

# European Journal of Chemistry

An International Open Access Journal

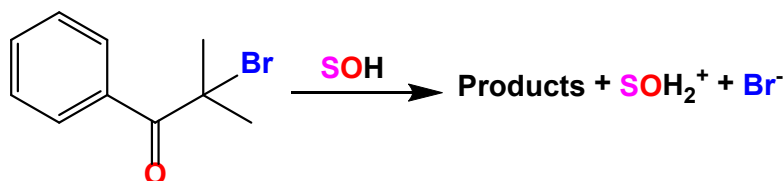
## Graphical Contents

Volume 9, Issue 1, 31 March 2018

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**Correlation of the rates of solvolysis of  $\alpha$ -bromoisobutyrophenone using both simple and extended forms of the Grunwald-Winstein equation and the application of correlation analysis to related studies**

Dennis Neil Kevill, Chang-Bae Kim and Malcolm John D'Souza



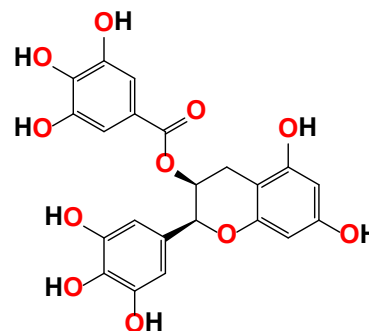
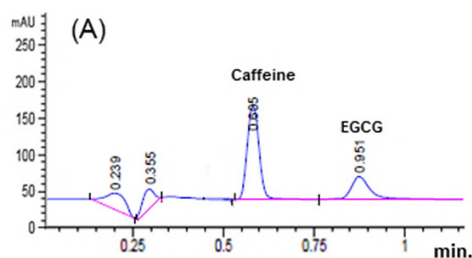
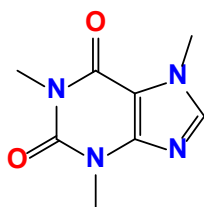
$$\log(k/k_0) = 0.63 N_T + 0.58 Y_{\text{Br}} + 0.11 \quad (r = 0.970)$$

Comparisons are made to previous studies of the corresponding methanesulfonate and related compounds.

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**Development and validation of a simple and rapid UPLC method for the *in-vitro* estimation of (-)-epigallocatechin-3-gallate in lipid-based formulations**

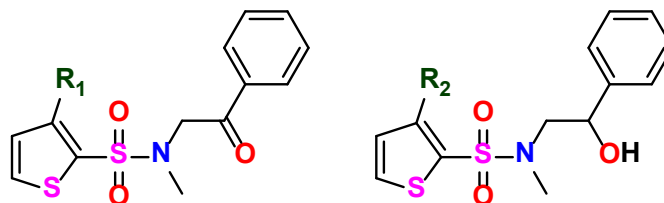
Maha Osama El-Kayal, Maha Nasr Sayed, Nahed Dawood Mortada and Seham Elkheshen



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**Synthesis of new 3-(substituted-phenyl)-N-(2-hydroxy-2-(substituted-phenyl)ethyl)-N-methylthiophene-2-sulfonamide derivatives as antiproliferative agents**

Chandrakant Pawar, Dattatraya Pansare and Devanand Shinde



**Antiproliferative Activity**

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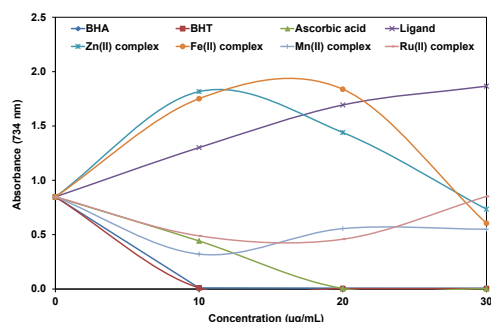
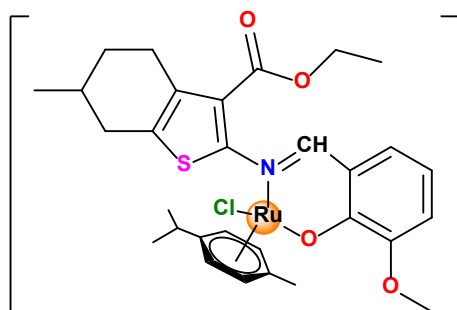
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**Synthesis, characterization and antioxidant activity of Schiff base and its metal complexes with Fe(II), Mn(II), Zn(II), and Ru(II) ions: Catalytic activity of ruthenium(II) complex**

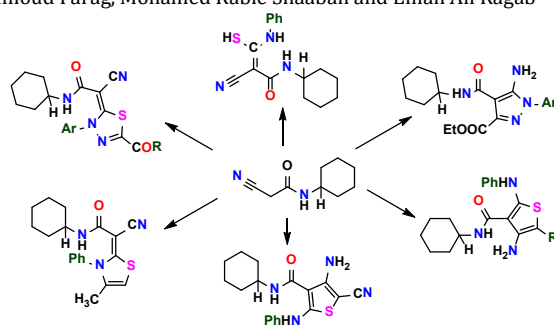
Nevin Turan and Kenan Buldurun



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**Synthesis and DFT study of novel pyrazole, thiophene, 1,3-thiazole and 1,3,4-thiadiazole derivatives**

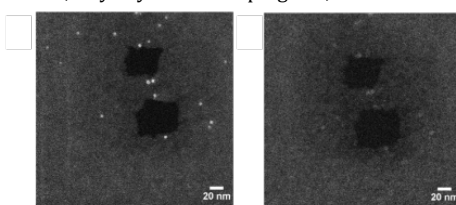
Asmaa Mahmoud Fahim, Ahmad Mahmoud Farag, Mohamed Rabie Shaaban and Eman Ali Ragab



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**Comparison of the observed size-dependent melting point of CdSe nanocrystals to theoretical predictions**

Albert Demaine Dukes III, Christopher Dylan Pitts, Anyway Brenda Kapingidza, David Eric Gardner and Ralph Charles Layland



Before Melting

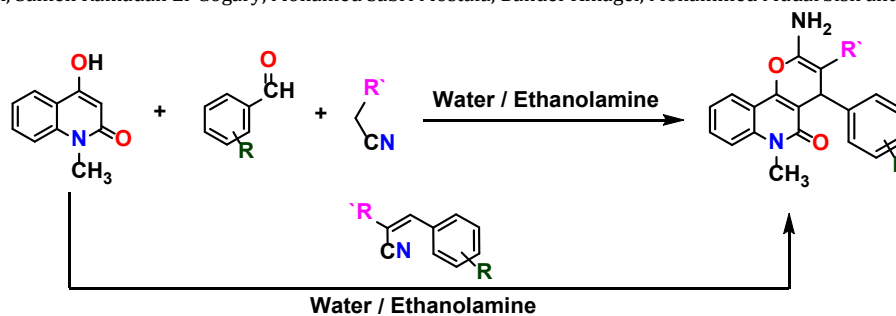
After Melting

**We report observations of the melting point of CdSe nanocrystals and compare our observation to the predictions of a shape-dependent model for melting.**

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**Ecofriendly and simple synthesis of pyrano[3,2-c]quinolone in water via an efficient one-pot three-component reaction**

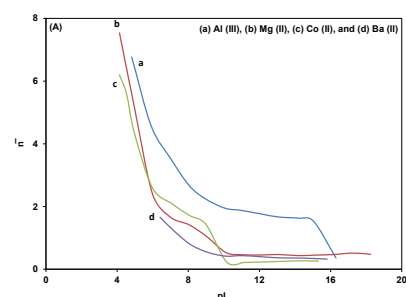
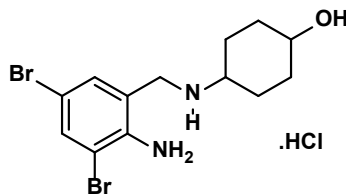
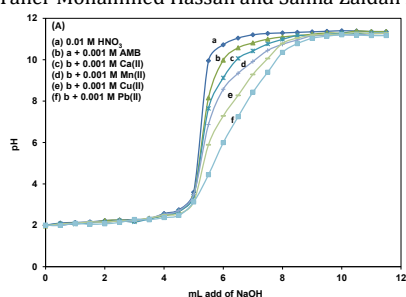
Ibrahim Ali Radini, Sameh Ramadan El-Gogary, Mohamed Sabri Mostafa, Bander Alnagei, Mohammed Mudarbish and Shadad Dash



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**Complexation equilibria of ambroxol hydrochloride in solution by potentiometric and conductometric methods**

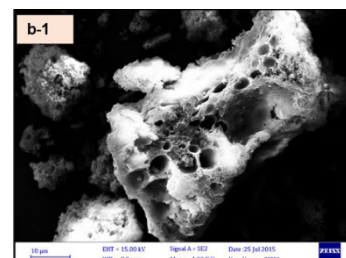
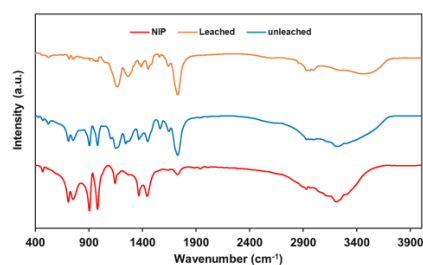
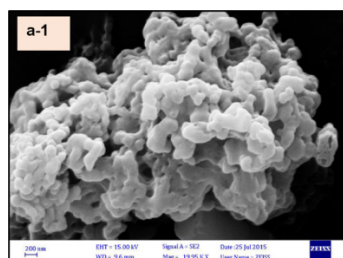
Ahmed Hosny Naggar, Hammed Mohammed Al-Saidi, Othman Abd El-Moaty Farghaly, Taher Mohammed Hassan and Salma Zaidan Mohamed Bortata



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**Determination of optimal adsorption-desorption conditions for selective removal of Ni(II) from petrochemical samples using ion imprinted nanosorbent**

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**A selective fluorescent sensor for Cu(II) ion in ethanol and acetone based on BODIPY**

Fengchao Dong, Zhenyu Zhang, Zhu Ming, Pengfei Li, Yongwu He and Li Bian

