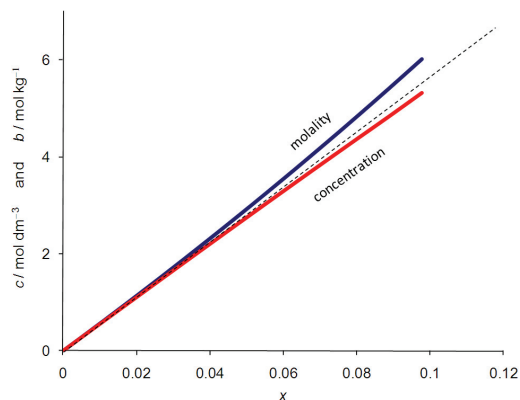


REVIEW

CCA-3442

Thermodynamics of the Reactions at Solid/Liquid Interfaces

Nikola Kallay, Tajana Preočanin, Davor Kovačević,
Johannes Lützenkirchen, and Mario Villalobos



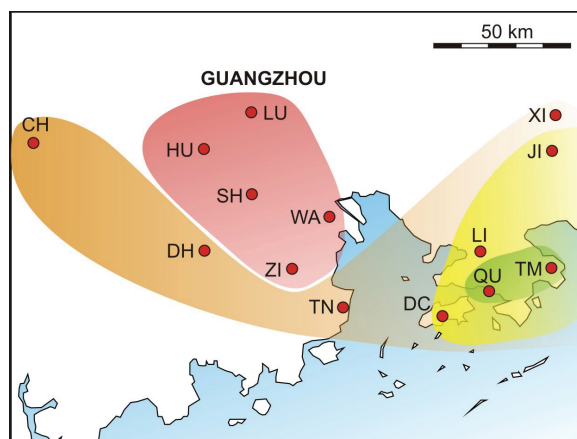
Croat. Chem. Acta **84** (2011) 1–10.

ORIGINAL SCIENTIFIC ARTICLES

CCA-3443

Photochemical Pollution Indicators in the Subtropics

Leo Klasinc, Tomislav Cvitaš, Sean P. McGlynn, Min
Hu, Xiaoyan Tang, and Yuanhang Zhang



Croat. Chem. Acta **84** (2011) 11–16.

CCA-3444

On a Relation Between the Zagreb Indices

Sanja Stevanović

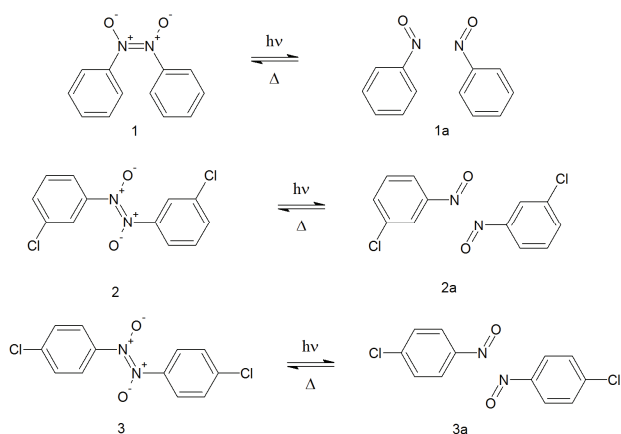
$$M_1 = \sum_{u \in V} d_u^2 \quad \text{and} \quad M_2 = \sum_{(u,v) \in E} d_u d_v.$$

Croat. Chem. Acta **84** (2011) 17–19.

CCA-3445

Photothermal Reactions of Nitrosobenzene and Halonitrosobenzenes in Solid-state

Anamarija Knežević, Tina Medančić, Srđan Milovac, Ivana Biljan, Ivan Halasz, and Hrvoj Vančik

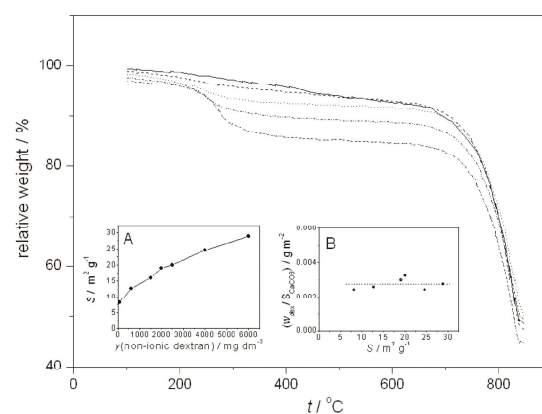


Croat. Chem. Acta **84** (2011) 21–24.

CCA-3446

Synthesis of Calcium Carbonate by Semicontinuous Carbonation Method in the Presence of Dextrans

Jasminka Kontrec, Marko Ukrainczyk, Vesna Babić-Ivančić, and Damir Kralj

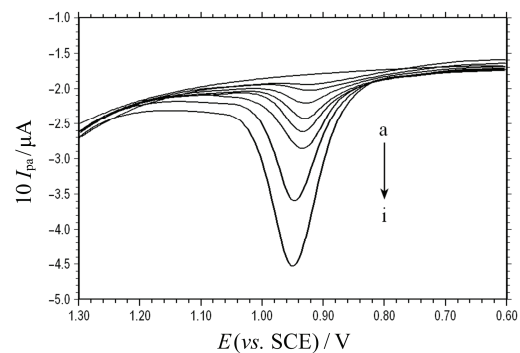


Croat. Chem. Acta **84** (2011) 25–32.

CCA-3447

Electrochemical Oxidation of 2'-deoxyguanosine-5'-triphosphate on Ionic Liquid Modified Carbon Paste Microelectrode and its Sensitive Detection

Hongwei Gao, Yuanyuan Duan, Li Xu, and Wei Sun

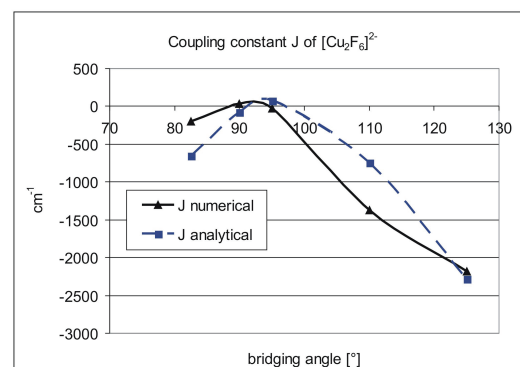


Croat. Chem. Acta **84** (2011) 33–38.

CCA-3448

An Analytical Approach for Calculating Transfer Integrals in Superexchange Coupled Dimers

Stefan Lebernegg, Georg Amthauer, and Michael Grodzicki

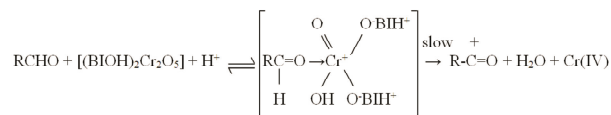


Croat. Chem. Acta **84** (2011) 39–52.

CCA-3449

Kinetics and Mechanism of the Oxidation of Aliphatic Aldehydes by Benzimidazolium Dichromate

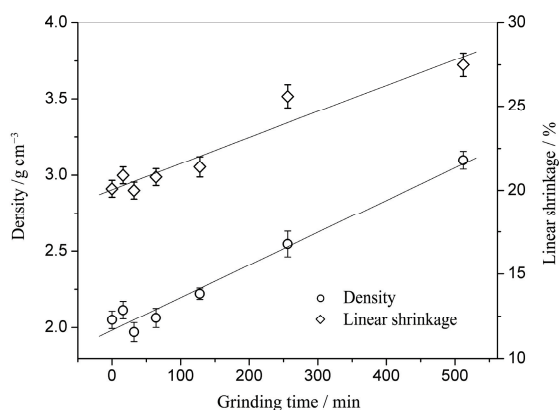
Pravesh Kumar, Dinesh Panday, and Seema Kothari

*Croat. Chem. Acta* **84** (2011) 53–61.

CCA-3450

Influence of Agglomeration and Contamination in the Course of Amorphous Powder Grinding on Structure and Microstructure of Sintered Mullite

Stanislav Kurajica, Emilija Tkalčec, Gordana Matijašić, Lidija Ćurković, Zdravko Schauerperl, Juraj Šipušić, and Vilko Mandić

*Croat. Chem. Acta* **84** (2011) 63–71.

CCA-3451

Effects of *n*-3 Supplementation on Plasma and Liver Phospholipid Fatty Acids Profile in Aged Wistar Rats

Tamara Popović, Sunčica Borozan, Aleksandra Arsić, Jasmina Debeljak-Martačić, Vesna Vučić, Silvio de Luka, Ivan Milovanović, Aleksandar Trbović, and Maria Glibetić

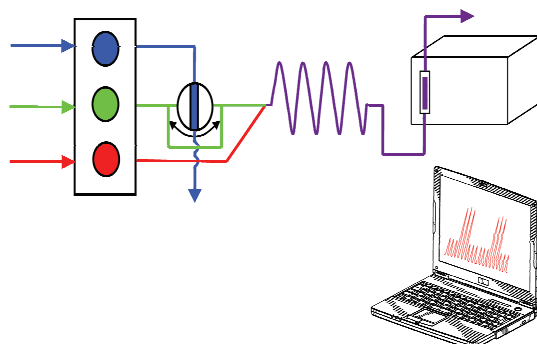
	control group	after treatment
22:6/22:5 (Δ 4)	5.07±1.26	3.29±0.25 ^{###}
20:4/20:3 (Δ 5)	14.37±4.05	6.72±1.59 ^{###}
20:3/18:2 (Δ 6)	0.12±0.03	0.099±0.02
18:1/18:0 (Δ 9)	0.20±0.03	0.18±0.04
18:0/16:0 elongase	1.46±0.18	1.04±0.17 ^{###}

^{###} $p < 0.01$; ^{####} $p < 0.001$ – student test.*Croat. Chem. Acta* **84** (2011) 73–79.

CCA-3452

Flow-injection Spectrophotometric Determination of *N*-acetyl-L-cysteine Based on Coupled Redox-complexation Reaction

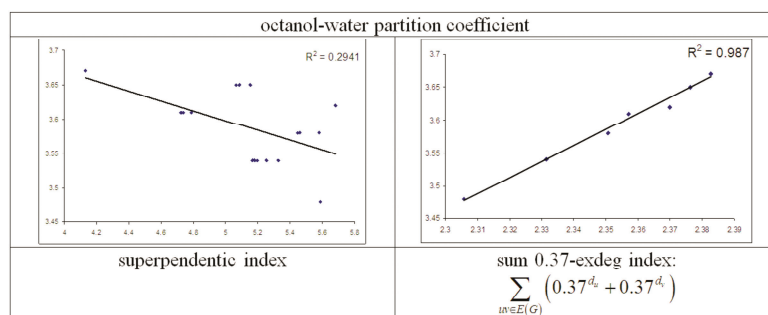
Lea Kukoč - Modun, Ivana Plazibat, and Njegomir Radić

*Croat. Chem. Acta* **84** (2011) 81–86.

CCA-3453

Bond Additive Modeling 4. QSPR and QSAR Studies of the Variable Adriatic Indices

Damir Vukičević

Croat. Chem. Acta **84** (2011) 87–91.

CCA-3454

Bond Additive Modeling 5. Mathematical Properties of the Variable Sum Exdeg Index

Damir Vukičević

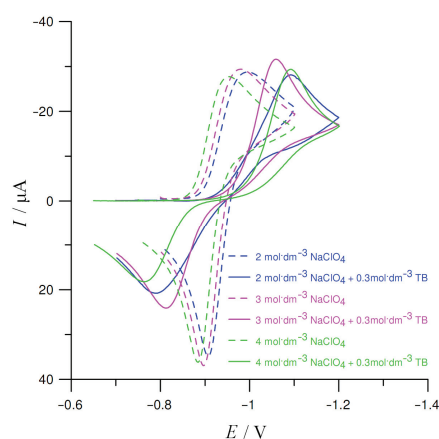
$$SEI_n(G) \geq \begin{cases} n \cdot 2a^2, & \text{if } 0 < a \leq \frac{1}{3}; \\ n \cdot \frac{3a^3 + a}{2}, & \text{if } \frac{1}{3} \leq a \leq \frac{3}{4} \cdot \cos\left(\frac{\pi + \text{Arc cos}\left(\frac{5}{27}\right)}{3}\right) + \frac{3}{8}; \\ n \cdot \frac{4a^4 + 2a}{3}, & \text{if } \frac{3}{4} \cdot \cos\left(\frac{\pi + \text{Arc cos}\left(\frac{5}{27}\right)}{3}\right) + \frac{3}{8} < a < 1; \end{cases}$$

Croat. Chem. Acta **84** (2011) 93–101.

CCA-3455

The Influence of *tert*-Butanol on a Two-step Zn^{2+} Ion Electroreduction in Concentrated $NaClO_4$ Solutions

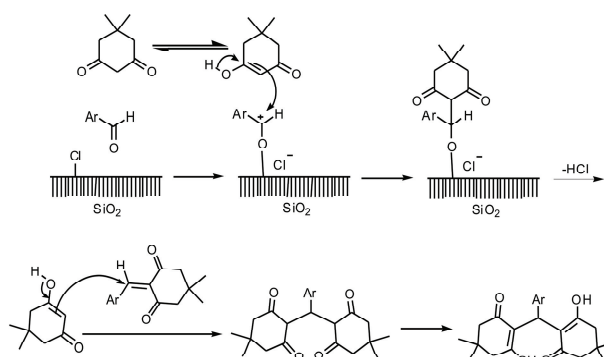
Jolanta Nieszporek

Croat. Chem. Acta **84** (2011) 103–110.

CCA-3456

Silica Chloride Nano Particle Catalyzed Synthesis of 2,2'-(arylmethylene)bis(5,5-dimethylcyclohexane-1,3-dione) Derivatives

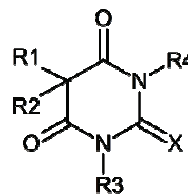
Ramin Karimian, Farideh Piri, Babak Karimi, and Abolghasem Moghimi

Croat. Chem. Acta **84** (2011) 111–115.

CCA-3457

Simultaneous Effect of Organic Modifier and Physicochemical Parameters of Barbiturates on their Retention on a Narrow-Bore PGC Column. Part 2

Tibor Cserhádi and Maria Szógyi



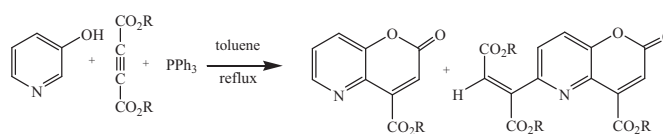
Croat. Chem. Acta **84** (2011) 117–121.

NOTES

CCA-3458

Synthesis of Aza Coumarines by Nucleophilic Addition of Acetylenic Esters Catalysed by Ph_3P

Bitá Mohtat, Issa Yavari, Roza E. Ameri, and Elnaz Salahi



Croat. Chem. Acta **84** (2011) 123–126.

LETTERS TO THE EDITOR

Errata

CIX