

# Prof. Gustavo Portalone

Peer-reviewed Articles 2016 - 2021  
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1 - G. Portalone, J. O. Moilanen, H. M. Tuononen, Kari Rissanen: "The Role of Weak Hydrogen Bonds and Halogen Bonds in 5-Halo-1,3-dimethyluracils and their Cocrystals - A Combined Experimental and Computational Study".

*Cryst. Growth Des.*, 16, 2631 (2016). [IF = 4.153]

2 - N. R. Filipović, S. Bjelogrlić, G. Portalone, S. Pelliccia, R. Silvestri, O. Klisurić, M. Senčanski, D. Stanković, T. R. Todorović, C. D. Muller: "Pro-apoptotic and pro-differentiation induction by 8-quinolinecarboxaldehyde selenosemicarbazone and its Co(III) complex in human cancer cell lines".

*MedChemComm*, 7, 1604 (2016). [IF = 3.470]

3 - T. R. Todorović, J. Vukašinović, G. Portalone, S. Suleiman, N. Gligorijević, S. Bjelogrlić, K. Jovanović, S. Radulović, K. Andelković, A. Cassar, N. R. Filipović, P. Schembri-Wismayer: "(Chalcogen)semicarbazones and their cobalt complexes differentiate HL-60 myeloid leukaemia cells and are cytotoxic towards tumor cell lines".

*MedChemComm*, 8, 103 (2017). [IF = 3.470]

4 – I. S. Djordjević, J. Vukašinović, T. R. Todorović, N. R. Filipović, M. Rodić, A. Lolić, G. Portalone, M. Zlatović, S. Grubišić: "Synthesis, structures and electronic properties of Co(III) complexes with 2-quinolinecarboxaldehyde thio- and seleno-semicarbazone: a combined experimental and theoretical study".

*J. Serb. Chem. Soc.*, 82, 825 (2017). [IF = 1.240]

5 – S. Irrera, S. E. Ruiz-Hernandez, M. Reggente, D. Passeri, M. Natali, F. Gala, G. Zollo, M. Rossi, G. Portalone: "Self-assembling of calcium salt of the new DNA base 5-carboxylcytosine".

*Appl. Surf. Sc.*, 407, 297 (2017). [IF = 6.707]

6 - N. D. Rode, A. Arcadi, M. Chiarini, F. Marinelli, G. Portalone: "Gold-Catalyzed Synthesis of Dibenzo[1,5]diazocyne ring from  $\beta$ -(2-Aminophenyl)- $\alpha$ , $\beta$ -ynones".

*Adv. Synt. & Cat.*, 359, 3371 (2017). [IF = 5.837]

7 – G. Righi, R. Pelagalli, V. Isoni, I. Tirotta, M. Marini, M. Palagri, R. Dallocchio, A. Dessì, B. Macchi, C. Frezza, G. Forte, A. Dalla Cort, G. Portalone, Paolo Bovicelli: "Synthesis of potential HIV integrase inhibitors inspired by natural polyphenol structures".

*Nat. Prod. Res.*, 32, 1893 (2018). [IF = 2.862]

8 - G. Portalone, K. Rissanen: "Multifacial Recognition in Binary and Ternary Cocrystals from 5-Halouracil and Aminoazine Derivatives".

*Cryst. Growth Des.*, 18, 5904 (2018). [IF = 4.153]

9 - O. R. Klisurić, S. J. Armaković, S. Armaković, S. Marković, T. R. Todorović, G. Portalone, N. R. Filipović: "Structural and computational study of quinoline-based chalcogensemicarbazones".

*Acta Cryst. A* 75, 566 (2019). [IF = 2.290]

10 - G. Portalone: "6-Methyluracil: a redetermination of polymorph (II)".  
*IUCrData*, 4, x190861 (2019).

11 – G. Portalone: "Site Selectivity of Halogen Oxygen Bonding in 5- and 6-Haloderivatives of Uracil".  
*Crystals*, 9, 467 (2019). [IF = 2.670]

12 – O. R. Klisurić, S. J. Armaković, S. Armaković, S. Marković, T. R. Todorović, G. Portalone, K. Novović, J. Lozo, N. R. Filipović: "Structural, biological and in-silico study of quinoline-based chalcogen semicarbazones".  
*J. Mol. Struct.*, 1203, 127482 (2020). [IF = 3.196]

13 – A. Arcadi, M. Aschi, M. Chiarini, F. Marinelli, V. Marsicano, G. Portalone: "Experimental results and computational insight into sequential reactions of  $\beta$ -(2-aminophenyl)- $\alpha,\beta$ -ynones with aryl isocyanates/benzoyl isothiocyanate".  
*Org. Biomol. Chem.*, 18, 3177 (2020). [IF = 3.890]

14 - G. Portalone: "Crystal structure and Hirshfeld surface analysis of a third polymorph of 2,6-di methoxybenzoic acid".  
*Acta Cryst.*, E76, 1823 (2020).

15 – G. Portalone: "5-Fluorocytosine/Isocytosine Monohydrate. The First Example of Isomorphic and Isostructural Co-Crystal of Pyrimidine Nucleobases". **Editor's Choice article**.  
*Crystals*, 10, 999 (2020). [IF = 2.670]

16 – A. Goulielmina, A. Bauzá, L. Gentiluomo, J. M. Cunha Rodrigues, G. Portalone, A. Frontera, K. Rissanen, R. Puttreddy: "Short X···N Halogen Bonds with Hexamethylenetetraamine as the Acceptor".  
*Front. Chem.*, 9, 623595 (2021). [IF = 4.870]

17 - M. Aschi, G. Toto Brocchi, G. Portalone: "A Combined Experimental and Computational Study of Halogen and Hydrogen Bonding in Molecular Salts of 5-Bromocytosine". **Editor's Choice article**.  
*Molecules*, 26, 3111 (2021). [IF = 4.927]

## PAPERS PUBLISHED IN INTERNATIONAL PEER-REVIEWED PROCEEDINGS

P1 - F. Di Rienzo, A. Domenicano, G. Portalone, A. Vaciago: "Benzene Ring Deformations in *para*-Substituted Anisoles"  
*Izv. Jugosl. cent. kristalogr., Suppl Vol. 11, A102* (1976).

P2 - G.B. Marini-Bettolo, C. Galeffi, I. Messana, M. Nicoletti, J.U. Oguakwa, M. Patamia, G. Portalone, K. Prout, A. Vaciago: "The Structure of Boonein, a possible Precursor in the Indole Alkaloid Biogenesis".  
*God. Jugosl. cent. krystalogr., Suppl. Vol. 17, S67* (1982).

## GUEST EDITORSHIP

GE1 – "Noncanonical Nucleobases".

*Crystals* (2018).

GE2 – "Design, Synthesis, and Structures of Modified RNA/DNA Bases".

*Crystals* (2019).

GE3 – "Structural Characterization and Analysis of Intercalation, Adsorption and Insertion of Chemical Species into Micro and Nanometric materials".

*Frontiers in Chemistry* (2020).

GE4 – "DNA and Small Molecular Complex Crystallization".

*Crystals* (2021).

GE5 – "Halogenated Nucleic Acids".

*Molecules* (2021).

## BOOK CHAPTERS

BC1 - G. Portalone: "Applicazioni dei metodi MO *ab initio* a problemi d'interesse strutturistico".  
*Atti della XXII Scuola A.I.C.*, Perugia 'Villa La Colombella' (1992).

BC2 – L. Campanella, G. Portalone: "I metalli e le leghe".

L. Campanella, A. Casoli, M.P. Colombini, R. Marini Bettolo, M. Matteini, M.L. Migneco, A. Montenero, L. Nodari, C. Piccioli, M. Plossi, G. Portalone, U. Russo, M. Sammartino: "*CHIMICA PER L'ARTE*", Zanichelli (2007). Cap. VI, pp. 347-409.

## UNIVERSITY BOOKS

B1) L. Loreto, G. Portalone, P. Ugliengo, Eds. "*Acquisizione, valutazione ed utilizzo di dati diffrattometrici e strutturali in cristallografia*". Centro Stampa dell'Università (Pg) (1994).

B2) L. Loreto, G. Portalone, P. Ugliengo, Eds. "*Fondamenti di crescita cristallina*". Centro Stampa dell'Università (Pg) (1995).

B3) L. Loreto, G. Portalone, P. Ugliengo, Eds. "*Cristallografia strutturale e riconoscimento di specie molecolari e ioniche*". Centro Stampa dell'Università (Pg) (1996).

B4) L. Campanella, A. Casoli, M.P. Colombini, R. Marini Bettolo, M. Matteini, M.L. Migneco, A. Montenero, L. Nodari, C. Piccioli, M. Plossi, G. Portalone, U. Russo, M. Sammartino: "*CHIMICA PER L'ARTE*", Zanichelli (2007).