

SCIENTIFIC ARTICLES – Proceedings of the 29th MCC Conference

REVIEW

The Total π -Electron Energy Saga

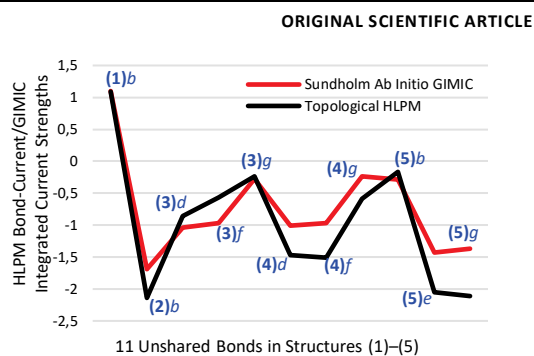
Ivan Gutman, Boris Furtula

Croat. Chem. Acta 2017, 90(3), 359–368
DOI: 10.5562/cca3189

Ring-Current Properties of Bispentalenes and Related Structures — Comparison of *Ab Initio* and Hückel-London-Pople-McWeeny (HLPM) ‘Topological’ Calculations

Timothy K. Dickens, Roger B. Mallion

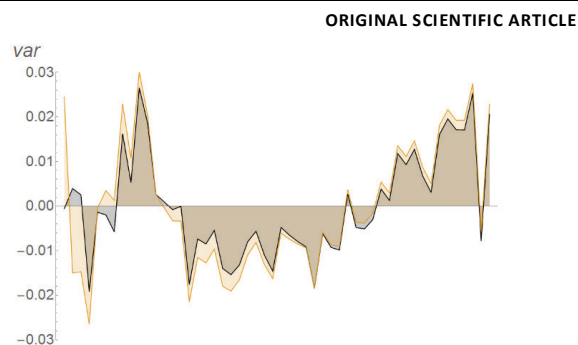
Croat. Chem. Acta 2017, 90(3), 369–382
DOI: 10.5562/cca3219



Polymerization of 1,4-dinitrosobenzene: Kinetics and Submicrocrystal Structure

Petar Bibulić, Igor Rončević, Vladimir Bermanec, Hrvoj Vančik

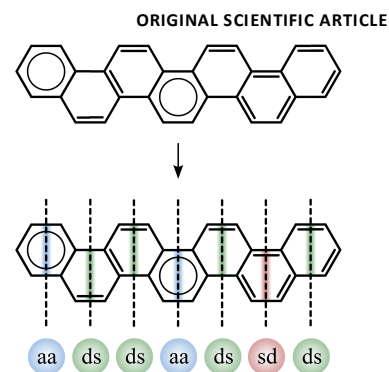
Croat. Chem. Acta 2017, 90(3), 383–389
DOI: 10.5562/cca3220



Connectivity Graphs for Single Zigzag Chains and their Application for Computing ZZ Polynomials

Johanna Langner, Henryk A. Witek

Croat. Chem. Acta 2017, 90(3), 391–400
DOI: 10.5562/cca3191



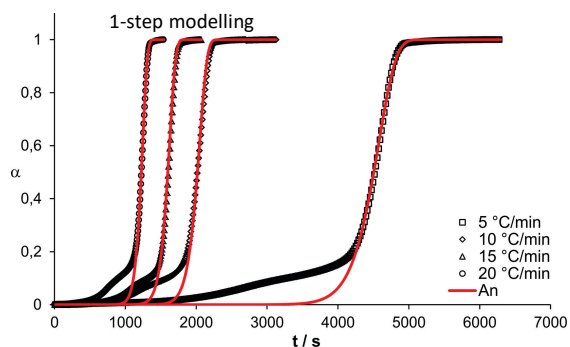
SCIENTIFIC ARTICLES – regular section

Kinetic Study of Thermal Degradation of High-impact Polystyrene Nanocomposites with Different Flame Retardants using Isoconversional and Model Fitting Methods

Zvonimir Katančić, Ivana Grčić, Zlata Hrnjak-Murgić

Croat. Chem. Acta **2017**, *90*(3), 401–411
 DOI: 10.5562/cca3110

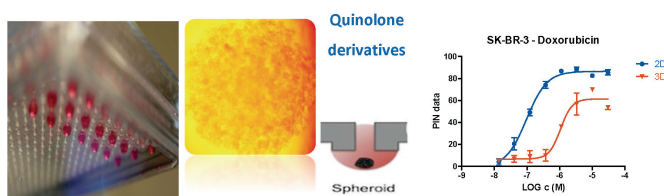
ORIGINAL SCIENTIFIC ARTICLE


Comparison of Antitumor Activity of Some Benzothioephene and Thienothiophene Carboxanilides and Quinolones in 2D and 3D Cell Culture System

Ivo Zlatar, Dubravko Jelić, Vanja Kelava, Maja Cindrić, Ivana Jarak, Sanja Koštrun, Grace Karminski-Zamola, Vesna Gabelica Marković, Marijana Hranjec, Karmen Brajša

Croat. Chem. Acta **2017**, *90*(3), 413–424
 DOI: 10.5562/cca3139

ORIGINAL SCIENTIFIC ARTICLE



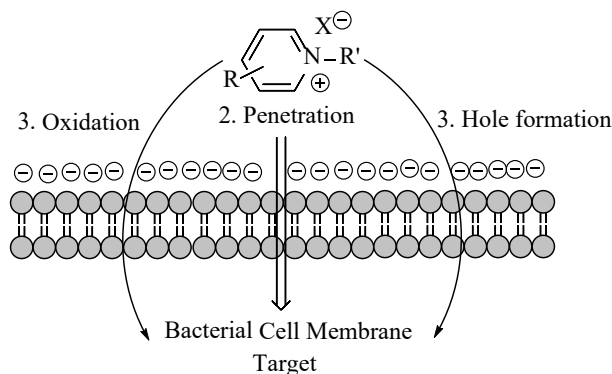
SK-Br-3 (or other) 3D/2D (5000c/w) - Antitumor activity

Microwave-assisted Quaternization of Various Pyridine Derivatives and their Antibacterial Activity

Valentina Bušić, Hrvoje Pavlović, Sunčica Roca, Dražen Vikić-Topić, Dajana Gašo-Sokač

Croat. Chem. Acta **2017**, *90*(3), 425–433
 DOI: 10.5562/cca2937

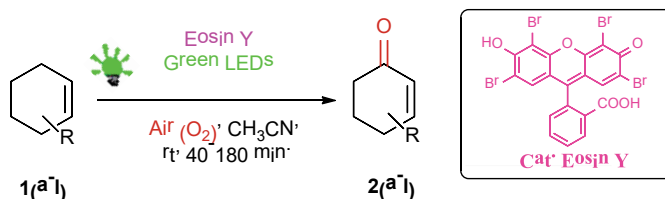
ORIGINAL SCIENTIFIC ARTICLE


Visible Light Promoted Allylic C–H Oxidation

Vishal Srivastava, Pravin K. Singh, Praveen P. Singh

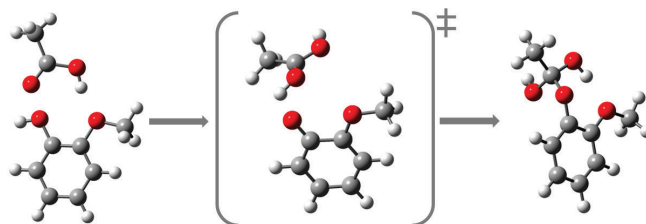
Croat. Chem. Acta **2017**, *90*(3), 435–441
 DOI: 10.5562/cca3126

ORIGINAL SCIENTIFIC ARTICLE



Ortho-Methoxy Group as a Mild Inhibitor of the Reactions Between Carboxylic Acid and Phenols

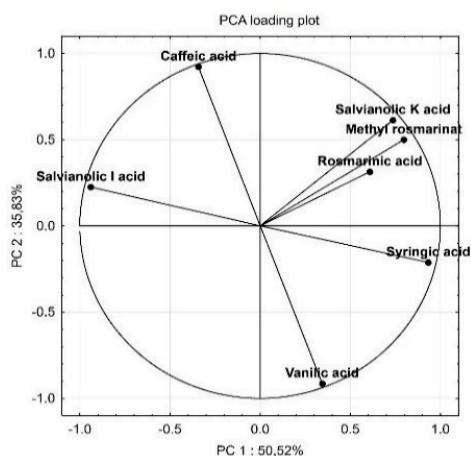
Andrea Guljas, Anita Rágyanszki, Béla Fiser, Béla Viskolcz, Imre G. Csizmadia



Croat. Chem. Acta **2017**, *90*(3), 443–450
DOI: 10.5562/cca3187

Polyphenolic Composition and Antioxidant Capacity of Indigenous Wild Dalmatian Sage (*Salvia officinalis* L.)

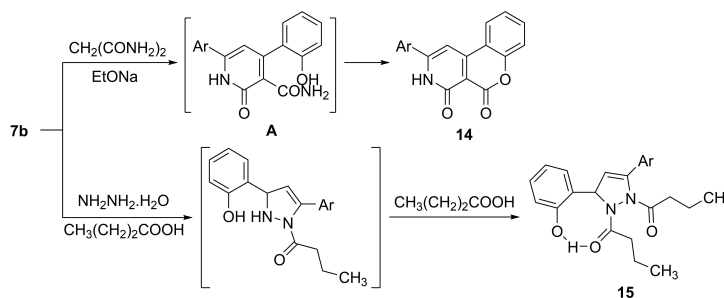
Maja Dent, Danijela Bursać Kovačević, Tomislav Bosiljkov, Verica Dragović-Uzelac



Croat. Chem. Acta **2017**, *90*(3), 451–459
DOI: 10.5562/cca3231

Michael Cyclization of Polarized Systems: Synthesis and *in vitro* Anti-Diabetic Evaluation of Some Novel Pyrimidine, Pyridine, Pyrazole and Pyrazolo[3,4-*b*]pyridine Derivatives

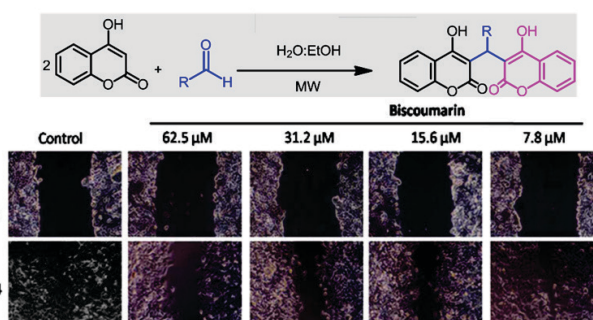
Essam A. Soylem, Mohammed G. Assy, Ghania M. Morsi



Croat. Chem. Acta **2017**, *90*(3), 461–469
DOI: 10.5562/cca3122

Anti-Metastatic Propensity of Biscoumarin Scaffold Synthesized Under Catalyst Free Aqueous Phase Microwave Irradiation

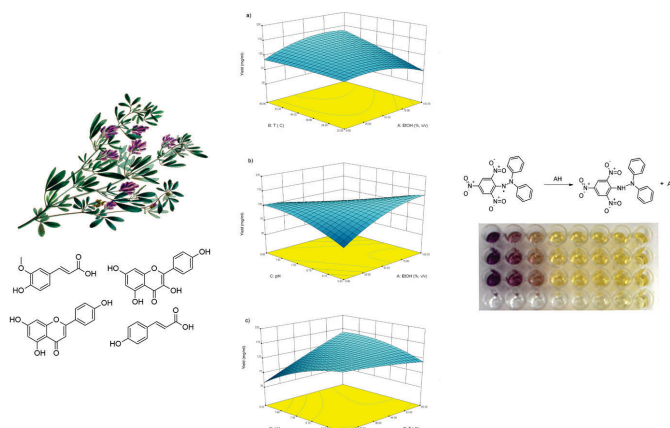
Shazia Muzaffar Banday, Asif Amin, Shabnum Bashir, Raies A. Qadri, Khaliqz Zaman Khan, Masood Ahmad Rizvi



Croat. Chem. Acta **2017**, *90*(3), 471–480
DOI: 10.5562/cca3136

Multi-response Optimization of Ultrasound-assisted Extraction of Bioactive Components from *Medicago sativa* L.

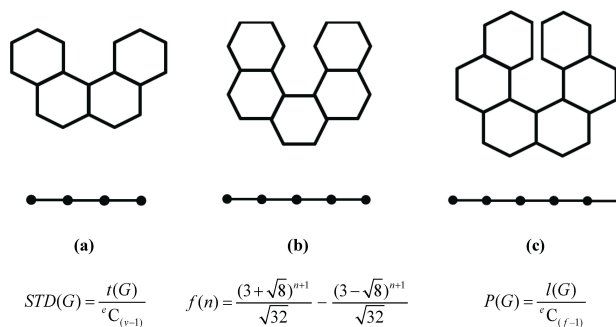
Barbara Fumić, Mario Jug, Marijana Zovko Končić



Croat. Chem. Acta **2017**, *90*(3), 481–491
DOI: 10.5562/cca3228

Molecular Complexity of Certain Homologous Series of Condensed Benzenoid Hydrocarbons: Limiting Values of the Patency Index and the Index of Spanning-Tree Density

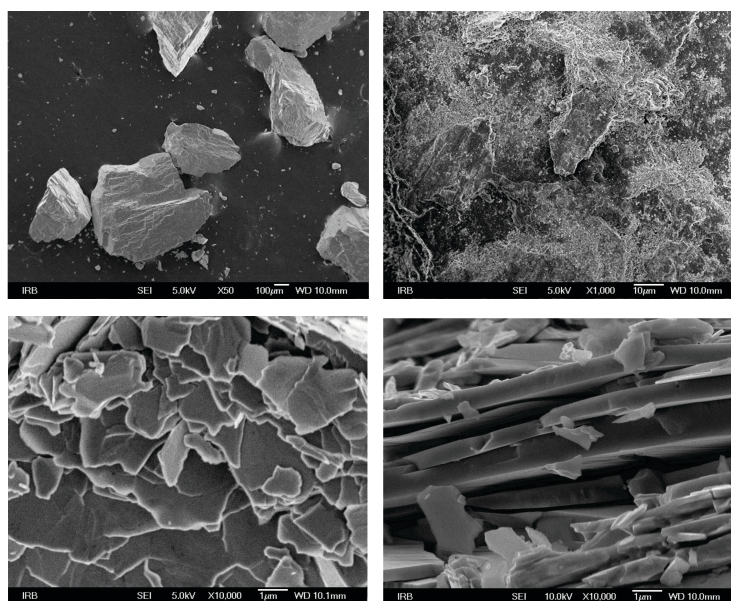
Roger B. Mallion, Paul Pollak, Paweł J. Skrzyński



Croat. Chem. Acta **2017**, *90*(3), 493–498
DOI: 10.5562/cca3212

⁵⁷Fe Mössbauer, XRD, FT-IR, FE SEM Analyses of Natural Goethite, Hematite and Siderite

Mira Ristić, Stjepko Krehula, Michael Reissner, Svetozar Musić



Croat. Chem. Acta **2017**, *90*(3), 499–507
DOI: 10.5562/cca3233

OTHER PAPERS

ESSAY

Fran Bubanović: The Visionary of Medical Chemistry and Biochemistry in Croatia

Vladimir Damjanović, Kristina Mlinac-Jerković, Svjetlana Kalanj
Bognar, Jasna Lovrić

Croat. Chem. Acta **2017**, *90*(3), 509–514
DOI: 10.5562/cca3157

BOOK REVIEW

Snježana Paušek-Baždar
Hrvatski alkemičari tijekom stoljeća
[Croatian alchemists within centuries]

Astrid Gojmerac Ivšić

Croat. Chem. Acta **2017**, *90*(3), 515–516
DOI: 10.5562/cca3218

OBITUARY

Vladimir Simeon (1939 – 2017)

Vladislav Tomišić

Croat. Chem. Acta **2017**, *90*(3), 517–518
DOI: 10.5562/cca3235
