

عنوان مقاله:

A Novel Facile Synthesis Route for Nano-sized Zn(II) Schiff base Complex and Nano-sized ZnSe/ZnO

محل انتشار:

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خلاصه مقاله:

Nano- sized of 2,2 -((1E, 1E)-(1, 2 phenylen bis (azanylylidene)) bis (methanylylidene)) bis (4-bromo phenolato) Zn (II) Schiff base complex was quickly synthesized in mild condition by ultrasonic irradiation. The Zn (II) complex was characterized by FT-IR, ¹HNMR, FESEM as well as electronic and fluorescence property measurements. Based on the results of these analyses, the geometry of Zinc (II) Schiff base complex suggested a square-planar geometry. Antimicrobial activities of the ligand and Zinc (II) complexes were also investigated. The electronic and fluorescence bands of nano complex show a shift in comparison to the bulk sample analogue, duo to the reduction of particle size in nano scale. In continuation of our study, ZnSe/ZnO nano sized with 30 nm in average sizes was prepared, by reflux .condensation method, using this complex as a new precursor

کلمات کلیدی:

Schiff base complex, Nano, ZnSe/ZnO, ultrasonic, FESEM

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