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## OPTICAL AND STRUCTURAL CHARACTERIZATION OF THIN FILMS

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is difficult and these crystals are highly hygroscopic in nature<sup>16</sup>. The growth and

characterization of the above crystal was published by Mahadevan et.al.,

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science, the optical properties of carbon nanotubes refer specifically to the

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rod-shaped nanoparticles stems from their

unique optical properties, which can be

approximated by Mie's theory., Spinel

( $MgAl_2O_4$ ) is the magnesium

aluminium member of the larger spinel group

of minerals. It has the formula  $MgAl_2O_4$  in

the cubic crystal system. Its name comes

from Latin "spina" (arrow). Balas ruby is an

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