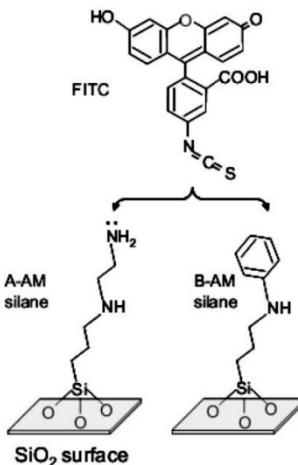


SCIENTIFIC ARTICLES

SHORT REVIEW

Determination of Au Film Thiolation and Silane Bonding Onto SiO₂ Films Within the Frame of Biosensor Surface Functionalization – an Analysis of Best Practices and Techniques

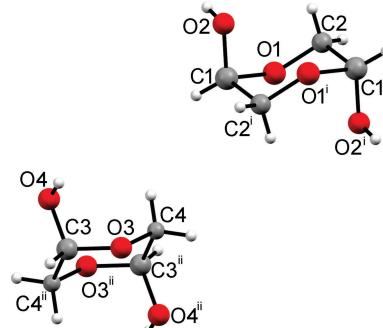
Leda G. Bousiakou, Stefanos Karapetis


Croat. Chem. Acta 2020, 93(1), 1–14
 DOI: 10.5562/cca3640

ORIGINAL SCIENTIFIC ARTICLE

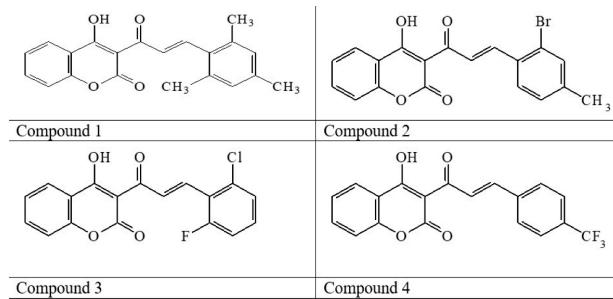
Structural Characterization of β-Glycolaldehyde Dimer

Vlasta Mohaček-Grošev, Biserka Prugovečki, Stjepan Prugovečki


Croat. Chem. Acta 2020, 93(1), 15–22
 DOI: 10.5562/cca3606

ORIGINAL SCIENTIFIC ARTICLE

Synthesis, Microbiological Activity and *In Silico* Investigation for Some Synthesized Coumarin Derivatives

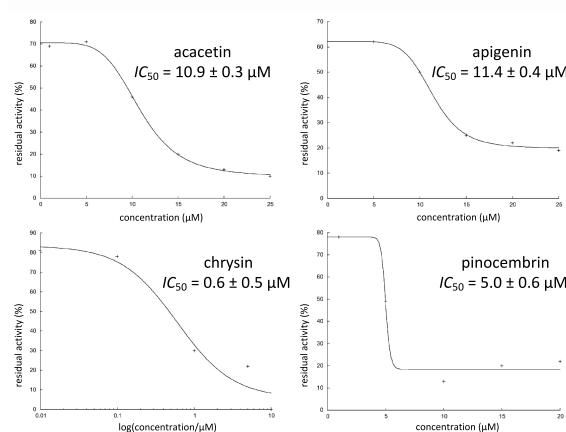
 Selma Špirtović-Halilović, Elma Veljović,
 Mirsada Salihović, Amar Osmanović, Aida Šapčanin,
 Dženita Softić, Sunčica Roca, Snežana Trifunović,
 Nihad Škrijelj, Selma Škrbo, Aida Selmanagić,
 Davorka Završnik

Croat. Chem. Acta 2020, 93(1), 23–31
 DOI: 10.5562/cca3637

ORIGINAL SCIENTIFIC ARTICLE

Inhibitory Effect of Acacetin, Apigenin, Chrysin and Pinocembrin on Human Cytochrome P450 3A4

Martin Kondža, Hrvoje Rimac, Željan Maleš, Petra Turčić, Ivan Čavar, Mirza Bojić

Cytochrome P450 3A4 inhibition by flavonoids

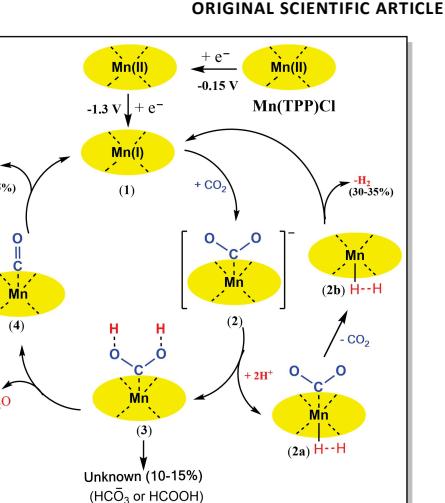


Croat. Chem. Acta 2020, 93(1), 33–39

DOI: 10.5562/cca3652

Mn(III) Catalyzed Electrochemical Reduction of CO₂ on Carbon Electrodes

Khalaf M. Alenezi



Croat. Chem. Acta 2020, 93(1), 41–47

DOI: 10.5562/cca3614

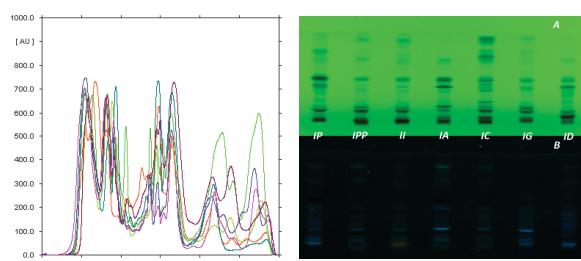
ORIGINAL SCIENTIFIC ARTICLE

Chemical Fingerprinting, Total Phenolics and Antioxidant Activity of Some *Iris* Taxa

Ivan Duka, Željan Maleš, Mirza Bojić, Dario Hruševan, Božena Mitić

Croat. Chem. Acta 2020, 93(1), 49–56

DOI: 10.5562/cca3673



ORIGINAL SCIENTIFIC ARTICLE

HPLC Analysis of Citric and Tartaric Acids in Fruit Nectars and Juices

Suzana Inić, Maja Ljepović, Ana-Marija Domijan, Sabina Steiner Srdarević, Jasna Jablan, Ksenija Markov

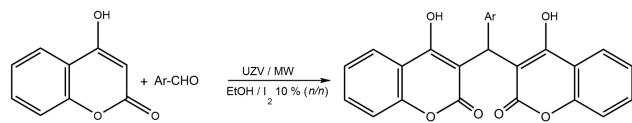


Croat. Chem. Acta 2020, 93(1), 57–62

DOI: 10.5562/cca3662

Green Chemistry Approach to the Synthesis of Biscoumarins from 4-Hydroxycoumarin

Mirjana Lončar, Marija Kovač, Maja Molnar

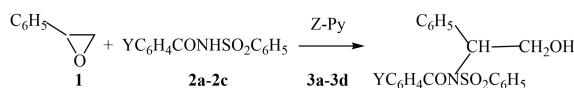


Croat. Chem. Acta **2020**, 93(1), 63–66

DOI: 10.5562/cca3643

Non-additive Effects of Structural Factors in Pyridine Catalyzed Reactions of Phenyloxirane with *N*-arylobenzenesulfonamides

Igor Shpan'ko, Irina Sadovaya



Y = 4-Me (**2a**), H (**2b**), 4-NO₂ (**2c**); Z = 4-Et (**3a**), H (**3b**), 3-COOEt (**3c**), 4-CN (**3d**)

$$\log k_{YZ} = -5.20 + 1.20\sigma_Y - 0.89\sigma_Z + 0.47\sigma_Y\sigma_Z$$

$$\sigma_Y^{IP} = 1.89 \quad \sigma_Z^{IP} = -2.55$$

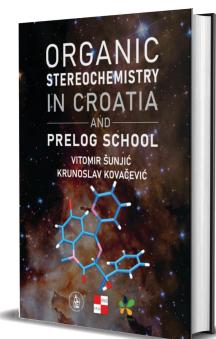
Croat. Chem. Acta **2020**, 93(1), 67–71

DOI: 10.5562/cca3658

OTHER PAPERS

Vitomir Šunjić and Krunoslav Kovačević
Organic Stereochemistry in Croatia and Prelog School

Mladen Žinić



Croat. Chem. Acta **2020**, 93(1), 73–76

DOI: 10.5562/cca3666

A diverse view of science to catalyse change

C. A. Urbina-Blanco, S. Z. Jilani, I. R. Speight, M. J. Bojdys, T. Friščić, J. Fraser Stoddart, T. L. Nelson, J. Mack, R. A. S. Robinson, E. A. Waddell, J. L. Lutkenhaus, M. Godfrey, M. I. Abboud, S. O. Aderinto, D. Aderohunmu, L. Bibič, J. Borges, V. M. Dong, L. Ferrins, F. Man Fung, T. John, F. P. L. Lim, S. L. Masters, D. Mambwe, P. Thordarson, M.-M. Titirici, G. D. Tormet-González, M. M. Unterlass, A. Wadle, V. W.-W. Yam, Y. Wei Yang



In Memoriam: Josip Kratochvil (1928 – 2020)

Vlasta Pinkston

Croat. Chem. Acta **2020**, 93(1), 83