

I

LED(light-emitting diode) p-n

(monochromatic light)

(electroluminescence)

, LED

energy,  $E_g$ )

(bandgap

, 가

LED

LED

, 1993

(Nichia)

Nakamura

GaN

가

1990

LED

[연재 일정 안내]

2005. 1		
2005. 2	가 ( / / )	
2005. 3	가	
2005. 4	3 (ABS )	
2005. 5	LED	
2005. 6		
2005. 7		
2005. 8		
2005. 9	[CMOS, CCD]	
2005. 10	( 가 ( , , 가 )	
2005. 11	가	
2005. 12	[ ]	

- / : Tel)02-3459-2865, 2871  
- / : Tel)02-3459-2869

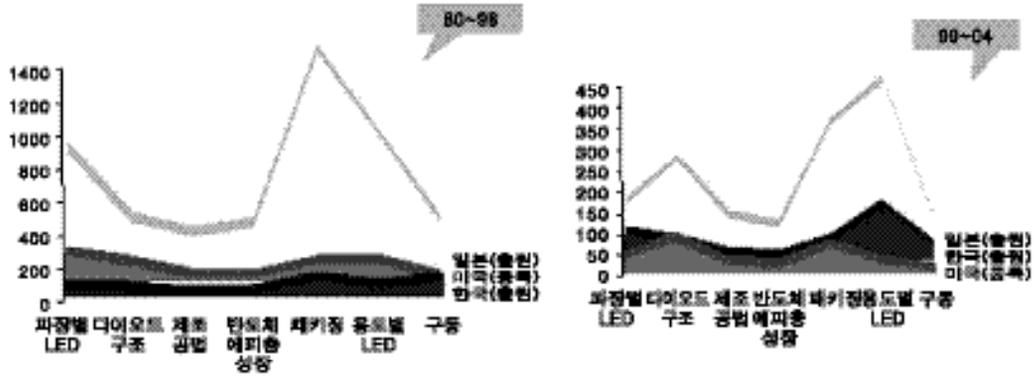
- / : Tel)02-3459-2863  
- / : Tel)02-3459-2864

가

(LASER) “

”

"Light Amplification by Stimulated Emission of Radiation"



[ 1 ] LED 가 /

(LD)

( )

가 ,

가

가

(LD) 가

II

LED

LED,

LED

LED

, Electrode , LPE, VPE, MBE,

MOCVD

가

LD 3가

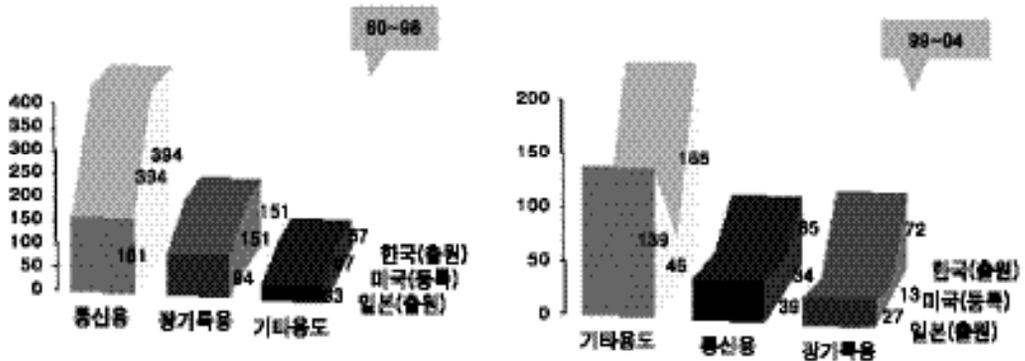
Laser Pumping,

가

III

Solid State

가

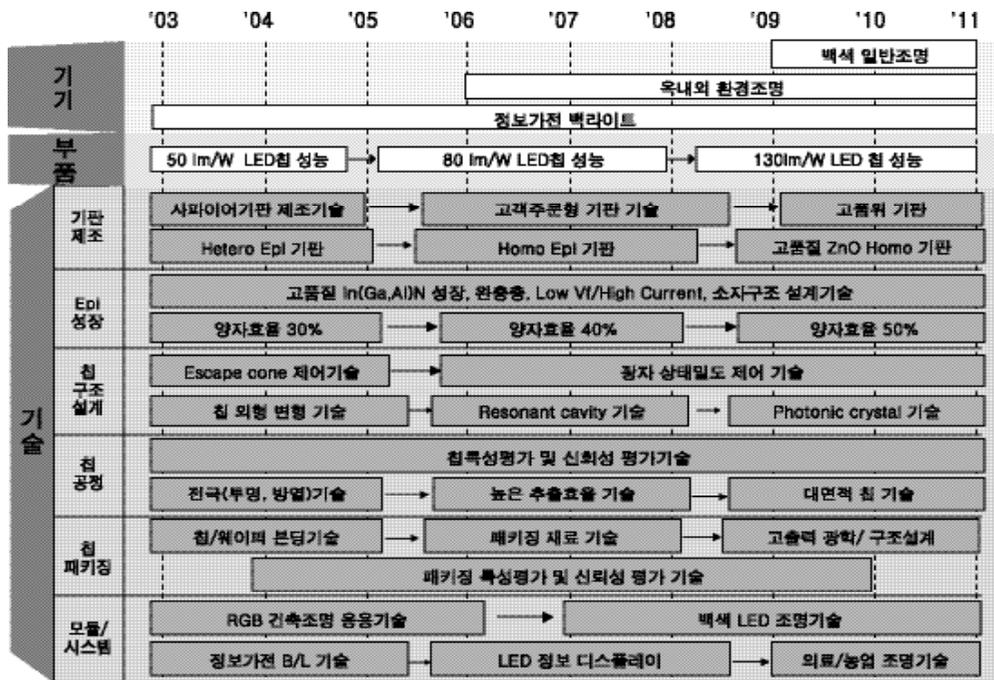


[ 2 ] LD 가 /

LED 가 , , , 가 ,가 , , , LED

[ 1 ] LED

LED									FAB
									LED
									LED
LD									Photonic Crystal
									25GB LD
									HDVD
									가
									LD



[ 3 ] LED TRM(Technology Road Map)