

Role of Oxygen Vacancy Sites on the Temperature-dependent Photoluminescence of SnO₂ Nanowires

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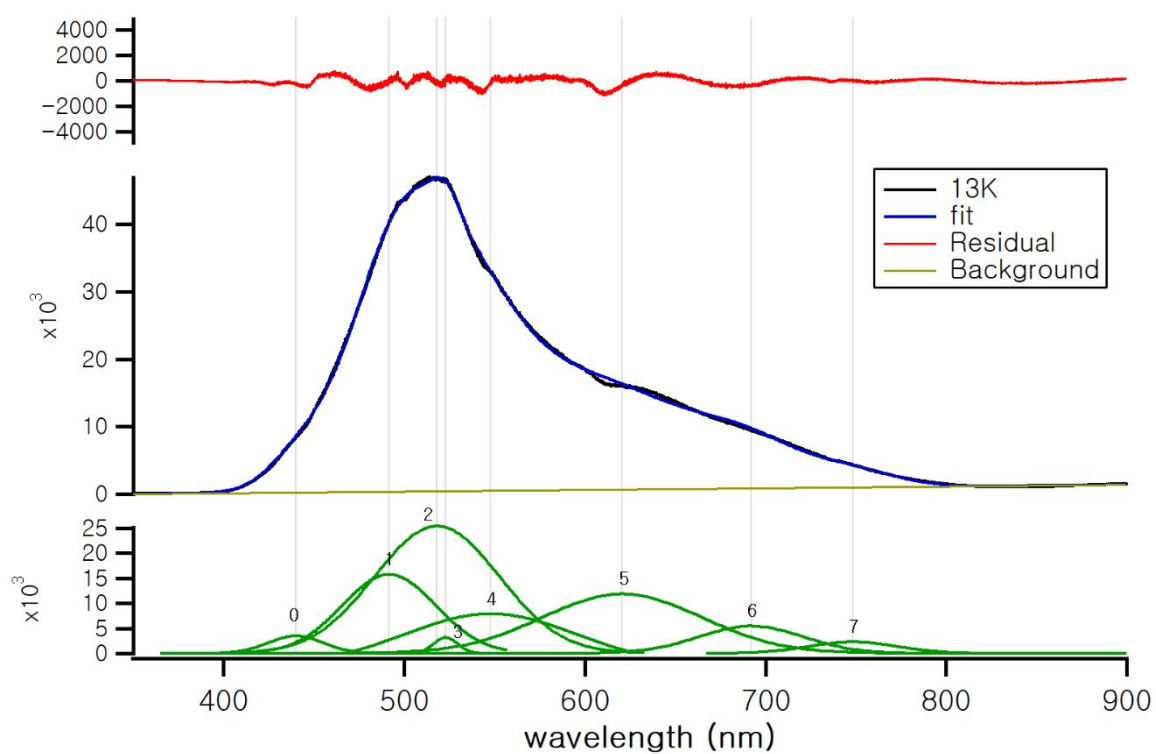


Figure S1. Deconvolution analysis of the PL spectrum of SnO₂ nanowires at 13 K.

Table S1. Deconvolution analysis results in Figure S1.

	Peak 0	Peak 1	Peak 2	Peak 3	Peak 4	Peak 5	Peak 6	Peak 7
Location	440	491.675	518.16	522.973	548	620.644	691.981	748.49
FWHM	36.199	61.296	81.198	15.93	112.68	104.36	68.997	57.829
Amplitude	3473.62	15752.6	25393	3151.98	10398.3	11841.6	5451.3	2276.77
Area	133850	102780	219480	53448	124730	131540	400370	140150

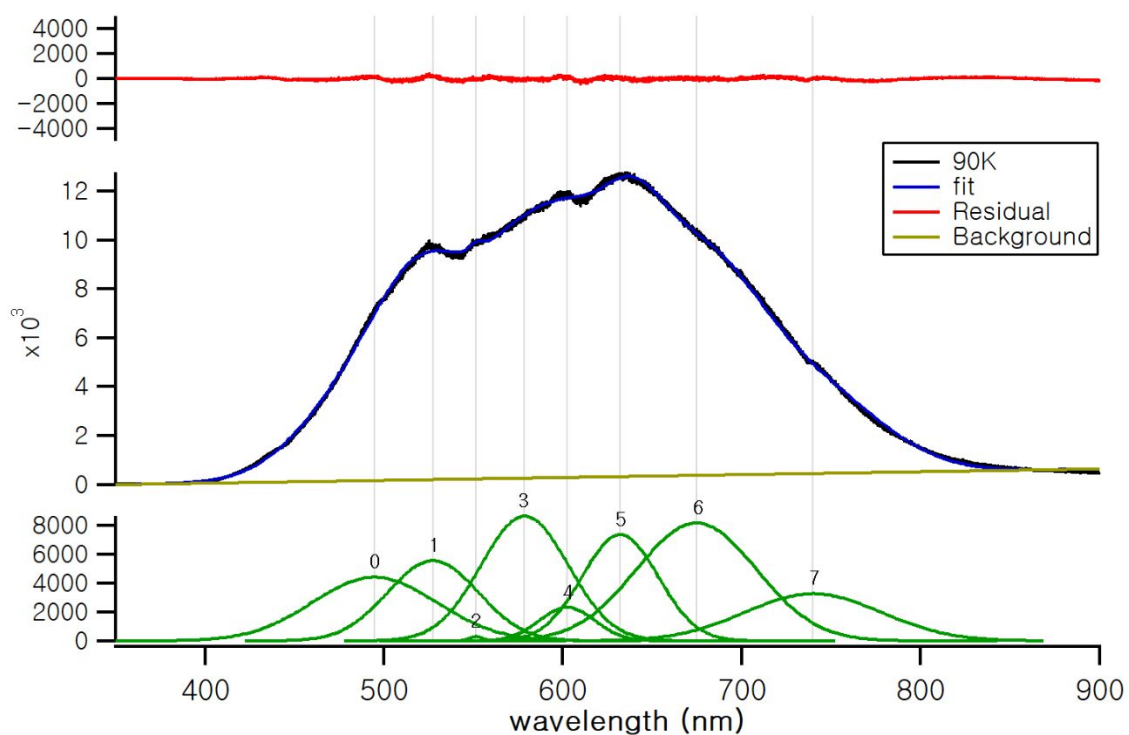


Figure S2. Deconvolution analysis of the PL spectrum of SnO₂ nanowires at 90 K.

Table S2. Deconvolution analysis results in Figure S2.

	Peak 0	Peak 1	Peak 2	Peak 3	Peak 4	Peak 5	Peak 6	Peak 7
Location	494.756	527.393	551.54	578.63	602.431	632	674.69	739.82
FWHM	82.105	59.76	9.2702	57.583	36.863	50.246	79.197	90.396
Amplitude	4403.69	5550.81	310.84	8622.1	2332.49	7337.05	8146.2	3260.46
Area	384880	353100	3067	528500	91525	392420	686750	313730

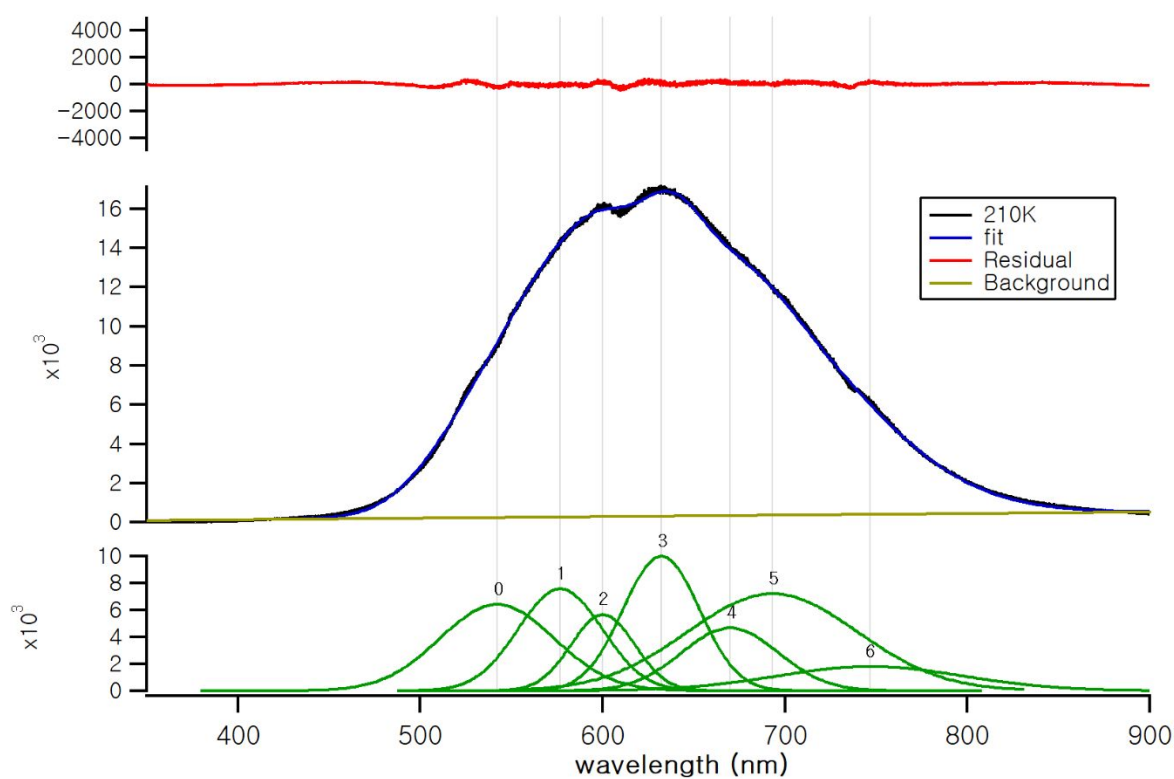


Figure S3. Deconvolution analysis of the PL spectrum of SnO₂ nanowires at 210 K.

	Peak 0	Peak 1	Peak 2	Peak 3	Peak 4	Peak 5	Peak 6
Location	542.067	576.72	600.113	632.079	669.831	693.144	746.577
FWHM	74.137	54.478	41.175	49.24	62.803	110.31	121.38
Amplitude	6418.22	7578.79	5666.39	10011.4	4675.87	7209.34	1805.47
Area	506500	439490	248360	524740	312590	846540	233280

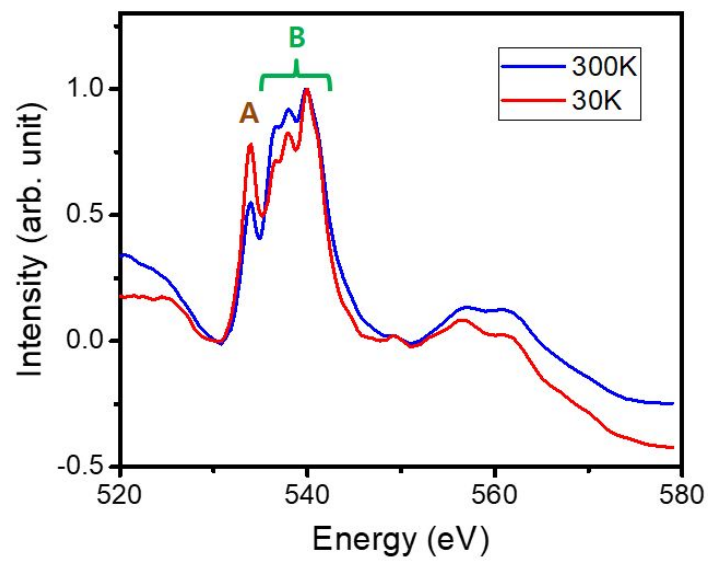


Figure S4. Comparison of Oxygen *K*-edge spectra in SnO₂ taken at 30 K (red) and 300 K (blue) in fluorescence mode.