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Nearly white light photoluminescence from ZnO/rGO nanocomposite prepared by a one-step hydrothermal method

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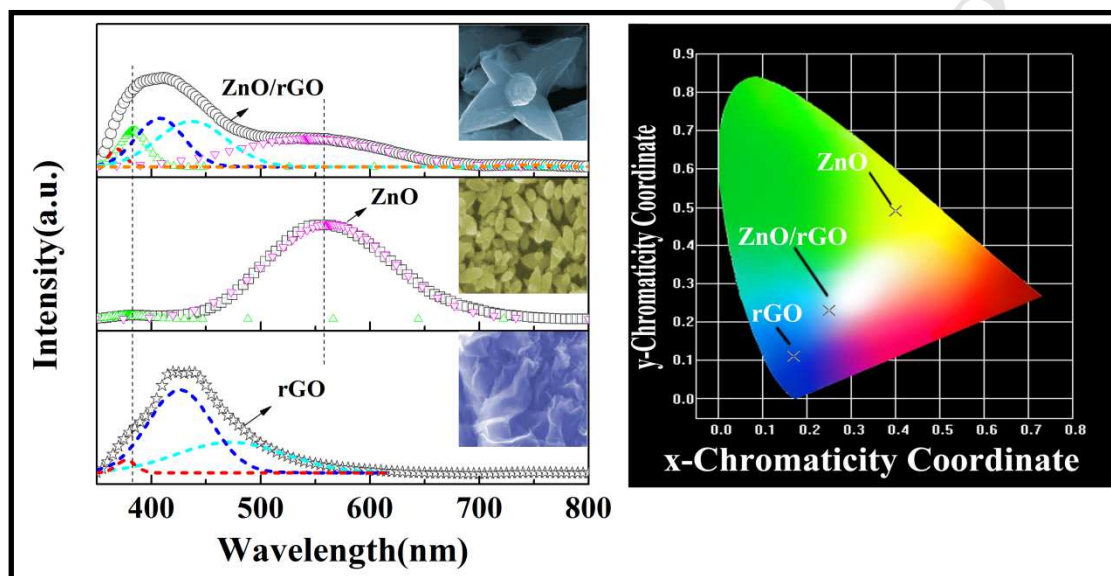
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## Graphical abstract

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# Nearly white light photoluminescence from ZnO/rGO nanocomposite prepared by a one-step hydrothermal method



A ZnO/rGO nanocomposite was prepared by a facile one-step hydrothermal method, and nearly white light photoluminescence with a chromaticity coordinate of ( $\sim 0.25$ ,  $\sim 0.23$ ) was achieved. The analysis on the luminescence mechanism disclosed that the emissions originated from the radiative recombination of ZnO and rGO, and the synergistic effect between the two constituent parts plays an important role in modulating the PL peak positions and intensities through enhancing or restraining the transport and transition process.

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