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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 4...

Scientists

demonstrate new wavelength shift with diode ...

For the first time, we

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report diode-end-pumped Nd:LuYAG lasers at 1.1 μm . • 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 μJ pulse energy is the highest for diode-end-pumped Nd $3+$ lasers at 1.1 μm .

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

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 ...**

High power laser diode products for laser pumping offer a wide range of wavelengths, physical configurations, beam characteristics

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and other
characteristics. The
laser diode
configuration includes
single emitter, bar,
stacked array, fiber
coupled module and
bare chip, etc. The
output types are CW,
QCW and pulse output.

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

The new class of diode-
pumped alkali vapor

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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 ...

A new, scalable concept for diode-pumped high-power solid-state lasers is presented. The basic

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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 ...

Diode-Pumped Lasers: Performance, Reliability Enhance Applications. The latest

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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.

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**Diode-Pumped Laser
Lasers:
Performance,
Reliability Enhance**

...

High-power (>0.5 -W CW) diode-pumped vertical-external-cavity surface-emitting semiconductor lasers with circular TEM/sub 00/ beams Abstract: We report demonstration of a new high-power semiconductor laser

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Opak

technology, the optically pumped semiconductor (OPS) vertical-external-cavity surface-emitting laser (VECSEL).

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

SEO HAS BEEN BUILDING DIODE-PUMPED LASERS SINCE 1986 n Single-frequency sources – 1-W, Nd:YAG ring laser – 50-mW, Tm, Ho:YLF

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laser at 2.06 μm -
40-mW, tunable
Cr:LiSAF ring laser,
810-850 nm n Pulsed,
Q-switched (2.5 mJ)
miniature Nd:YAG laser
n Pulsed, 90-mJ Nd:YAG
rod laser n High-power,
bar-pumped cw lasers
- 1.6 W, 523-nm
doubled CW Nd:YLF
system

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

A diode-pumped solid-

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Qweak
A 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,

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Qpeak
and are now appearing
commonly in green and
other color laser
pointers .

Diode-pumped solid-state laser - Wikipedia

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 . It provides ~800 kW

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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. HILADS is the highest peak power and brightest pulsed diode light delivery system in the world.

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

PLD Pump Diodes.

IPG's high-power single-

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emitter diodes set the

company apart. from

competition with short-

lived diode bars and

stacks. IPG leverages

its legendary telecom

and fiber laser

reliability. with diode

technology providing

high power single

emitters.

PLD Laser Pump

Diodes | IPG

Photonics

Published on Sep 29,

2013 A "Z-Fold" high

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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

High average power,
diode pumped

Petawatt laser

systems: a new

generation of lasers

enabling precision

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science and
commercial
applications LLNL-
PRES-741315

This work was performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under contract DE-AC52-07NA27344. Lawrence Livermore National Security, LLC

**High average power,
diode pumped
Petawatt laser**

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systems: a ...

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.

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

Although the beam quality of high-power diode lasers is not perfect, it often allows for end pumping of lasers with very good overlap of laser mode and pump region, leading to high beam quality and power efficiency. In the domain of slab lasers, it allows edge pumping

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instead of face
pumping, which brings
important advantages.

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

HAPLS set a world record for diode-pumped petawatt lasers, with energy reaching 16 joules (J) and a 28 femtosecond (fs) pulse duration (equivalent to ~ 0.5 petawatt/pulse) at a

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3.3 hertz (Hz) repetition rate (3.3 times per second). In just three years, HAPLS went from concept to a fully integrated and record-breaking product.

LLNL meets key milestone for delivery of world's highest ...

We demonstrate direct production of a high power

Laguerre-Gaussian

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mode from a diode-pumped Nd:YVO₄ 1.3- μ m bounce amplifier with an asymmetric cavity configuration. A maximum LG output of 7.7 W is obtained.

OSA | Direct generation of high power Laguerre-Gaussian ...

The a-cut Tm:LiLuF(4) slab with doping concentrations of 2 at.% was pumped by

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Qpeak
fast-axis collimated
laser diodes at room
temperature. The
maximum continuous-
wave output power of
10.4 W was obtained
while the absorbed
pump power was 31.6
W and the cavity
length was 30 mm.

Copyright code: d41d8
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ecf8427e.

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