

MD.22.

Title	Sugar based Carbon Quantum Dots for luminophores applications.
Authors	Loşmanschii C, Podgornii D, Secrieru V, Munteanu E, Gorgan D.
Institution	Technical University of Moldova
Patent no.	Pending patent registration
Description	Based on their luminescent properties, carbon nanoparticles

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(CQD) are promising materials in the field of luminophores applications. Using different carbonization precursors and carbon sources, allows shifting of absorption and luminescence wavelength maxima. The usage of various polar solvents increases the quantum yield of CQD, which permits CQD encapsulation in different polymeric matrices, soluble in the same solvents. This process represents an optimization of synthesis methods using ecofriendly synthetic materials and techniques. The applied synthetic approach permits obtaining CQD with high quantum yield, which can be used as cheap and efficient luminophores.

Class no.

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