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electrical current can create lasing conditions at the diode's junction.: 3
Laser diodes can directly convert electrical energy into light. Driven by voltage, the doped p-n-transition allows for recombination of an electron with a hole.

Laser diode - Wikipedia

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Photonic Crystal. Photonic crystals are periodic dielectric structures that are designed to form the energy band structure for photons, which either allows or forbids the propagation of electromagnetic waves of certain frequency ranges, making them ideal for light-harvesting applications (Maka et

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al., 2003).

**Photonic Crystal - an overview |
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Perovskites: Mechanisms and
Applications. Weili Shen, Jun Chen*,
Jinqiang Wu, Xiaoming Li, and ; Haibo
Zeng* ACS Photonics 2021, ...

ACS Photonics | Vol 8, No 1

10 Gigabit Ethernet (10GE, 10GbE, or 10 GigE) is a group of computer networking technologies for transmitting Ethernet

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frames at a rate of 10 gigabits per second. It was first defined by the IEEE 802.3ae-2002 standard. Unlike previous Ethernet standards, 10 Gigabit Ethernet defines only full-duplex point-to-point links which are generally connected by network switches; shared-medium CSMA/CD ...

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10 Gigabit Ethernet - Wikipedia

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Surface Chemistry of CuInS₂ Colloidal Nanocrystals, Tight Binding of L-Type Ligands; Nonenzymic biogenetic-like olefinic cyclizations. Cyclization of 1-methyl-6-(trans, trans-7,11-dimethyl-3, 7,11-dodecatrienyl)-2-cyclohexen-1-ol

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Most optoelectronic devices share the same basic epitaxial structure – a stack of quantum wells (QWs) sandwiched between p- and n-doped layers. In nitride semiconductors, where holes have 20-times lower mobility than electrons, the holes are able to populate

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only the topmost 1-2 QWs. The inability to distribute the holes in a large-enough number of QWs is a cause of high Auger

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(Japan), (2) Minia university (Egypt)
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toward high-speed and single-mode
operations. The intracavity metal
contact causes the transverse resonance
which provides the modulation
bandwidth enhancement.

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protection ring architectures and

applications in Journal of Lightwave

Technology, 23(10), pp. 3388-3403

(Ming-Jun, L., Soulliere, M. J., Tebben, D.

J., Nderlof, L., Vaughn, M. D. and R. E.

Wagner, R. E. 2005), with permission

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Figure 15.46 from Hybrid DWDM-TDM

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