

## Diode Pumped Solid State Lasers Mit Lincoln Laboratory

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### 532 nm Diode-Pumped Solid State (DPSS) Lasers

The project focuses on the development of advanced high repetition rate, diode pumped solid state laser (DPSSL) systems with energies in the range from mJ to 100 J and repetition rates in the range 10 Hz to 100 kHz. Some applications of these lasers in research and hi-tech industry are also presented.

### Passat Diode-Pumped Solid State Lasers

Thorlabs' compact 532 nm Diode-Pumped Solid State (DPSS) green laser modules are a combination of Nd:YVO<sub>4</sub> and KTP crystals pumped by an 808 nm laser diode. The front window consists of a wedged glass filter, which blocks the IR source light and

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hermetically seals the module. DPSS lasers can be used

Diode-Pumped Solid-State Lasers Suppliers | Photonics ...  
Diode Pumped Solid State Lasers. Wavelength: 532nm 561nm 594nm 1064nm Output power: 20mW ~ 500mW Spatial Mode: TEM00 RMS Noise: 0.2% MTBF: > 10,000 hours Customize: YES Applications: Bio-Detection and Analysis, Flow Cytometry, Confocal Microscopy, Raman Microscopy, DNA Sequencing and Analysis

Solid-state laser - Wikipedia  
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China Diode Pumped Solid State Lasers Factory, Suppliers ...  
Zig-zag slab laser solutions. Most diode-pumped solid-state lasers are based on a rod-type geometry, with the laser medium in the shape of a cylinder. This geometry, which dates back to the first demonstrated laser, is effective at moderate output powers (tens of watts of average power). As the power increases, though, several problems arise.

Diode-Pumped Lasers: Performance, Reliability Enhance ...  
Most diode-pumped lasers are solid-state lasers (DPSSL = DPSS lasers = diode-pumped solid-state lasers). These are either bulk lasers, using some kind of laser crystal or bulk piece of glass, or fiber lasers (although the term DPSSL is less common for fiber lasers). Both categories span a range of output powers from a milliwatts to multiple kilowatts (? high-power lasers).

DPSS - Diode Pumped Solid State Lasers - www ...

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Solid state lasing media are typically optically pumped, using either a flashlamp or arc lamp, or by laser diodes. Diode-pumped solid-state lasers tend to be much more efficient and have become more common as the cost of high-power semiconductor lasers decreased. Mode locking. Mode locking of solid-state lasers and fiber lasers has wide applications, as large-energy ultra-short ...

## Diode Pumped Solid State Lasers

A diode-pumped solid-state laser (DPSSL) is a solid-state laser made by pumping a solid gain medium, for example, a ruby or a neodymium-doped YAG crystal, with a laser diode. DPSSLs have advantages in compactness and efficiency over other types, and high power DPSSLs have replaced ion lasers and flashlamp-pumped lasers in many scientific applications, and are now appearing commonly in green ...

## Diode-pumped solid-state laser - Wikipedia

Solid-state lasers in IR, Green, and UV wavelengths offering ns, fs pulses and powers up to 100 watts. The Coherent diode-pumped solid-state (DPSS) portfolio includes pulsed and short-pulsed Q-switched, mode-locked, and CW lasers that enable a wide range of applications in materials processing, life sciences, and research.

## Diode-Pumped Solid-State or DPSS Lasers | Coherent

One of the most significant recent breakthroughs in the area of diode-pumped solid-state lasers is a hybrid fiber/DPSS laser that combines fiber laser technology and DPSS power amplification with efficient harmonic generation. One example delivering high, flexible repetition rates in the green and UV is shown in Figure 1.

## RP Photonics Encyclopedia - solid-state lasers, diode ...

A new, scalable concept for diode-pumped high-power solid-state lasers is presented. The basic idea of our approach is a very thin

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laser crystal disc with one face mounted on a heat sink. This allows very high pump power densities without high temperature rises within the crystal. Together with a flat-top pump-beam profile the geometry leads to an almost homogeneous and one-dimensional heat ...

Diode Pumped Solid State Lasers - Cambridge Core  
diode-pumped solid-state laser A compact solid-state laser, referred to as DPSSL, created when a laser diode pumps light into either sides or end of gain crystal. Depending on where the pumping occurs, high-quality and stable output beams can be achieved with end-pumped...

PULSED DIODE PUMPED SOLID STATE LASERS - Litron  
Laser manufacturer - CrystaLaser develop and manufacture DPSS Green laser blue laser red laser, diode pumped lasers, green blue violet infrared lasers in the USA. The ultra-compact diode-pumped solid-state DPSS laser systems are in CW and Q-switched pulsed laser output from UV to IR. The YAG, YLF, SHG Nd:YAG UV blue green yellow and infrared lasers are for replace Argon laser and He-Cd lasers

Picosecond Lasers | Passat Diode-Pumped Solid State Lasers  
beams. The laser resonator is housed in a body machined from solid aluminum to ensure high mechanical and optical integrity. State-of-the-art diode pump modules and electronics give rise to outputs with industry leading stabilities of better than 0.2% RMS at 1000 over a six-hour period.

Scalable concept for diode-pumped high-power solid-state ...  
The yellow laser showed a slope efficiency of 22%, which is the performance from any directly yellow-emitting diode-pumped solid state (DPSS) laser, the researchers say. The green laser reached even-higher slope efficiency of 52% with respect to the absorption

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pump power. Applications of yellow lasers in medicine and astrophysics. Yellow ...

New diode-pumped solid-state laser emits in the yellow ...  
Recently, interest in diode laser-pumped solid-state lasers has increased due to their advantages over flashlamp-pumped solid-state lasers. The authors present a historical overview of semiconductor diode-pumped solid-state lasers beginning with v in the early 1960's and extending to recent work on wavelength extension of these devices by laser operation on new transition

DIODE-PUMPED SOLID-STATE LASERS: Edge pumping drives slab ...

Examples of different types of solid-state lasers are: Small diode pumped Nd:YAG (? YAG lasers) or Nd:YVO 4 lasers (? vanadate lasers) often operate with output powers between a few milliwatts (for miniature setups) and a few watts. Q-switched versions generate pulses with durations of a few nanoseconds, microjoule pulse energies and peak powers of many kilowatts.

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