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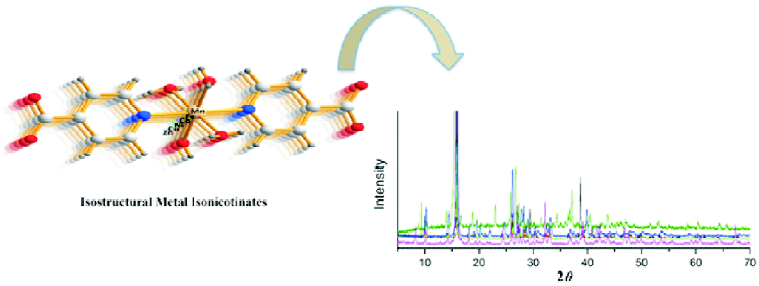
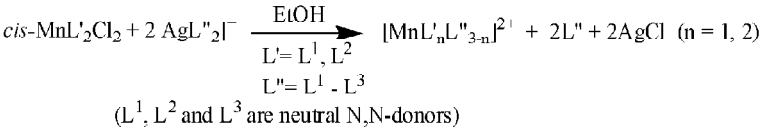
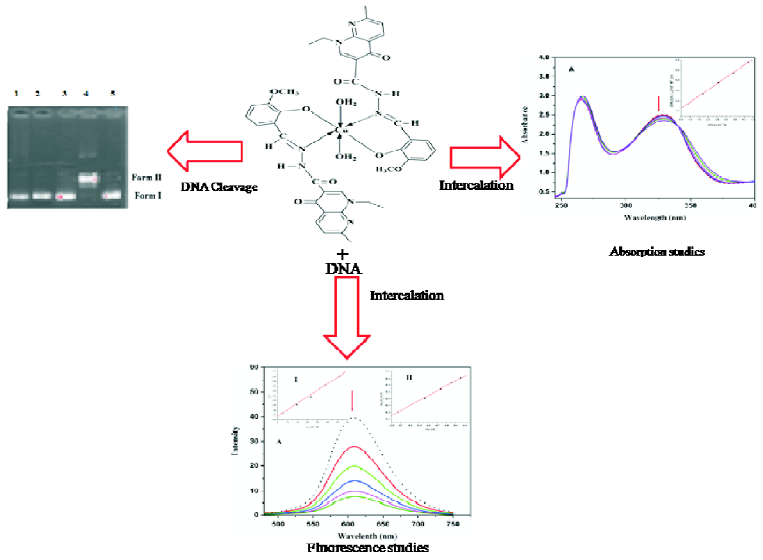
VOLUME 96 NUMBER 3 MARCH 2019

C O N T E N T S

Inorganic Chemistry



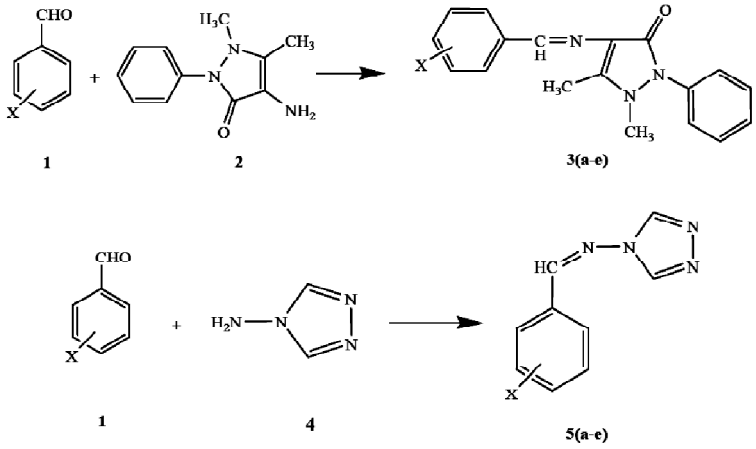




Synthesis of a series of new Schiff bases having heterocyclic moiety and their microbial activity

R. Behal, S. Sharma, T. Bansal, J. Gaba and S. Kaur

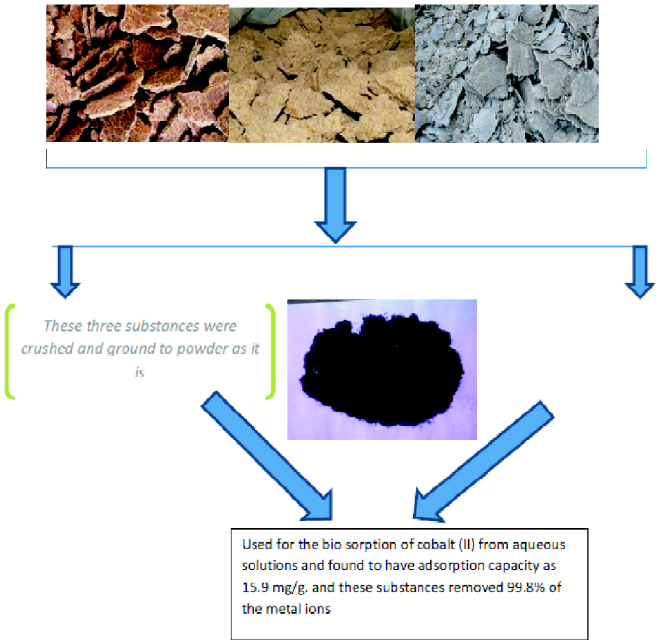
pp. 349-354



Utilization of three low cost bio adsorbents in their native as well as carbonized forms for the removal of cobalt(II) from aqueous solutions

G. V. S. R. Pavan Kumar, K. Srinivasa Rao and Sk. Imran

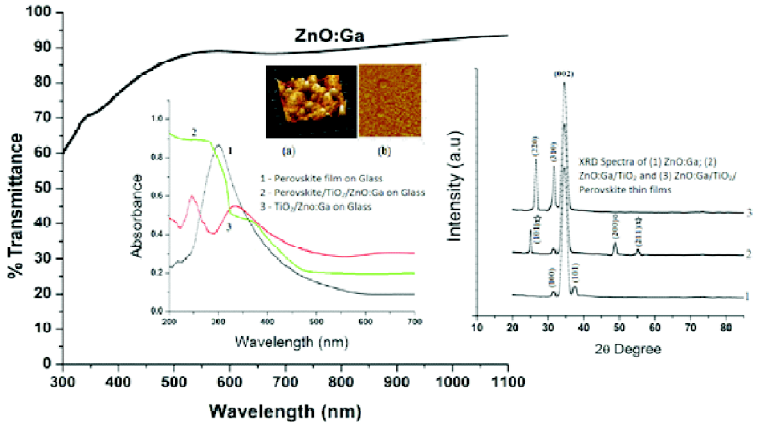
pp. 355-361



Physical Chemistry

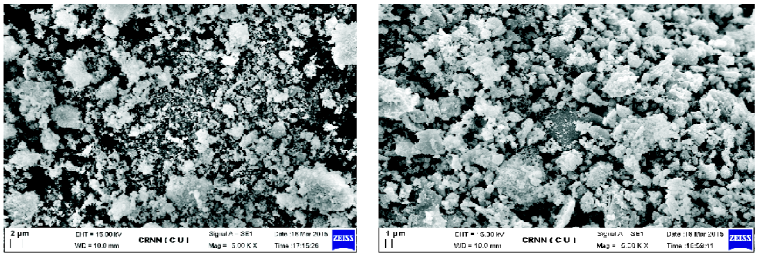
Synthesis and characterization of organic-inorganic perovskite material for solar cell application

Himadri Sekhar Das, Prasanta Kumar Nandi, Sajal Biring and Rajesh Das



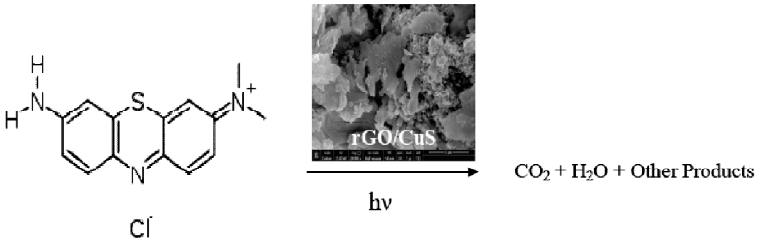
Synthesis and characterization of cordierite precursor derived by semi-colloidal sol-gel route

G. Pahari, D. Ray and T. K. Parya



Reduced graphene oxide/CuS nanocomposite as an efficient photocatalyst for degradation of azure A

Ruchi, Suresh C. Ameta and Rakshit Ameta



Binding energy and dissociation energy of alkali halide and alkali hydride molecules

Manas Pramanik and Jagdhar Mandal

The interection potential model (IPM) by Rittner is- $U(r) = -z_1 z_2 \frac{e^2}{r} + \Psi_R(r)$ (1)

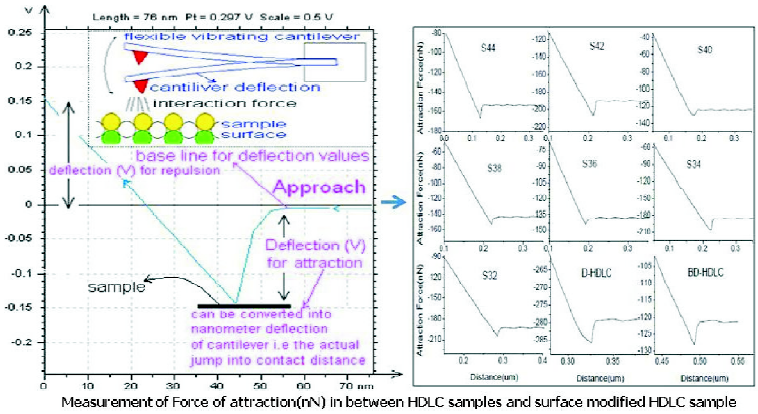
Considering the effect of the polarizability of the molecules, covalent effect and effect of Van der Walls dispersive force in the IPM is now be expressed as--

$$U(r) = -\frac{e^2}{r} - \frac{e^2(\alpha_1+\alpha_2)}{2r^4} - \frac{c}{r^6} + \Psi_R(r) \qquad (2)$$

General form of repulsive interactions is $\Psi_R(r) = (S_i/r^m)\exp(-r^n/\rho_i)$ Where S_i, ρ_i, m, n are potential parameter. S_i is the repulsive strength parameter and ρ_i is the repulsive softness parameter.

Surface morphological characterization of hydrogenated diamond-like carbon and surface modified hydrogenated diamond-like carbon by scanning probe microscope

Hari Shankar Biswas

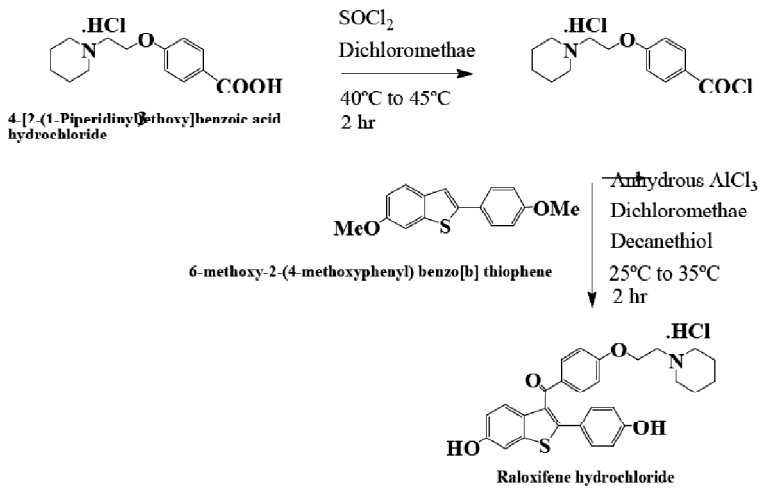


Measurement of Force of attraction(nN) in between HDLC samples and surface modified HDLC sample

Organic Chemistry

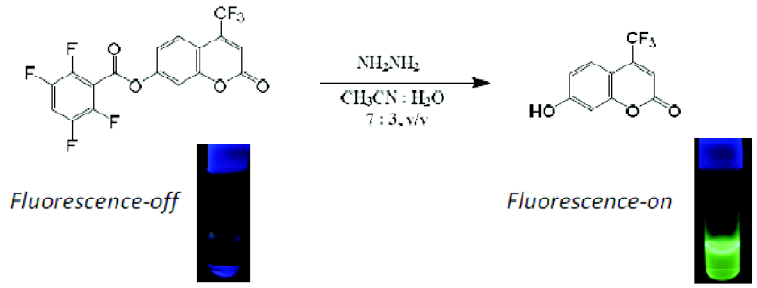
A green process for demethylation reaction in synthesis of raloxifene hydrochloride

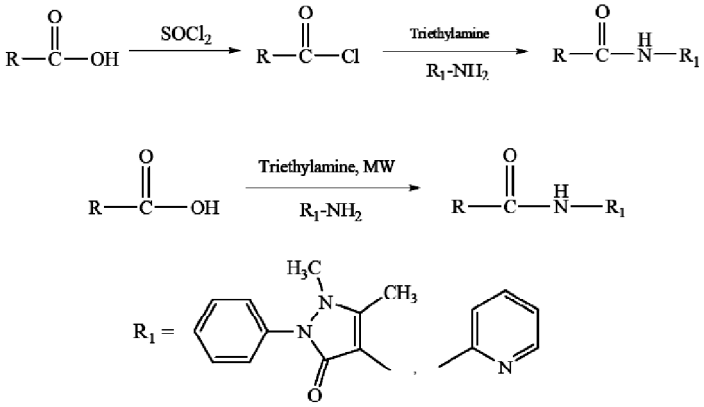
Ramadas Chavakula, Chakradhar Saladi J. S., Narayana Rao Mutyala, Vijaya Raju Maddala and Raghu Babu K.



Coumarin-based fluorescent chemodosimeter for selective sensing of hydrazine in semi-aqueous medium

Sankar Prasad Parua, Sumit Chakraborty, Kalipada Sau and Indrajit Saha





1 R = $-CH_2OC_6H_5$, $R_1 = -C_{12}H_{14}N_2O$

2 R = $-CH_2OC_6H_5$, $R_1 = -C_6H_7N$

3 R = $-CH_2C_6H_4Cl$, $R_1 = -C_{12}H_{14}N_2O$

4 R = $-CH_2C_6H_4Cl$, $R_1 = -C_6H_7N$

5 R = $-CCl_3$, $R_1 = -C_{12}H_{14}N_2O$

6 R = $-CCl_3$, $R_1 = -C_6H_7N$

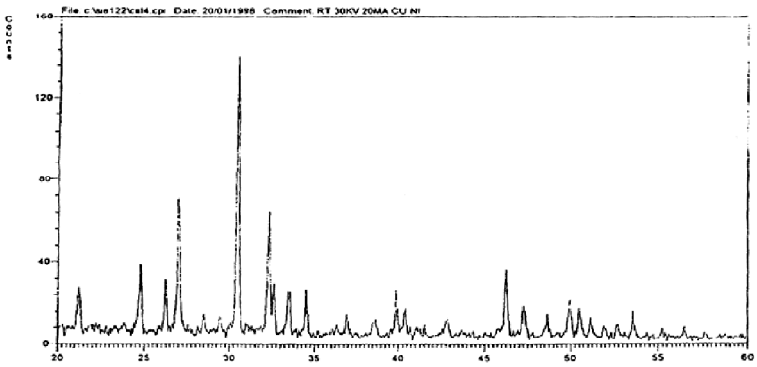
7 R= $-CH_2Cl$, $R_1 = -C_{12}H_{14}N_2O$

8 R= $-CH_2Cl$, $R_1 = -C_6H_7N$

9 R= $-CH_3$, $R_1 = -C_{12}H_{14}N_2O$

10 R= $-CH_3$, $R_1 = -C_6H_7N$

Analytical Chemistry



Removal of fluoride from drinking water using bi-metallic nano-adsorbent $MnFe_2O_4$ prepared by chemical route

Julekha Khatun, Mrinal Kanti Adak and Debasis Dhak

pp. 413-418