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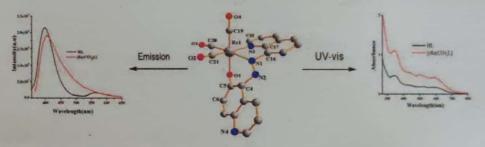
June 2019

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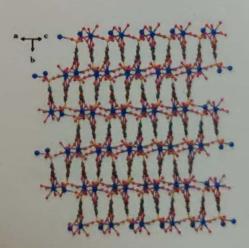
621 computational investigations

Luminescent rhenium(I) complex of azo ligand A quinoline based mononuclear Re(I) complex having N. N. O based on quinoline: Synthesis, characterization and coordination environment is complex is isolated and characterized by different spectroscopic measurements. Single crystal X-ray spectroscopic structure of the representative complex has been determined. The quantum yield of the complex is also calculated and the photoluminescence behavior and the electronic structure of the complex is nicely explained by DFT and TDDDFT calculations.



Debopam Sinha, Sankar Prasad Parua* & Kajal Krishna Rajak*

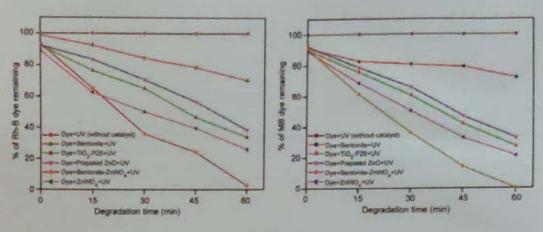
Hydrothermal synthesis, crystal structures and The two adjacent layers are bridged by HL2- ligands to form a 3D 629 properties of two alkaline earth metal coordination pillared open framework structure. The distant between the adjacent polymers with 3D pillared open framework structures layers is of 8.94 Å. basedon trifunctional aromatic ligands



Lei Guan*, Xin Wang & Ying Wang

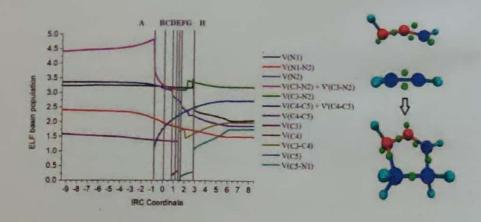
637 supported ZnWO,

Photocatalytic activity of natural clay Bentonite Prepared photocatalyst Bentonite-ZnWO4 is more efficient in degradation of a) Rh-B and b) MB, under the UV light than other catalyst.



G Ida, K Thirumalai, M Swaminathan* & D Easwaramoorthy*

[3+2] BET study of 32CA of nitrile imine in ELF basin population Understanding geometry and cycloadditions of nitrile imine in terms of molecular calculated along IRC pathways in different phases with the nuclear 645 configuration for these phases. electron density theory



Nivedita Acharjee

Guide to Authors 653

Authors for correspondence are indicated by (*)