

Fig. 1. (a) Initial growth structure, (b) Photoluminescence measurement from initial growth structure.

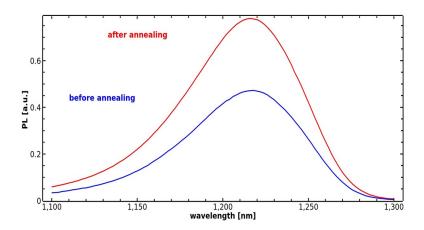


Fig. 2. Photoluminescence of initial growth structure before and after annealing, which simulates the thermal effect of the regrowth.

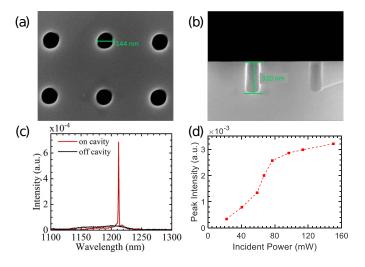


Fig. 3. (a) Top down (b) Cross sectional SEM image of PCSEL devices (c) Photoluminescence emission measurement from PC off cavity (black) and on cavity (red) and (d) L-L curve.