
EDITORIAL

Marina Cindrić and Boris Kamenar

Croat. Chem. Acta **82** (2009) CCXV

DRAGO GRDENIĆ – *Curriculum Vitae*

Boris Kamenar

Croat. Chem. Acta **82** (2009) CCXVII–CCIX

DRAGO GRDENIĆ – *List of Publications*

Marina Cindrić

Croat. Chem. Acta **82** (2009) CCXXI–CCXXIV

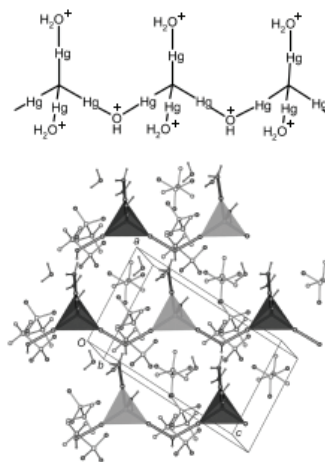
CCA-3325

Crystal Structure of the First Polymeric Tetramercurated Methane Derivative of Hofmann's Base

Dalibor Milić, Željka Soldin, Gerald Giester, Zora Popović, and Dubravka Matković-Čalogović

Original Scientific Paper

Croat. Chem. Acta **82** (2009) 337–344



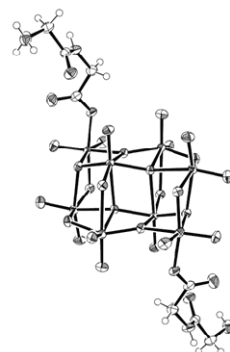
CCA-3326

Polyoxomolybdates and Polyoxomolybdovanadates – from Structure to Functions: Recent Results

Marina Cindrić, Zorica Veksli, and Boris Kamenar

Authors' Review

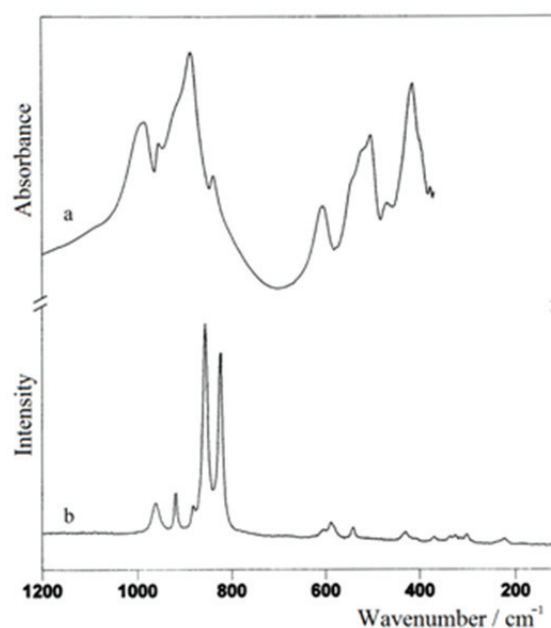
Croat. Chem. Acta **82** (2009) 345–362



CCA-3327

Silicate Minerals from Macedonia. Complementary Use of Vibrational Spectroscopy and X-ray Powder Diffraction for Identification and Detection Purposes

Gligor Jovanovski, Petre Makreski, Branko Kaitner, and Blažo Boev



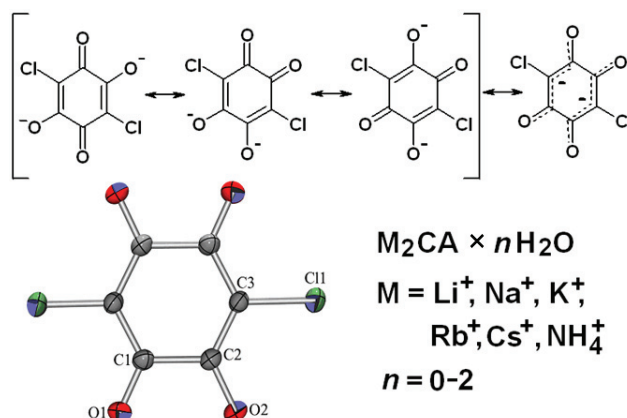
Authors' Review

Croat. Chem. Acta **82** (2009) 363–386

CCA-3328

Unique Electronic and Structural Properties of 1,4-Benzoquinones: Crystallochemistry of Alkali Chloranilate Hydrates

Krešimir Molčanov, Biserka Kojić-Prodić, and Anton Meden



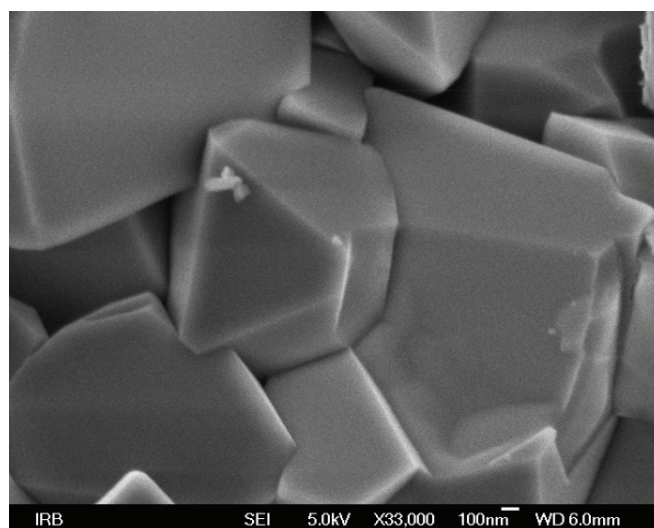
Original Scientific Paper

Croat. Chem. Acta **82** (2009) 387–396

CCA-3329

Investigation of Crystalline Phases in the α -Fe₂O₃/ α -Al₂O₃ System

Mira Ristić, Stanko Popović, and Svetozar Musić



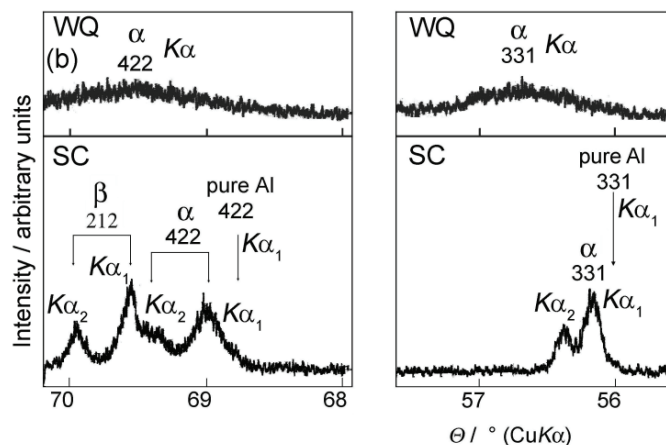
Original Scientific Paper

Croat. Chem. Acta **82** (2009) 397–404

CCA-3330

Microstructure of Al-Zn and Zn-Al Alloys

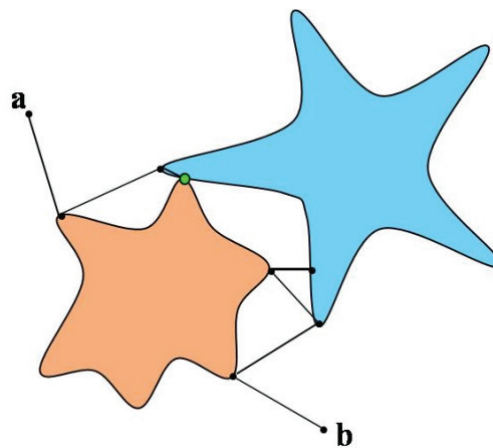
Željko Skoko, Stanko Popović, and Goran Štefanić

*Original Scientific Paper**Croat. Chem. Acta* **82** (2009) 405–420

CCA-3331

Iterative Methods for the Solution of the Phase Problem in Protein Crystallography

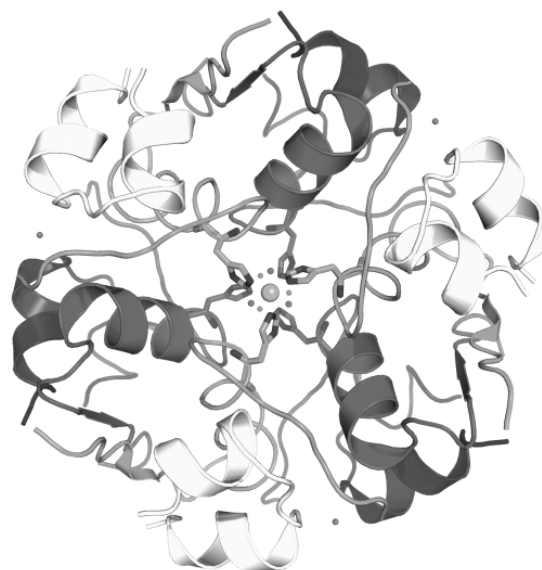
Anton Thumiger and Giuseppe Zanotti

*Review**Croat. Chem. Acta* **82** (2009) 421–432

CCA-3332

Structure of the T₆ Human Nickel Insulin Derivative at 1.35 Å Resolution

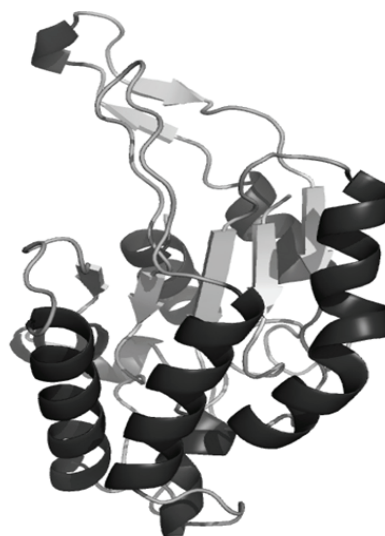
Biserka Prugovečki, Eleanor J. Dodson, Guy G. Dodson, and Dubravka Matković-Čalogović

*Original Scientific Paper**Croat. Chem. Acta* **82** (2009) 433–438

CCA-3333

Arab-1, a GDSL Lipase from the Model Plant, *Arabidopsis thaliana* (L.) Heynh.

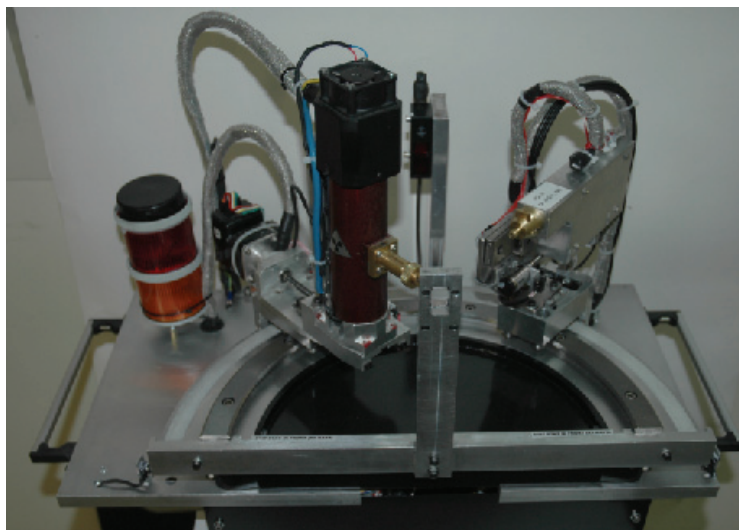
Goran Mikleušević, Branka Salopek-Sondi, and Marija Luić

*Original Scientific Paper**Croat. Chem. Acta* **82** (2009) 439–447

CCA-3334

A New Portable XRD/XRF Instrument for Non-destructive Analysis

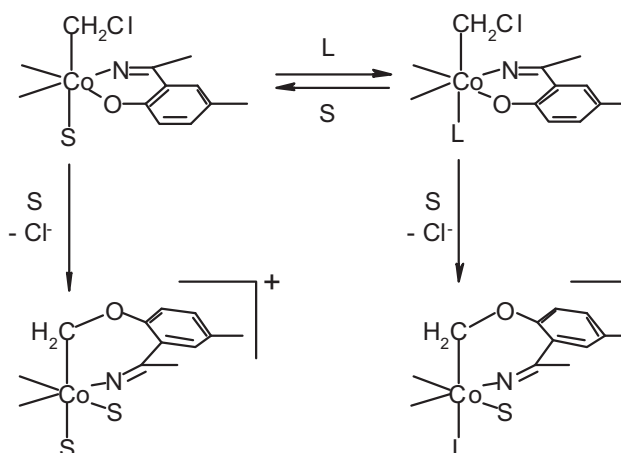
Augusto Pifferi, Gaetano Campi, Carmelo Giacovazzo, and Ettore Gobbi

*Original Scientific Paper**Croat. Chem. Acta* **82** (2009) 449–454

CCA-3335

Intramolecular Cyclization Reactions in Haloalkyl-Cobalt Complexes with Macrocyclic Equatorial Ligands

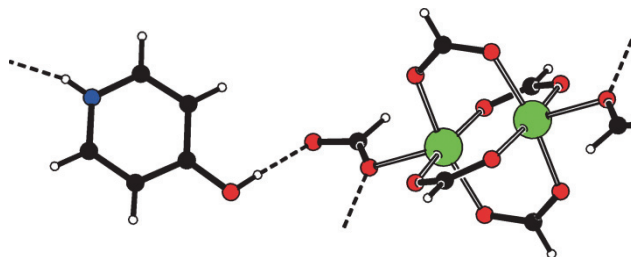
Renata Dreos, Lucio Randaccio, Patrizia Siega, and Višnja Vrdoljak

*Authors' Review**Croat. Chem. Acta* **82** (2009) 455–461

CCA-3336

Strong Antiferromagnetism in Isolated Anionic Dicopper(II) Methanoato *Paddle-wheel* Complex

Bojan Kozlevčar, Igor Kovšca, Zvonko Jagličić, Andrej Pevec, Nives Kitanovski, Peter Strauch, and Primož Šegedin



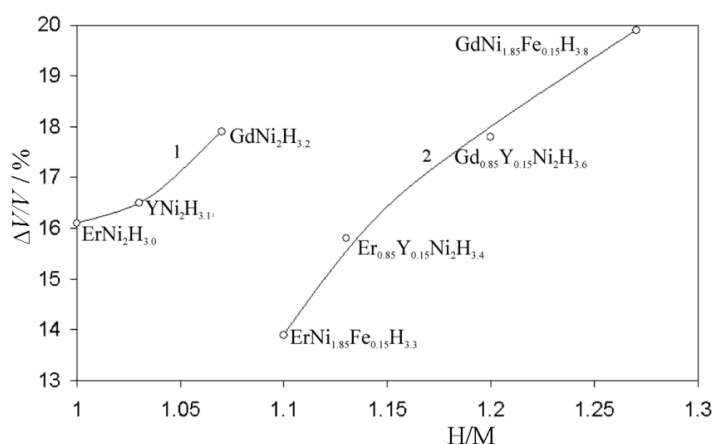
Original Scientific Paper

Croat. Chem. Acta **82** (2009) 463–467

CCA-3337

Hydrogen Sorption Properties of Some $RM_{2-x}M'_x$ and $RM_{2-x}Al_x$ (Laves Phase Ternary Compounds) (R = Y, Gd, Tb, Er, Ho; M = Mn, Fe, Co, Ni)

Bohdan Kotur, Oksana Myakush, and Ihor Zavaliiy



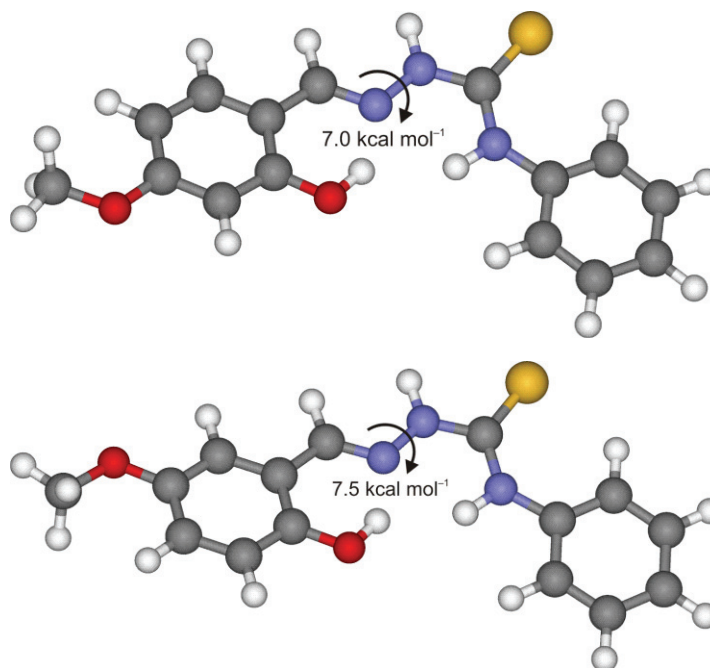
Review

Croat. Chem. Acta **82** (2009) 469–476

CCA-3338

Structure and Hydrogen Bonding Interactions in Methoxysalicylaldehyde Thiosemicarbazone Derivatives in Solution by NMR and DFT Methods

Predrag Novak, Katarina Pičuljan, Tomica Hrenar, and Vilko Smrečki



Original Scientific Paper

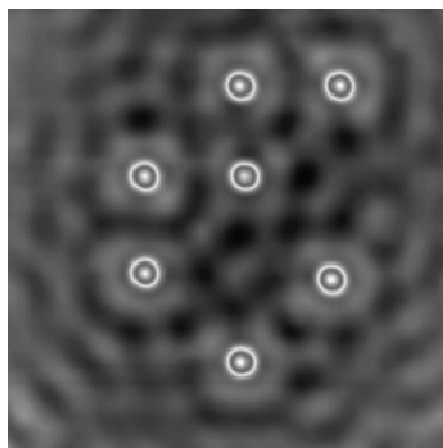
Croat. Chem. Acta **82** (2009) 477–483

CCA-3339

Low-temperature Scanning Tunneling Microscopy and Spectroscopy of Noble-metal Surfaces

Erik Zupanič, Rok Žitko, Herman J. P. van Midden, Igor Mušević, and Albert Prodan

Original Scientific Paper
Croat. Chem. Acta **82** (2009) 485–491

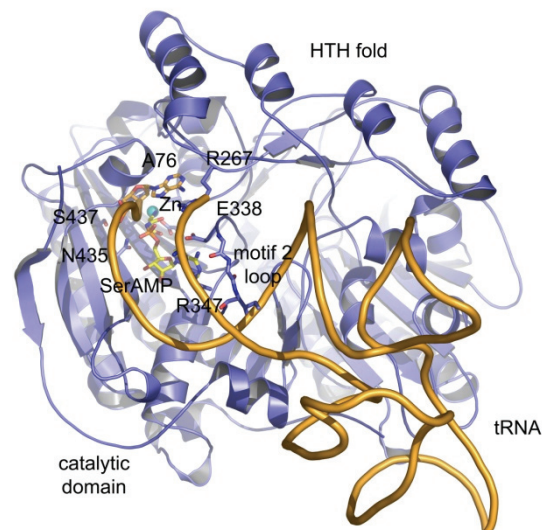


CCA-3340

Seryl-tRNA Synthetases: Enzymes with Multiple Personalities

Silvija Bilokapić, Nenad Ban, and Ivana Weygand-Đurašević

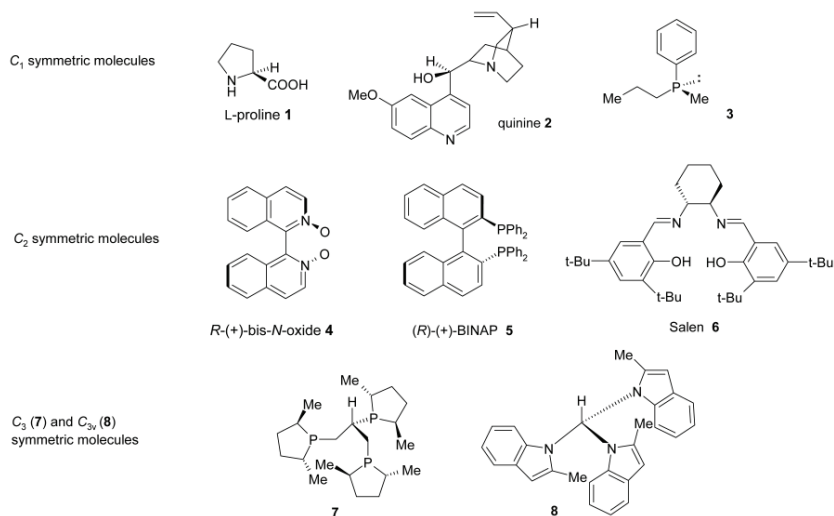
Authors' Review
Croat. Chem. Acta **82** (2009) 493–501



CCA-3341

Separation of Enantiomers by Chromatography as a Vehicle for Chiral Catalysis. Abridged Review

Vitomir Šunjić

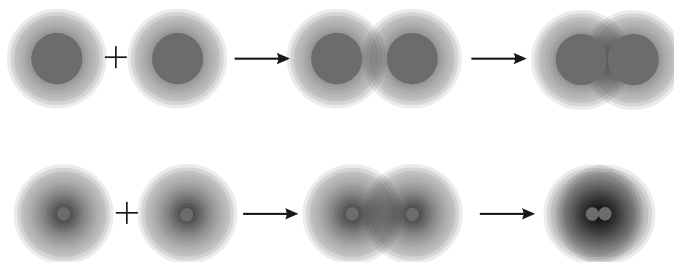


Author's Review
Croat. Chem. Acta **82** (2009) 503–530

CCA-3342

Effect of Charge Distribution on the Stability of Nano-dispersions

Nikola Kallay, Tajana Preočanin, and Davor Kovačević

*Original Scientific Paper**Croat. Chem. Acta* **82** (2009) 531–535

CCA-3343

On Reciprocal and Reverse Balaban Indices

Bo Zhou and Nenad Trinajstić

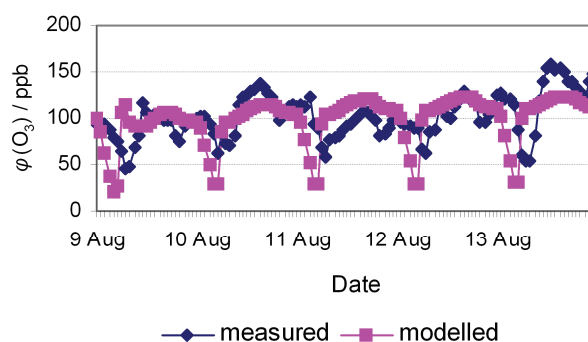
$$J(\mathbf{M}, G) = \frac{m}{\mu + 1} \sum_{v_i, v_j \in E(G)} (M_i \cdot M_j)^{-1/2}$$

*Original Scientific Paper**Croat. Chem. Acta* **82** (2009) 537–541

CCA-3344

Estimation of Ozone and Peroxide Levels in the Air of Croatia

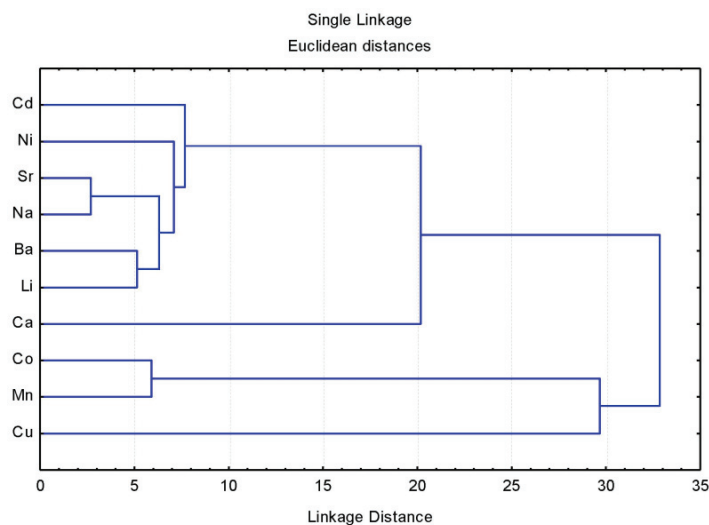
Gordana Pehcec, Leo Klasinc, Vladimir Vadić, and Glenda Šorgo

*Original Scientific Paper**Croat. Chem. Acta* **82** (2009) 543–551

CCA-3345

Association of Nitrate Ion with Metal Cations in Aqueous Solution: a UV-Vis Spectrometric and Factor-Analytical Study

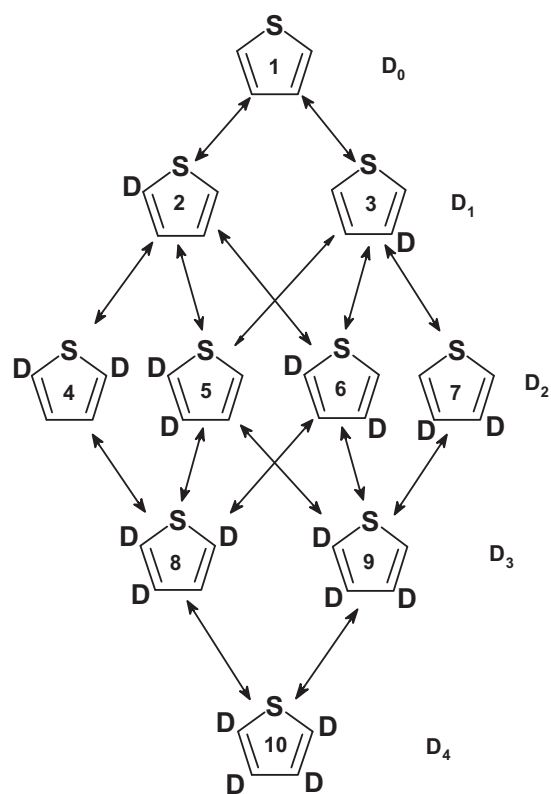
Vlatka Gvozdić, Vladislav Tomišić, Vjekoslav Butorac, and Vladimir Simeon

*Original Scientific Paper**Croat. Chem. Acta* **82** (2009) 553–559

CCA-3346

On the Vibrational Interlacing Rule in Deuterated Thiophene: I. Out-of-plane Vibrations

Antonija Tomić and Tomislav P. Živković



Original Scientific Paper
Croat. Chem. Acta **82** (2009) 561–566

APPENDIX

ANNOUNCEMENTS AND ADVERTISEMENTS

CCXXV–CCXXVI