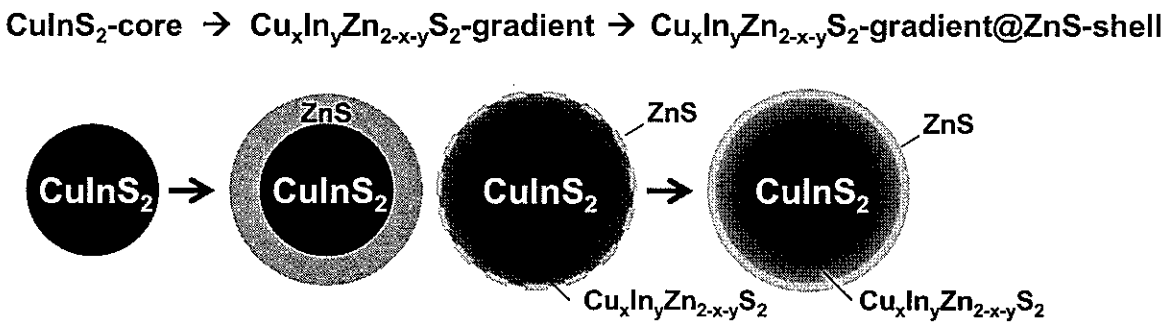

$CuInS_2$-core → $Cu_xIn_yZn_{2-x-y}S_2$-gradient → $Cu_xIn_yZn_{2-x-y}S_2$-gradient@ZnS-shell
ZnS
$CuInS_2$
$Cu_xIn_yZn_{2-x-y}S_2$

**Fig. 1**

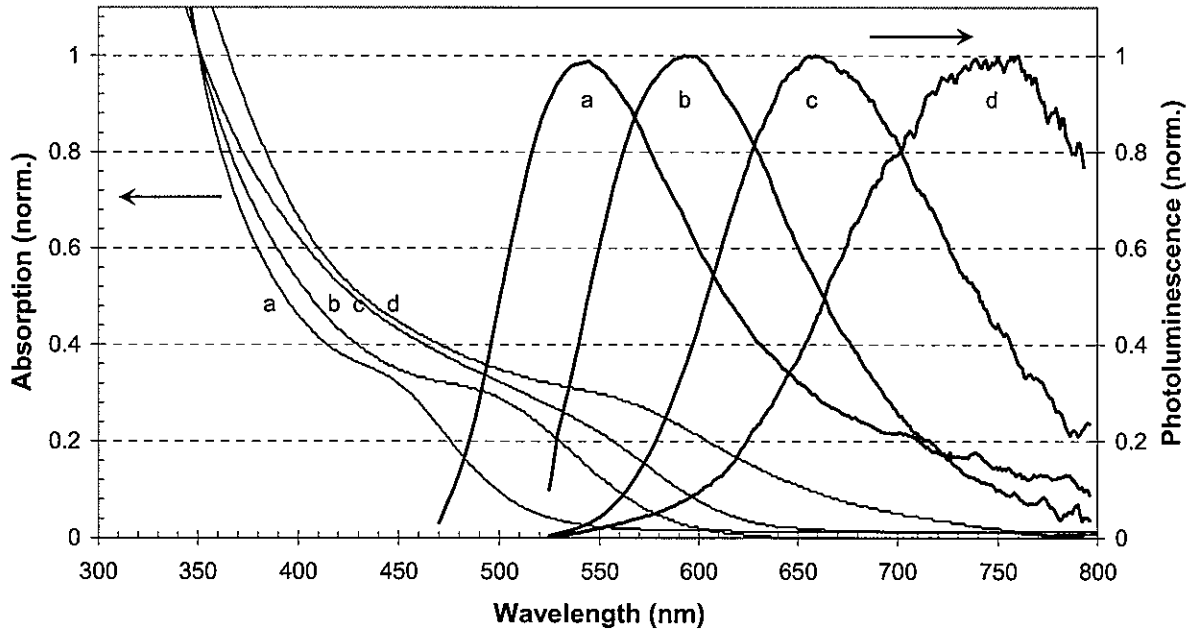

Absorption (norm.)
Photoluminescence (norm.)
Wavelength (nm)
a
b
c
d
0
0.2
0.4
0.6
0.8
1
300
350
400
450
500
550
600
650
700
750
800

**Fig 2**

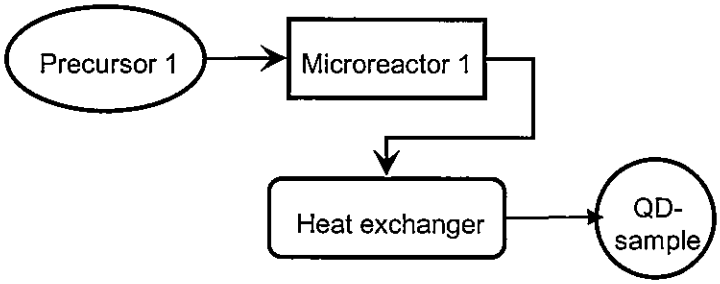

Precursor 1
Microreactor 1
Heat exchanger
QD-sample

**Fig 3:**

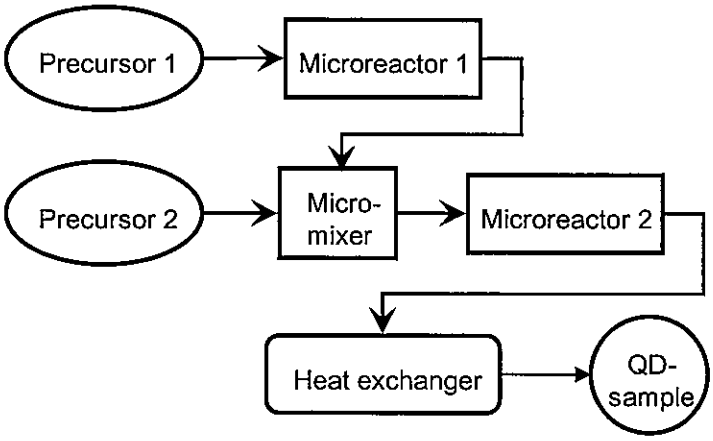

Precursor 1
Microreactor 1
Precursor 2
Micro-mixer
Microreactor 2
Heat exchanger
QD-sample

**Fig. 4**

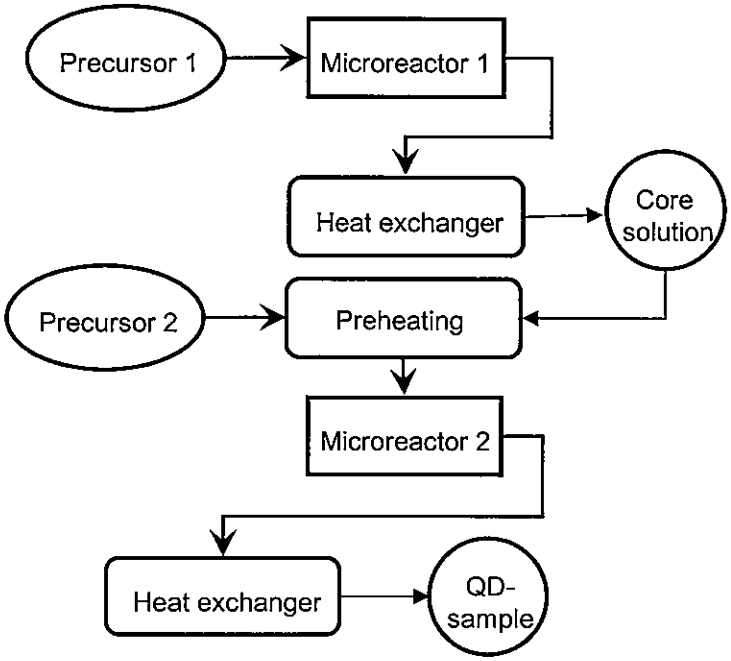

Precursor 1
Microreactor 1
Heat exchanger
Core solution
Precursor 2
Preheating
Microreactor 2
Heat exchanger
QD-sample

Fig. 5