0.8nm @1064nm		0.6nm @1064nm	9nm@1030nm		
Polarized laser emission:	π polarization; //c	π polarization; //c		unpolarized			
Diode pumped optical to optical efficiency:	>60%	>60%		>40%			