

**FOREWORD**

Ante Graovac, Biserka Pokrić, and Dražen Vikić-Topić

*Croat. Chem. Acta* 76 (2003) XV**AUTHORS' REVIEW**

CCA-2861

**The Zagreb Indices 30 Years After**Sonja Nikolić, Goran Kovačević,  
Ante Miličević, and Nenad Trinajstić

$$M_1 = \sum_{\text{vertices}} d(i)d(i)$$

$$M_2 = \sum_{\text{edges}} d(i)d(j)$$

$$TM_1 = \sum_{\mathbf{s}} \sum_{\text{vertices}} d_i^2(\mathbf{s})$$

$$TM_2 = \sum_{\mathbf{s}} \sum_{\text{edges}} d_i d_j(\mathbf{s})$$

$${}^m M_1 = \sum_{\text{vertices}} [1/d(i)][1/d(i)] = \sum_{\text{vertices}} [d(i)d(i)]^{-1}$$

$${}^m M_2 = \sum_{\text{edges}} 1/[d(i)d(j)] = \sum_{\text{edges}} [d(i)d(j)]^{-1}$$

*Croat. Chem. Acta* 76 (2003) 113–124**FEATURE ARTICLE**

CCA-2862

**On Appel Index of MATH/CHEM/COMP Conference**

Marija Došlić, Nađa Došlić, and Tomislav Došlić

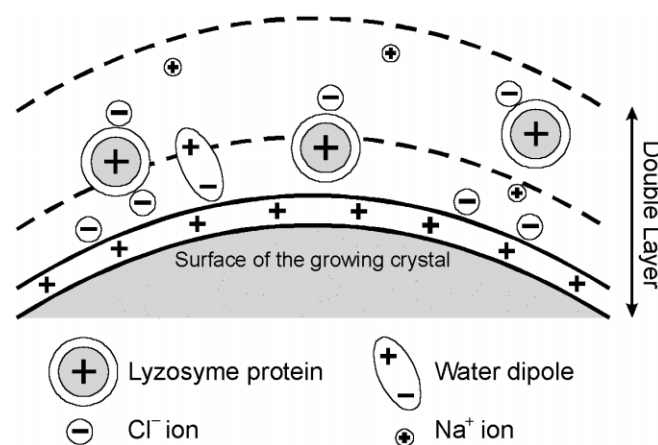
$$L(p) = \prod_{k \geq 2} \left(1 - p + \frac{p}{k!}\right)^{a_k} \left(p - \frac{p}{k!}\right)^{n_k - a_k} \binom{n_k}{a_k}$$

*Croat. Chem. Acta* 76 (2003) 125–127**ORIGINAL SCIENTIFIC PAPERS**

CCA-2863

**A Novel Model of Protein Crystal Growth: Kinetic Limits, Length Scales and the Role of the Double Layer**

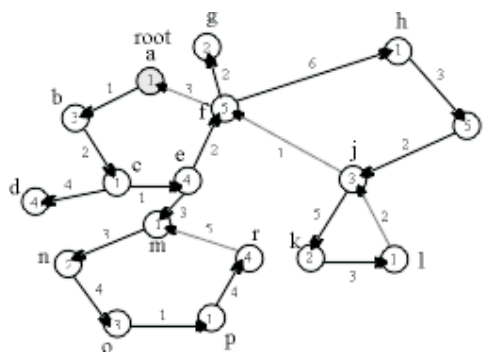
Adam Gadomski and Jacek Siódmiak

*Croat. Chem. Acta* 76 (2003) 129–136

CCA-2864

### Computing the Weighted Wiener and Szeged Number on Weighted Cactus Graphs in Linear Time

Blaž Zmazek and Janez Žerovnik

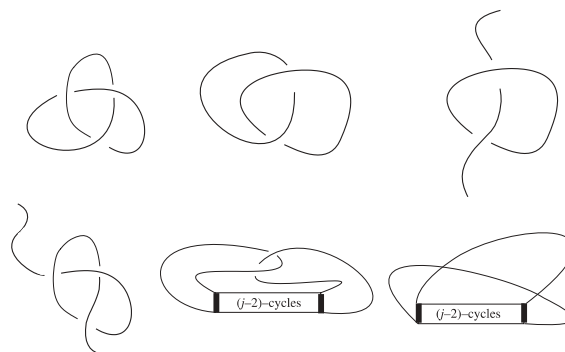


Croat. Chem. Acta 76 (2003) 137–143

CCA-2865

### Classification of Topological Isomers: Knots, Links, Rotaxanes, etc.

Jan Cz. Dobrowolski

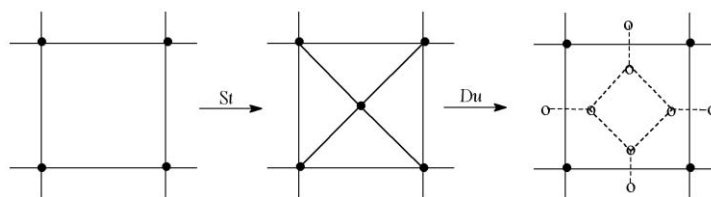


Croat. Chem. Acta 76 (2003) 145–152

CCA-2866

### Leapfrog and Related Operations on Toroidal Fullerenes

Mircea V. Diudea, Peter E. John, Ante Graovac, Miljenko Primorac, and Tomaž Pisanski



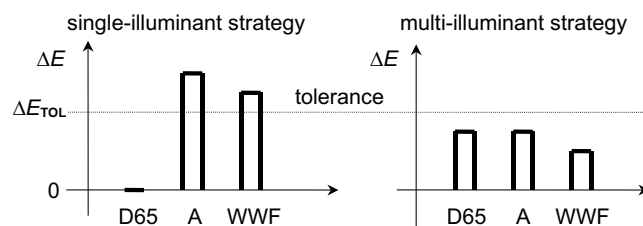
Croat. Chem. Acta 76 (2003) 153–159

CCA-2867

### Least Metameric Recipe Formulation

Boris Sluban and Olivera Šauperi

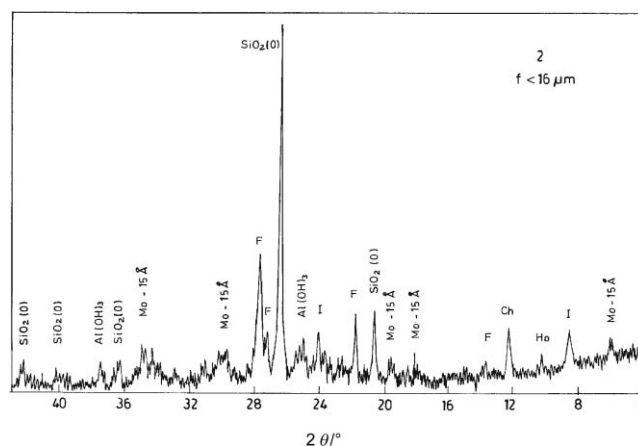
Croat. Chem. Acta 76 (2003) 161–166



CCA-2868

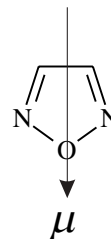
### Estuarine Sediments from the Boreal Region – an Indication of Weathering

Stanislav Frančičković-Bilinski, Halka Bilinski, Darko Tibljaš, and Darko Hanžel



Croat. Chem. Acta 76 (2003) 167–176

CCA-2869

**A Theoretical and Experimental Study of Dipole Moments of 3-Aminofurazans**Rostislav E. Trifonov, Aleksandr V. Gaenko,  
Sergei N. Vergizov, Michail B. Shcherbinin,  
and Vladimir A. Ostrovskii*Croat. Chem. Acta* **76** (2003) 177–182**NOTE**

CCA-2870

**Modified Zagreb  $M_2$  Index – Comparison with the Randić Connectivity Index for Benzenoid Systems**

Damir Vukičević and Nenad Trinajstić

$${}^*M_2(G) = \sum_{\text{edges}} [d(i)d(j)]^{-1}$$

$$\chi(G) = \sum_{\text{edges}} [d(i)d(j)]^{-1/2}$$

*Croat. Chem. Acta* **76** (2003) 183–187**APPENDIX**Minutes of the Annual Assembly  
of the Croatian Chemical Society (in Croatian)

A13–A28

ANNOUNCEMENTS AND ADVERTISEMENTS

A29–A32