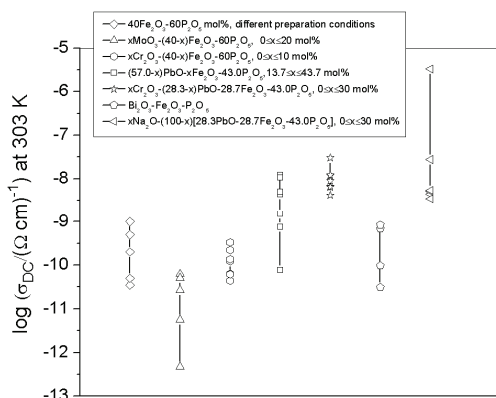


## ORIGINAL SCIENTIFIC ARTICLES

### Charge Carrier Dynamics in Materials with Disordered Structures: A Case Study of Iron Phosphate Glasses

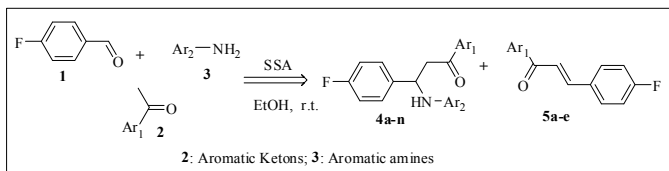
Ana Šantić and Andrea Mogaš-Milanković

*Croat. Chem. Acta* 85 (2012) 245–254.



### Highly Efficient One-pot Synthesis, Antimicrobial and Docking Studies of Newer β-amino Carbonyl Derivatives Catalyzed by Silica Sulfuric Acid

Khairy A. M. El-Bayouki, Wahid M. Basyouni, Ali Seif El-Sayed, Wael M. Tohamy, and Ahmed. A. El-Henawy

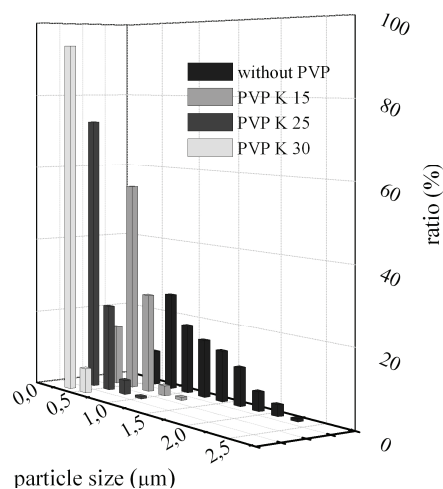


*Croat. Chem. Acta* 85 (2012) 255–268.

### Effect of Polyvinylpyrrolidone on the Formation AgBr Grains in Gelatine Media

Marijana Jukić, Igor Sviben, Zoran Zorić, and Stjepan Milardović

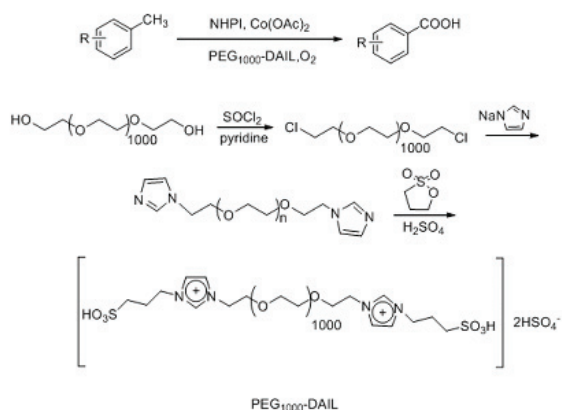
*Croat. Chem. Acta* 85 (2012) 269–276.



*Croat. Chem. Acta* 85 (2012) CCCIII.

**Remarkable Effect of PEG-1000-based Dicationic Ionic Liquid for *N*-hydroxyphthalimide-catalyzed Aerobic Selective Oxidation of Alkylaromatics**

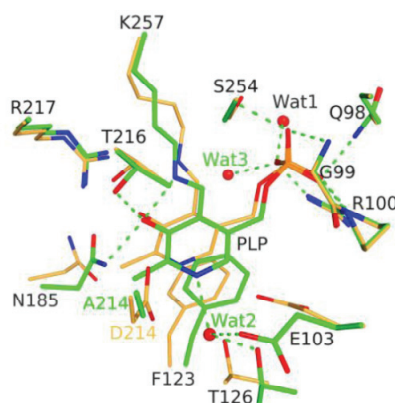
Tingting Lu, Ming Lu, Wang Yu, and Zhongjie Liu



*Croat. Chem. Acta* **85** (2012) 277–282.

**Crystal Structure of *Citrobacter freundii* Asp214Ala Tyrosine Phenol-lyase Reveals that Asp214 is Critical for Maintaining a Strain in the Internal Aldimine**

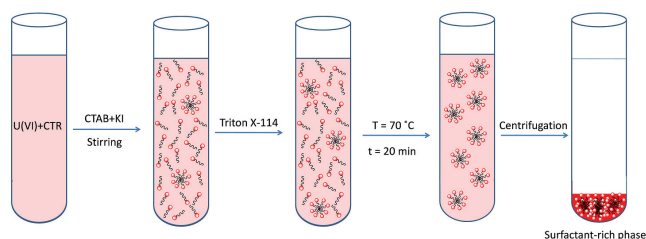
Dalibor Milić, Tatyana V. Demidkina, Lyudmila N. Zakomirdina, Dubravka Matković-Čalogović, and Alfred A. Antson



*Croat. Chem. Acta* **85** (2012) 283–288.

**Cloud Point Extraction and Spectrophotometric Determination of Uranium (VI) in Water Samples after Mixed Micelle-Mediated Extraction Using Chromotrope 2R as Complexing Agent**

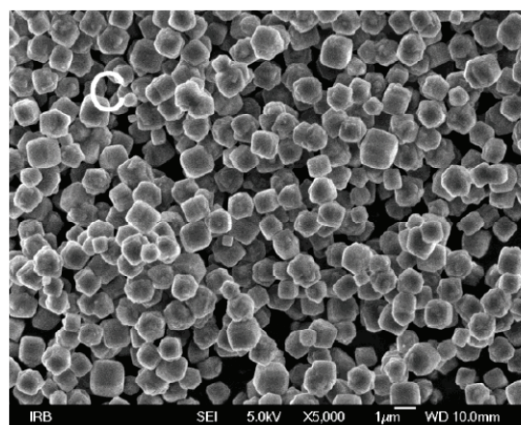
Mohammad Bagher Gholivand, Mehdi Omid, and Mehdi Khodadadian



*Croat. Chem. Acta* **85** (2012) 289–295.

**Zeolite A Synthesis under Dynamic Conditions, after Hydrogel Ageing**

Ana Palčić, Lavoslav Sekovanić, Boris Subotić, and Josip Bronić



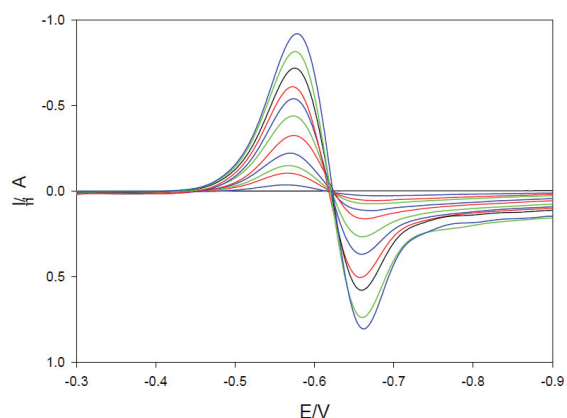
*Croat. Chem. Acta* **85** (2012) 297–301.

*Croat. Chem. Acta* **85** (2012) CCCIII.

**Current Minimum in Differential Pulse Polarography**

Marina Zelić, Ivanka Pižeta, and Dijana Jadreško

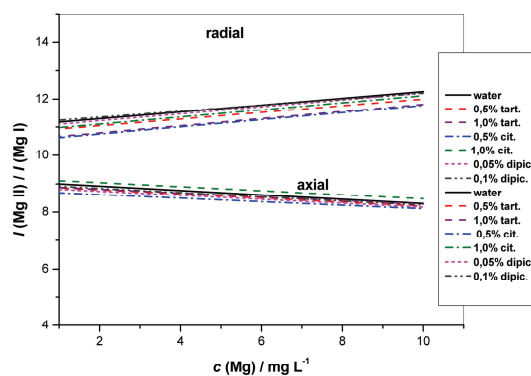
*Croat. Chem. Acta* **85** (2012) 303–309.



**Evaluation of Matrix Effects of Polycarboxylic Acid Introduction in Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)**

Sanda Rončević and Lovorka Pitarević Svedružić

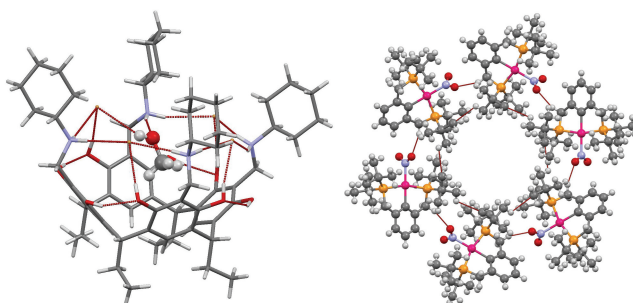
*Croat. Chem. Acta* **85** (2012) 311–317.



**From Self-inclusion and Host-guest Complexes to Channel Structures**

Mario Cetina, and Kari Rissanen

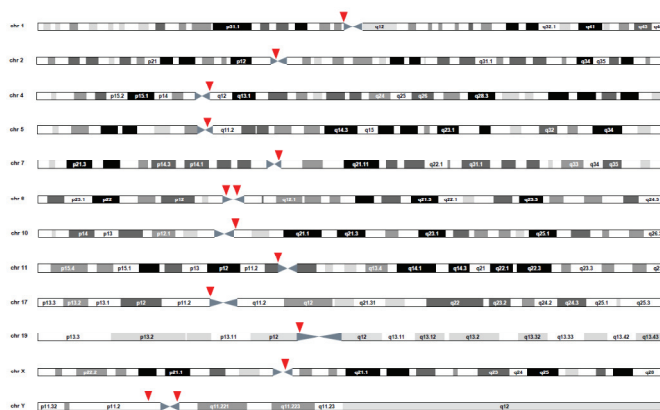
*Croat. Chem. Acta* **85** (2012) 319–325.



**Global Repeat Map Method for Higher Order Repeat Alpha Satellites in Human and Chimpanzee Genomes (Build 37.2 Assembly)**

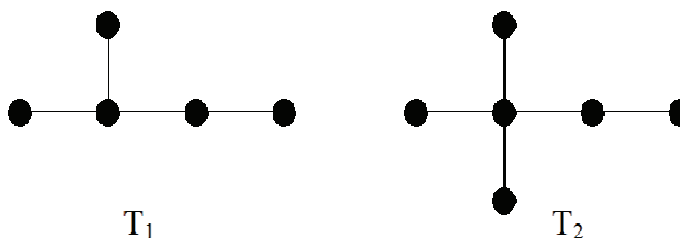
Matko Glunčić, Marija Rosandić, Denis Jelovina, Krešimir Dekanić, Ines Vlahović, and Vladimir Paar

*Croat. Chem. Acta* **85** (2012) 327–351.



**Comparison Between Geometric-arithmetic Indices**

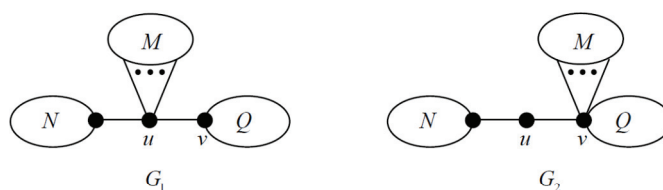
Kinkar Chandra Das and Nenad Trinajstić



*Croat. Chem. Acta* **85** (2012) 353–357.

**Extremal Properties of the Zagreb Eccentricity Indices**

Zhibin Du, Bo Zhou, and Nenad Trinajstić



*Croat. Chem. Acta* **85** (2012) 359–362.

**NOTE**

**Relations Between the Product- and Sum-connectivity Indices**

Bo Zhou and Nenad Trinajstić

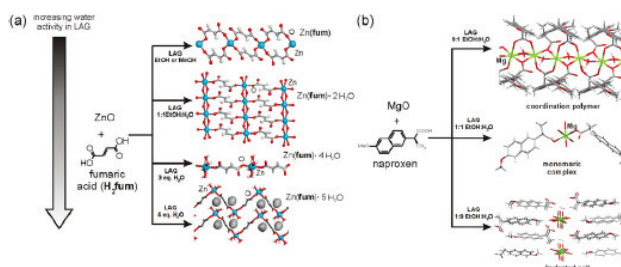
$$R(G) = \sum_{uv \in E(G)} \frac{1}{\sqrt{d_u d_v}}, \quad \chi(G) = \sum_{uv \in E(G)} \frac{1}{\sqrt{d_u + d_v}}.$$

*Croat. Chem. Acta* **85** (2012) 363–365.

**REVIEW**

**Clean and Efficient Synthesis Using Mechanochemistry: Coordination Polymers, Metal-Organic Frameworks and Metallo drugs**

Tomislav Friščić, Ivan Halasz, Vjekoslav Štrukil, Mirjana Eckert-Maksić, and Robert E. Dinnebier



*Croat. Chem. Acta* **85** (2012) 367–378.

---

**APPENDICES**

---

**Obituary: Boris Kamenar (1929–2012)**

CCCIX–CCCX

---

**Conclusion**

CCCXI

---