

Diode Pumped Solid State Lasers Mit Lincoln Laboratory

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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 and other color laser pointers .

[Diode-pumped solid-state laser - Wikipedia](#)

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The Plasma DPSS series lasers are pulsed diode pumped, Q-switched Nd:YAG lasers which use the very latest in high efficiency fully diode pumped technology to replace traditional flashlamp pumping. The Plasma series DPSS lasers use Litron ' s sealed, mechanically robust diode pump module to ensure stable output, high reliability, easy diode replacement and long diode lifetime of more than 2 billion pulses. The Plasma Series High Energy Pulsed DPSS Nd:YAG Lasers at up to 200Hz FEATURES

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Diode pumping makes it possible to use a very wide range of solid-state gain media for different wavelength regions, including e.g. upconversion lasers. For many solid-state gain media, the lower brightness of discharge lamps would not be sufficient. The low intensity noise of laser diodes leads to low noise of the diode-pumped laser.

[RP Photonics Encyclopedia - diode-pumped lasers, DPSS ...](#)

Our diode pumped solid state (DPSS) lasers product range includes the LCX series of continuous wave (CW) DPSS lasers from Oxixus - a world-class manufacturer of high quality, solid-state laser sources. Oxixus offer DPSS lasers spanning the VIS-NIR wavelength ranges and are available in single longitudinal mode (SLM), ultra-low noise configuration.

[Diode Pumped Solid State Lasers products - Photonic ...](#)

We report on the successful demonstration of a 150 J nanosecond pulsed cryogenic gas cooled, diode-pumped multi-slab Yb:YAG laser operating at 1 Hz. To the best of our knowledge, this is the highest energy ever recorded for a diode-pumped laser system.

Pushing the boundaries of diode-pumped solid-state lasers ...

The yellow laser showed a slope efficiency of 22%, which is the best performance from any directly yellow-emitting diode-pumped solid-state (DPSS) laser, the researchers say. The green laser reached an even-higher slope efficiency of 52% with respect to the absorbed pump power. Applications of yellow lasers in medicine and astrophysics

New diode-pumped solid-state laser emits in the yellow ...

Lasers from Teem Photonics are all air-cooled diode-pumped solid-state lasers, which are passively Q-switched to generate sub-nanosecond pulses, and in some cases combined with a fiber amplifier. Due to nonlinear frequency converters, available emission wavelengths are 1535 nm, 1064 nm, 532 nm, 355 nm, 266 nm and 213 nm.

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

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 much more common as the cost of high-power semiconductor lasers has decreased. Mode locking

Solid-state laser - Wikipedia

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 8.

Diode-Pumped Lasers: Performance, Reliability Enhance ...

Diode-Pumped Solid-State Lasers or DPSS Lasers. Solid-state lasers in IR, Green, and UV wavelengths offering ns, ps, 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

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Picosecond Lasers | Passat Diode-Pumped Solid State Lasers

Diode-pumped solid state lasers for medical, material processing, LiDAR and spectroscopy applications, as well as, for optical pumping. Monocrom excels in design and realization of diode-pumped solid state lasers capable of satisfying our customers most exigent requirements; and so its recognized by main laser companies worldwide.

Diode pumped solid state lasers in continuous and quasi ...

The diode-pumped solid state lasers are based on our proprietary laser cavity technology, which allows the lasers to operate in a single longitudinal mode and single TEM₀₀ mode with low noise and extremely low power consumption in a compact laser housing.

CrystaLaser, Quality Lasers Made in the USA

Picosecond DPSS Lasers The highest peak power picosecond, diode-pumped solid-state lasers at the most compact sizes. Lightweight, with lowest power consumption among comparable picosecond lasers. Record holders (energy-per-size) in the UV range.

Passat Diode-Pumped Solid State Lasers

Current DPSS laser technology has advanced to enable many different wavelengths and output power to be achieved. As a result, Laser 2000 provides a wide range of diode pumped solid state lasers in the UV, visible and IR wavelength regions. Pulsed and continuous wave DPSS laser versions are available with powers ranging from mW to many Watts.

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