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Effect of growth temperature on the optical properties of ZnO nano-structure grown by simple hydrothermal method

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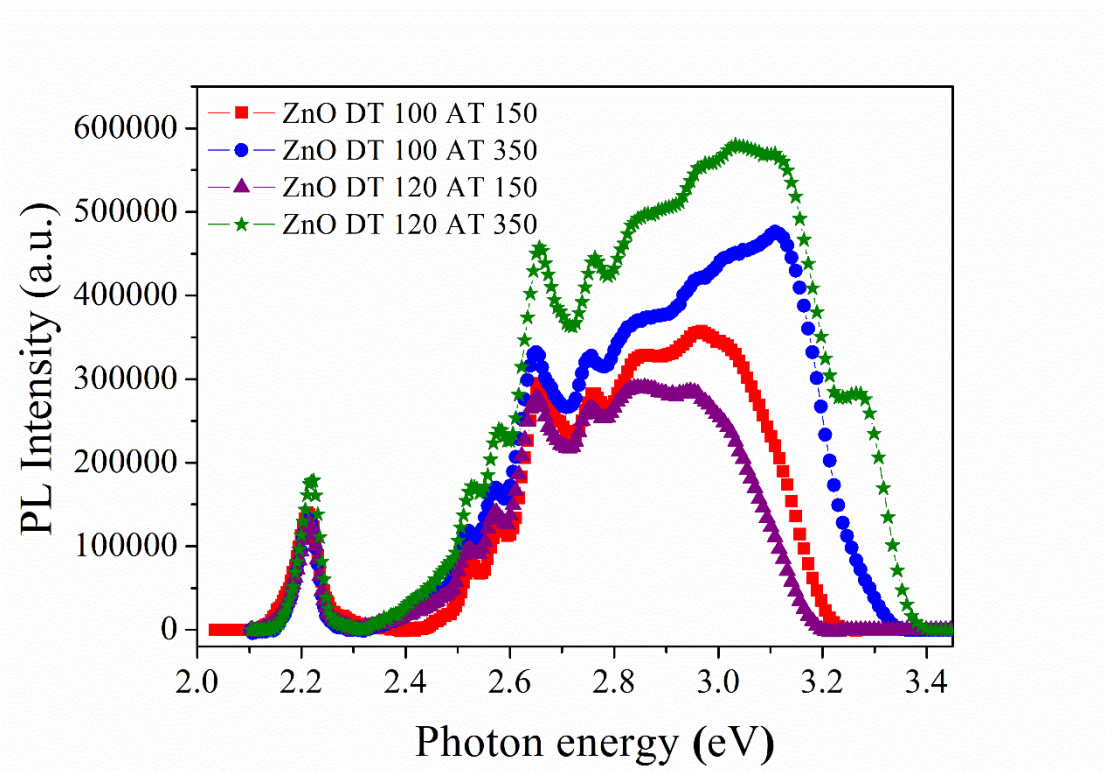

Fig 1. Room Temperature PL spectra of ZnO nanostructures with different growth and annealing temperature.

Table 1: Energy, Full Width at Half Maximum (FWHM) and Intensity of the Lorentzian peaks fitted to the Raman Spectrum of Pure and 2% Sr doped ZnO nanostructure

ZnO, deposition temp 120, anneal temp 350			Sr 2% doped ZnO, deposition temp 120, anneal temp 350		
Peak position	FWHM	Intensity	Peak position	FWHM	Intensity
98.48	1.59	9449.33	99.50	3.18	7711.79
332.97	16.17	556.62	332.06	24.24	858.13
382.03	80.91	587.60	382.04	31.35	515.55
437.59	6.83	5709.30	438.44	7.08	8021.41
581.87	134.18	1148.64	582.42	48.95	1267.00
			663.76	33.25	739.06