

Figure 1. Plan-view of ZnO QDs with surface pretreatment by transmission electron microscopy (TEM), with a DEZn exposure time of (a) 0.03s, (b) 0.02s and (c) 0.01s; (d)-(f) show ZnO QDs having the same growth parameters as those in (a)-(c) but without surface pretreatment. Scale bars are 50 nm.

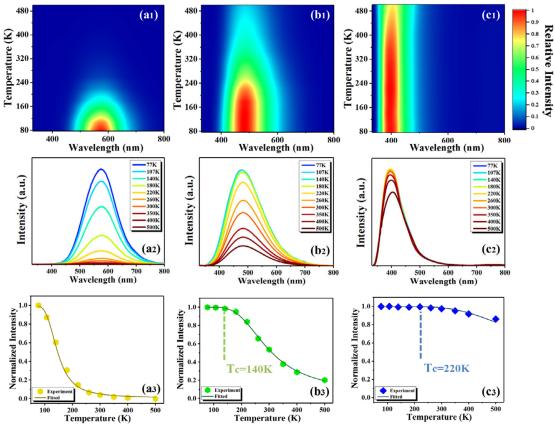


Figure 2. Temperature-dependent PL spectra from 77 to 500K for ZnO QDs with an emitting wavelength of (a) 580 nm, (b) 475 nm and (c) 395 nm.