

SCIENTIFIC ARTICLES

ORIGINAL SCIENTIFIC ARTICLE

**Molecular Design of Sugar-Based Polyurethanes**

Min-Yen Lu, Attila Surányi, Béla Viskolcz, Béla Fiser

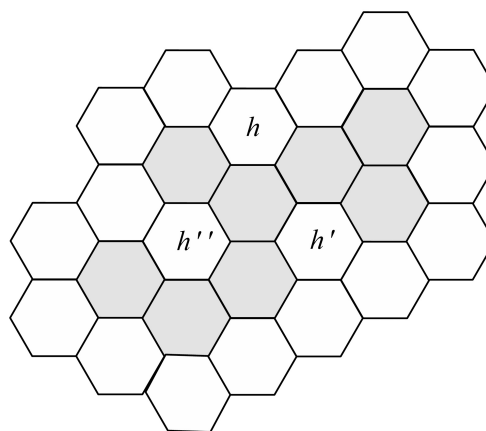


*Croat. Chem. Acta* 2018, 91(3), 299–307  
DOI: 10.5562/cca3328

ORIGINAL SCIENTIFIC ARTICLE

**The Wiener Polarity Index of Benzenoid Systems and Nanotubes**

Niko Tratnik

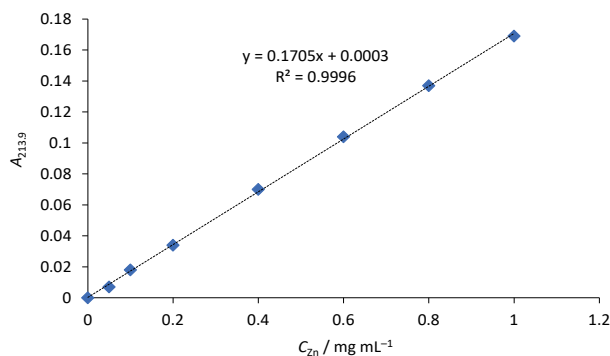


*Croat. Chem. Acta* 2018, 91(3), 309–315  
DOI: 10.5562/cca3291

ORIGINAL SCIENTIFIC ARTICLE

**Impact of Anticoagulants on Assessment of Zinc in Plasma**

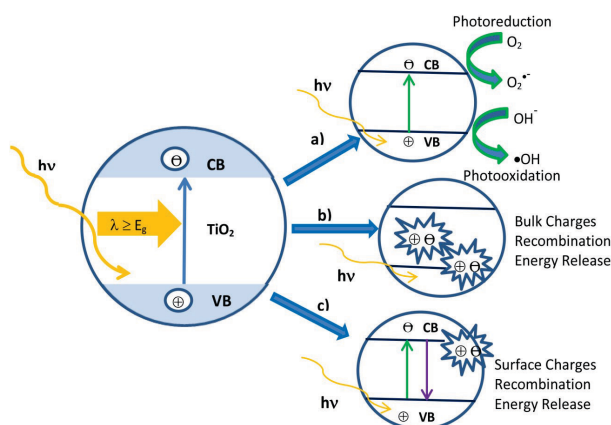
Jasna Jablan, Marija Grdić Rajković, Suzana Inić, Roberta Petlevski, Ana-Marija Domijan



*Croat. Chem. Acta* 2018, 91(3), 317–321  
DOI: 10.5562/cca3321

## Influence of Titanium Dioxide Preparation Method on Photocatalytic Degradation of Organic Dyes

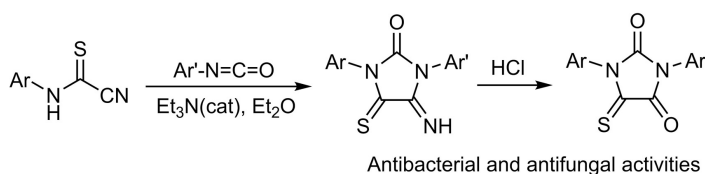
Vanja Gilja, Ljerka Kratofil Krehula, Zvonimir Katančić, Stjepko Krehula, Zlata Hrnjak-Murđić, Jadranka Travas-Sejdic



*Croat. Chem. Acta* **2018**, *91*(3), 323–334  
DOI: 10.5562/cca3292

## Synthesis and Evaluation of Antibacterial and Antifungal Activities of 1,3-Disubstituted-4-thioximidazolidin-2-one Derivatives

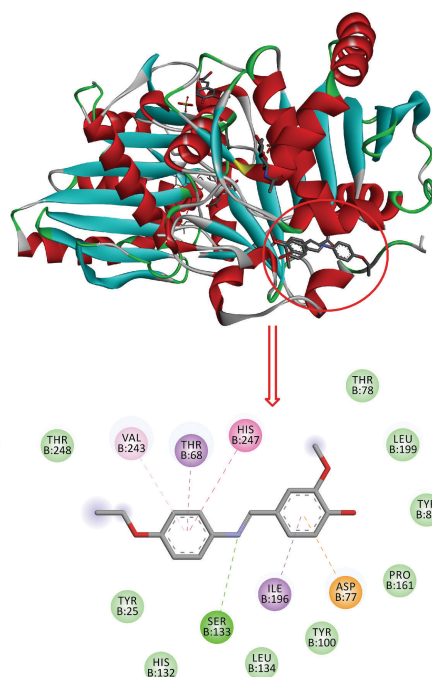
Marwa A. M. Sh. El-Sharief, Samir Y. Abbas, Ziad Moussa, Eman W. El-Gammal, Ahmed M. Sh. El-Sharief



*Croat. Chem. Acta* **2018**, *91*(3), 335–340  
DOI: 10.5562/cca3354

## Synthesis, Quantum Chemical Calculations and Molecular Docking Studies, Biological and Anion Sensor Properties of (E)-4-[(4-ethoxy-phenylimino)methyl]-2-methoxyphenol

Celal Tuğrul Zeyrek, Hüseyin Ünver, Bahadır Boyacıoğlu, Neslihan Demir, Gönül Yapar, Hakan Dal, Mustafa Yıldız

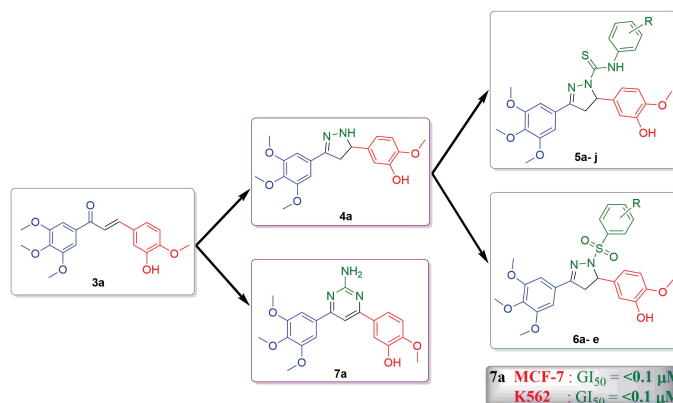


*Croat. Chem. Acta* **2018**, *91*(3), 341–355  
DOI: 10.5562/cca3316

### Synthesis and Pharmacological Evaluation of Pyrazoline and Pyrimidine Analogs of Combretastatin-A4 as Anticancer, Anti-inflammatory and Antioxidant Agents

Sadanand N. Shringare, Hemant V. Chavan, Pravin S. Bhale, Sakharam B. Dongare, Yoginath B. Mule, Nishikant D. Kolekar, Babasaheb P. Bandgar

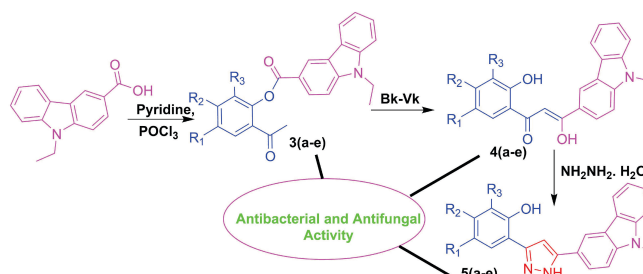
*Croat. Chem. Acta* **2018**, *91*(3), 357–365  
DOI: 10.5562/cca3353



### Synthesis and Antimicrobial Evaluation of Novel Carbazole Based $\beta$ -diketones and its Pyrazole Derivatives

Vijay A. Kadnor, Ganesh R. Mhaske, Sharad N. Shelke

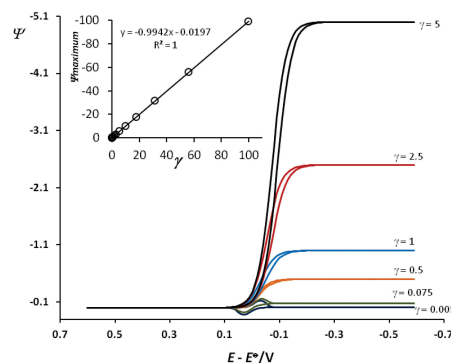
*Croat. Chem. Acta* **2018**, *91*(3), 367–375  
DOI: 10.5562/cca3353



### Time-Independent Methodology to Access Michaelis-Menten Constant by Exploring Electrochemical-Catalytic Mechanism in Protein-Film Cyclic Staircase Voltammetry

Rubin Gulaboski, Pavlinka Kokoskarova, Sofija Petkovska

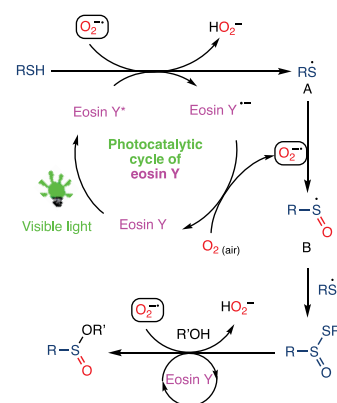
*Croat. Chem. Acta* **2018**, *91*(3), 377–382  
DOI: 10.5562/cca3383



### Facile Aerobic Photo-Oxidative Synthesis of Sulfinic Esters

Pravin K. Singh, Praveen P. Singh, Vishal Srivastava

*Croat. Chem. Acta* **2018**, *91*(3), 383–387  
DOI: 10.5562/cca3401



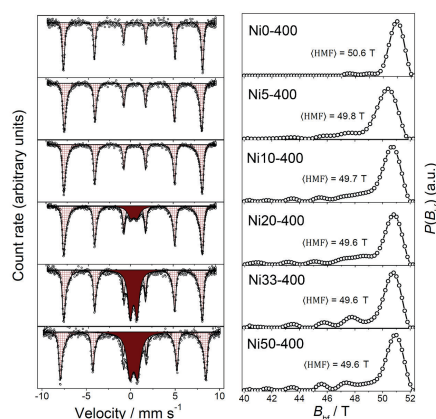
## Synthesis and Properties of Ni-doped Goethite and Ni-doped Hematite Nanorods

Stjepko Krehula, Mira Ristić, Ivana Mitar, Chuchu Wu, Xuning Li, Luhua Jiang, Junhu Wang, Gongquan Sun, Tao Zhang, Marija Perović, Marko Bošković, Bratislav Antić, Svetozar Musić

*Croat. Chem. Acta* **2018**, *91*(3), 389–401

DOI: 10.5562/cca3402

ORIGINAL SCIENTIFIC ARTICLE



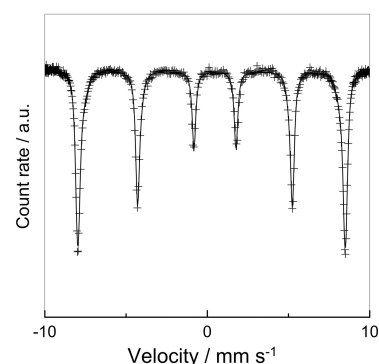
## Monitoring of the Forced Hydrolysis of FeCl<sub>3</sub> Solutions in the Presence of Sodium Dodecyl Sulphate

Mira Ristić, Jasenka Štajdohar, Ivana Mitar, Svetozar Musić

*Croat. Chem. Acta* **2018**, *91*(3), 403–410

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ORIGINAL SCIENTIFIC ARTICLE



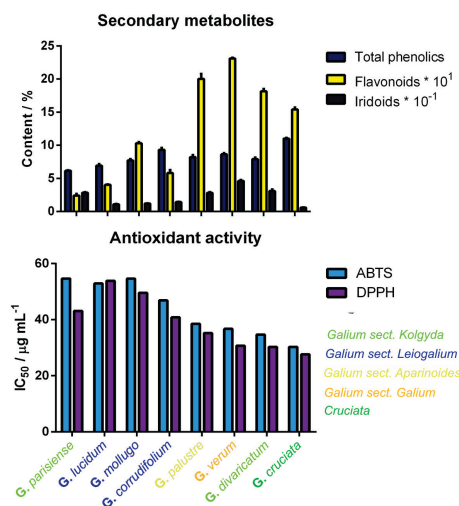
## Content of Bioactive Constituents and Antioxidant Potential of *Galium* L. Species

Maja Friščić, Maja Štibrčić Baglama, Milenko Milović, Kroata Hazler Pilepić, Željkan Maleš

*Croat. Chem. Acta* **2018**, *91*(3), 411–417

DOI: 10.5562/cca3379

NOTE



## OTHER PAPERS

OBITUARY

### Dušan Ražem (1944 – 2018)

Branka Mihaljević

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DOI: 10.5562/cca3432