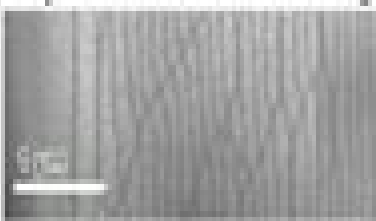
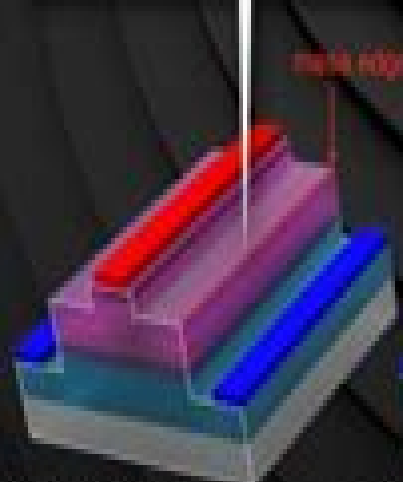


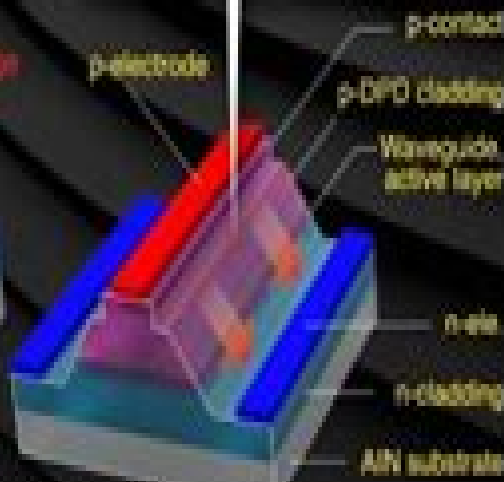
Crystal defects inhibit lasing



Completely free of defects



Conventional



New design

(Sloped mesa structure for local stress control)

ToF LIDAR

Blue-ray

DVD

CD

1962 Realization of semiconductor lasers

1980 Dawn of nitride semiconductors

1995 Nitride-based blue-violet laser diodes are realized

2019 First demonstration of pulsed operation of a deep-UV laser diode

2022 Achieved continuous-wave lasing of 274 nm deep-UV laser diode

Wide-ranged potential applications

Material Processing

Semiconductor Medical Applications

Measurement & Analysis of DNA, particulates

Visible



750nm

380nm

Deep UV

274nm

Solid State Maser

N Noddings



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