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A CASE STUDY

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Solvothermal synthesis of chitosan quantum dots using different solvents

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ABSTRACT

In this current research, carbon quantum dots were synthesized by solvothermal synthesis method, using different solvents. The different solvents which were used for synthesis of carbon dots were 5-Sulphosalicylic acid, and Salicylic acid. In this method 1 per cent salicylic acid and 2 per cent 5-Sulphosalicylic acid was used with ethanol in hydrothermal bomb for 4 hours at 140°C. After the synthesis period a luminescence was seen with both the solvents. The solvents produced green, violet and blue fluorescence at different wavelengths of UV light.

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