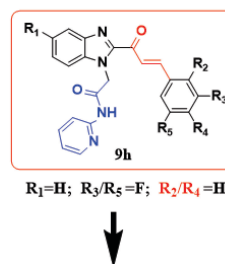


SCIENTIFIC ARTICLES

ORIGINAL SCIENTIFIC ARTICLE

A Step-by-Step Synthesis of Pyridine-Benzimidazole-Chalcone Hybrids: Anticancer and Antimycobacterial Activity

Nagesh V. Edake, Samadhan A. Shenmare, Pravin S. Bhale, Mahesh G. Hublikar, Dattatraya G. Raut, Ganesh B. Pandhare, Nikita S. Pendpale, Sadanand N. Shringare, Raghunath B. Bhosale



GI_{50} = 1.0 μ M MCF-7

MIC = 12.5 μ g/mL, M. Tuberculosis (vaccine strain, H37RV Strain); ATCC No-27294

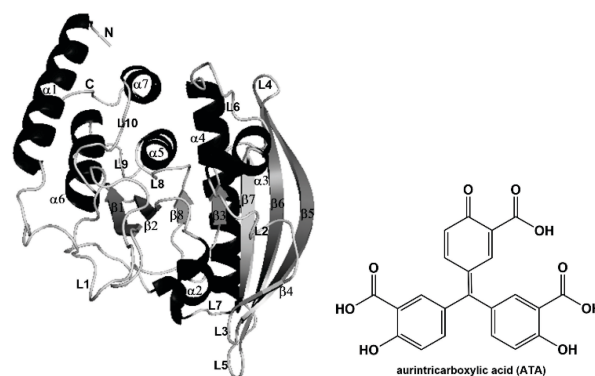
Croat. Chem. Acta 2025, 98(4), 223–230

DOI: 10.5562/cca4203

ORIGINAL SCIENTIFIC ARTICLE

A View of the Inhibition Specificity of Aurintricarboxylic Acid Toward Protein Tyrosine Phosphatases: Implications for Structure-Based Phosphatase Inhibitor Design

Petar M. Mitrasinovic



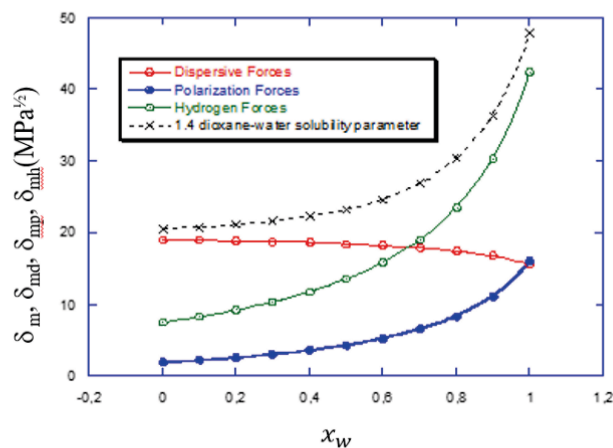
Croat. Chem. Acta 2025, 98(4), 231–245

DOI: 10.5562/cca4168

ORIGINAL SCIENTIFIC ARTICLE

Influence of Temperature and NaCl Impurities on Molecular Interactions in 1,4-Dioxane–Water Mixtures: A Grunberg–Nissan Model Analysis

Lilia Ajroudi, Moez Guettari, Ahmed El Afeni, Renato Tomaš, and Tahar Tajouri

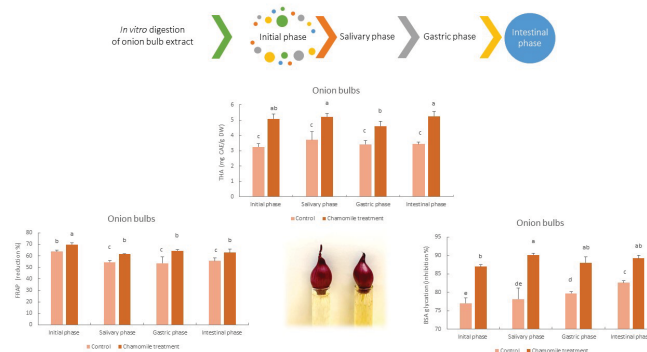


Croat. Chem. Acta 2025, 98(4), 247–254

DOI: 10.5562/cca4193

Improving Polyphenol Profile, Antioxidant and Antiglycation Activity of Onion Bulbs

Valerija Vujčić Bok, Sanja Gagić, Ivana Šola, Petra Kašnjar Perković, Lucija Rubinić, Nika Celinić, Gordana Rusak, Željko Maleš

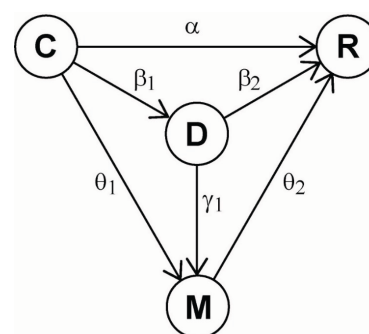


Croat. Chem. Acta **2025**, *98*(4), 255–265
DOI: 10.5562/cca4208

Novel Laplacian Matrix-based Molecular Descriptors Derived by Graph Convolution: Development and Applications in QSAR Studies

Igor Kuzmanovski, Subhash C. Basak

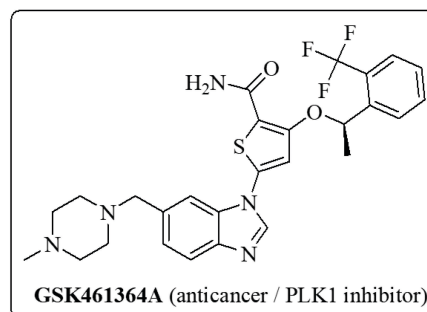
Croat. Chem. Acta **2025**, *98*(4), 267–278
DOI: 10.5562/cca4199



Synthesis, Characterization and Biological Evaluation of Imidazo[1,2-a]pyridine Integrated Thiazole Chalcones as Potent Anti-Breast Cancer and Antimicrobial Agents

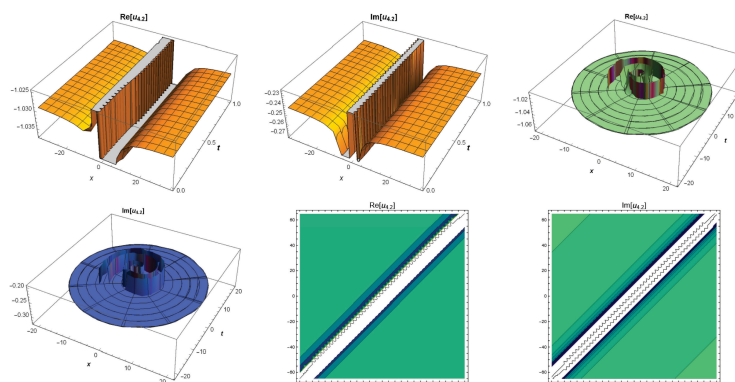
Samadhan A. Shenmare, Dnyaneshwar M. Sirsat, Sadanand N. Shringare, Nagesh V. Edake, Nikita N. Mali, Raghunath B. Bhosale, Pravin S. Bhale

Croat. Chem. Acta **2025**, *98*(4), 279–287
DOI: 10.5562/cca4224



On the Double-Stranded DNA Model by Using an Analytical Method in Soliton Theory

Wei Gao, Haci Mehmet Baskonus



Croat. Chem. Acta **2025**, *98*(4), 289–297
DOI: 10.5562/cca4162