

## New High Power Diode Pumped Solid State Laser Qpeak

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### New High Power Diode Pumped

It is now widely recognized that Yb 3+ -doped crystals have significant potential in the development of directly diode-pumped high-power and ultrafast lasers. Among them, the Yb 3+ -doped CaGdAlO<sub>4</sub>...

### Scientists demonstrate new wavelength shift with diode ...

For the first time, we report diode-end-pumped Nd:LuYAG lasers at 1.1  $\mu\text{m}$ . • Output power of CW Nd:LuYAG laser reached 6.04 W with a slope efficiency of 41.8%. • Mean power of passively Q-switched laser reached 1.71 W with pulse width of 37.3 ns. • 79.3  $\mu\text{J}$  pulse energy is the highest for diode-end-pumped Nd 3+ lasers at 1.1  $\mu\text{m}$ .

### New high-power 1.1- $\mu\text{m}$ light source: Diode-pumped ...

Pumped Laser Diodes Provide High Power For Cutting-edge Applications Jul 02, 2019. In addition to its long life and small size, laser diodes (LD) have the highest electro-optical conversion efficiency among all known laser sources. Therefore, it provides a lot of foundation for modern laser technology and achieves this in two ways.

### Pumped Laser Diodes Provide High Power For Cutting-edge ...

The new class of diode-pumped alkali vapor lasers (DPALs) offers high efficiency cw laser radiation at near-infrared wavelengths: cesium 895 nm, rubidium 795 nm, and potassium 770 nm. The working...

### (PDF) New class of cw high-power diode-pumped alkali ...

Diode-Pumped Lasers: Performance, Reliability Enhance Applications. The latest technology advances take diode-pumped solid-state lasers into new realms of power and wavelength, enabling many new applications. Arnd Krueger and Scott White, MKS Spectra-Physics. Neodymium-doped crystals and glasses such as Nd:YAG (neodymium:yttrium aluminum garnet) have long been used as laser gain materials.

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

SEO HAS DEVELOPED A SIDE-PUMPED, MULTIPASS GAIN ELEMENT Nd:YLF right parallelepiped, transversely pumped by a pair of 20-W diode-laser bars. Bars (coupled through fiber lenses) to establish planar gain region.

### NEW HIGH-POWER, DIODE- PUMPED SOLID STATE LASER

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

### Scalable concept for diode-pumped high-power solid-state ...

Abstract: We report demonstration of a new high-power semiconductor laser technology, the optically pumped semiconductor (OPS) vertical-external-cavity surface-emitting laser (VECSEL). Using diode laser pump, an OPS-VECSEL laser with a strain-compensated InGaAs-GaAsP-GaAs multiquantum-well (MQW) structure operated continuous-wave (CW) near  $\lambda/1004$  nm with record output power of 0.69 W in a TEM<sub>11</sub> mode, 0.52 W in a TEM<sub>00</sub> mode, and

0.37 W coupled to a single-mode ...

## **High-power (>0.5-W CW) diode-pumped vertical-external ...**

The Cobolt 05 -01 Series lasers are continuous -wave diode pumped laser (DPL) devices operating at a fixed wavelength between 355 nm and 1064 nm. The lasers are built using proprietary HTCure™ manufacturing technology for ultra-

## **High Power | Single Frequency | CW Diode pumped lasers**

The power amplifier consists of two amplifier heads that are pumped by four High-Power Intelligent Laser Diode System jointly developed by LLNL and Lasertel Inc [ 7 ]. It provides ~800 kW peak power per diode array in a 300 us pulse width at repetition rate up to 20Hz and in a 5.6 x 13.8 cm 2 beam area.

## **High average power, diode pumped petawatt laser systems: a ...**

Center for high power radiation sources ~2014/15 - PEnELOPE 150J in <150fs, >1Hz rep rate active medium (Yb:CaF 2) fully diode pumped system Petawatt, Energy-Efficient Laser for Optical Plasma Experiments

## **Overview of diode pumped high energy solid state lasers**

79.3 μJ pulse energy is the highest for diode-end-pumped Nd 3+ lasers at 1.1 μm.

## **New high-power 1.1-μm light source: Diode-pumped ...**

Published on Sep 29, 2013 A "Z-Fold" high power fiber coupled diode pumped Nd vanadate laser. A description of the design of this particular laser and general discussion of the considerations that...

## **High Power Diode Pumped Laser**

We report new observations on picosecond deep ultraviolet coherent beams generated in a CLBO as the fourth and fifth harmonics of a diode pumped high average power Yb:YAG thin disk laser operating at 77 kHz repetition rate at 1030 nm.

## **OSA | New observations on DUV radiation at 257 nm and 206 ...**

High power laser diode benches, containing 35 emitters each on a 4.5mm mini-bar, have already been tested up to 250W QCW peak power without COD. Nominal peak output power is 70W - 100W per bench. Only reliable process technologies as AuSn hard-soldering are applied already known from low poer devices.

## **New 808 nm high power laser diode pump module for space ...**

The large range of Lumibird pulsed nanosecond solid-state lasers includes diode-pumped models, from 5 mJ to 650 mJ at 1064 nm, from single pulse to 400 Hz. These lasers can be integrated into a system thanks to their compactness and robustness, or used as stand-alone devices.

## **RP Photonics Encyclopedia - diode-pumped lasers, DPSS ...**

The most common application of high-power diode lasers is to pump the gain media of solid-state and fiber-laser systems. Over the last two decades, the availability of high-power diode pumps at wavelengths like 808 nm has enabled enormous improvements in laser-system operating efficiency and compactness compared to traditional lamp-pumped lasers.

## **Diode-Laser Pumps - High-power diode lasers advance ...**

The new class of diode-pumped alkali vapor lasers (DPALs) offers high efficiency cw laser radiation at near-infrared wavelengths: cesium 895 nm, rubidium 795 nm, and potassium 770 nm. The working physical principles of DPALs will be presented.

## **New Class of CW High-Power Diode-Pumped Alkali Lasers ...**

Diode-pumped solid-state lasers are solid-state lasers 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.

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