

Prof. VALERIA CONTE

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Hindex 40; citations >4400 (nov. 2021)

Teaching: <https://didatticaweb.uniroma2.it/it/home/index/79521>

82 Chemistry Laurea, Padova Univ. (Italy), 110/110

82-83 ENI Research Fellow, CNR Center on Biopolymers on "Protein Crystallography" 83-86

Ph.D. degree in Chemical Sciences, Univ. of Padova, Superv. prof. G. Modena.

85-86 Ph.D. student with prof. J.K. Stille at Colorado State Univ., Ft. Collins. Co. USA. 86-87

Consultant for INTEROX chimica s.p.a.

87-88 CNR fellowship at CNR Center "Centro Meccanismi Reazioni Organiche" Padova Univ. 88-

98 CNR Researcher at CNR Center "Centro Meccanismi Reazioni Organiche" Padova Univ.

Aug.93 - Oct.93 NATO-CNR Senior Fellowship at Colorado State Univ. Ft. Collins Co. USA.

98-01 Assoc. prof. of Organic Chemistry, Univ. of Foggia

01-06 Assoc. prof. of Organic Chemistry, Univ. of Roma Tor Vergata

01-11-06 - Full professor of Organic Chemistry

10-16 -09-18 President of the ASN 2016 commission for SC 03 / C1 ssd CHIM / 06.

Nov.18- today Head of Dept. Chem. Science and Technologies & Member of the Academic Senate

Membership Italian Chemical Society (2011-2013 member of the Board of the Organic Chemistry Division, 2014-2016 Vice-president)

Prof. Conte continuously carries out referee activities for numerous International scientific journals in the chemical field; It also carries out refereeing activities for research funding for both public agencies and universities, at national and international level. He is a member of the permanent register of MIUR program auditors (Firb and PRIN), auditor for the National Agency for Evaluation of the University and Research System (ANVUR).

Currently Member of international advisory boards of "ADHOC International Symposium on Dioxygen Activation and Homogeneous Catalytic Oxidation" and "International Symposium on Chemistry and Biochemistry of Vanadium (Chair 2012-2021)"; "Spanish Italian Symposium on Organic Chemistry" (2011-2016), Scientific Board di "A. Corbella" International Summer School on Organic Synthesis dal 2018 - 2022.

Coordinator of COST WG D12/0027/99 New Catalysts for Environmentally Friendly Oxidations with H<sub>2</sub>O<sub>2</sub> or O<sub>2</sub>

Coordinator of COST WG D29/0016/04 Novel sustainable metal catalysed oxidations with H<sub>2</sub>O<sub>2</sub> and O<sub>2</sub>

Italian Representative for COST action D24 Stereoselective Transition Metal-Catalysed Reactions

Italian Representative for COST action D40 Innovative Catalysis: New Processes and Selectivities

Coordinator of COST D40 WG1 Innovative Catalysis in Oxidation reactions Substituted Italian

MC member Cost Action CM 1003 Biological oxidation reactions - mechanisms and design of new catalysts. Coordinator of CM 1003 WG 3 Oxidation of substrates utilizing H<sub>2</sub>O<sub>2</sub> as oxidant

Participant in CA CM1205 Catalytic Routines for Small Molecule Activation (CARISMA).

Member of External Expert Panel of EU Cost

Prof. Conte published her scientific results in more than 140 papers in International peer reviewed

Journals, 17 book chapters, 2 Patents. She presented her research in more than 200 International and National meetings, several times as invited and plenary speaker (8 invited and 2 plenary in international meetings in the last 5 years).

2019- Organic Chemistry Division, SCI, Senior Research prize “Chimica Organica per l’ambiente, l’energia e le nanoscienze”

Participation in Cofin/Prin projects:

COFIN 98 “Efficient processes for the controlled oxidations of organic compounds”. Member in Padova Univ. UO.

COFIN 2000 “Activation of peroxidic species in innovative selective oxidation processes”. Member in Ferrara Univ. UO.

PRIN 2003 “Sviluppo di nuovi catalizzatori riciclabili per processi di ossidazione con acqua ossigenata”. PI Roma Tor Vergata UO.

PRIN 2008 “Spettroscopia e dinamica di composti organici: effetto della struttura e del mezzo sulle proprietà degli stati elettronici eccitati” member Roma Tor Vergata UO.

PRIN 2010-11 “Proprietà fotofisiche e fotochimiche di composti organici e di interesse biologico in soluzione e in sistemi organizzati” member Roma Tor Vergata UO.

#### Recent selected publications

1. F. Sabuzi, G. Pomarico, B. Floris, F. Valentini, P. Galloni, V. Conte, Sustainable bromination of organic compounds: a critical review, *Coord. Chem. Rev.* **385**, 100-136 (2019) 10.1016/j.ccr.2019.01.013.
2. F. Sabuzi, A. Coletti, G. Pomarico, B. Floris, P. Galloni, V. Conte, Modulating electron transfer in ferrocene-naphthoquinone dyads: New insights in parameters influencing ET efficiency, *J. Organomet. Chem.* **885**, 49-58 (2019) 10.1016/j.jorganchem.2019.02.001.
3. F. Sabuzi, A. Coletti, V. Conte, B. Floris, P. Galloni, Zinc Porphyrins-Anthraquinonylimidazoles supramolecular dyads, *J. Porphyrins Phthalocyanines* **24**, 850-859 (2019) (DOI: 10.1142/S1088424619501943).
4. M. Tiravia, F. Sabuzi, M. Cirulli, S. Pezzola, G. Di Carmine, D. O. Cicero, B. Floris, V. Conte, P. Galloni, 3,7-bis(*N*-methyl-*N*-phenylamino)phenothiazinium salt: improving synthesis and understanding aggregation behavior in solution, *Eur. J. Org. Chem.* 3208–3216 (2019) 10.1002/ejoc.201900504.
5. G. Pomarico, F. Sabuzi, V. Conte, P. Galloni, Bromination of tetrapyrrolic scaffolds: a sustainable approach, *New J. Chem.*, **43**, 17774-17782 (2019) (DOI: 10.1039/C9NJ02503K).
6. C. Piombino, H. Lange, F. Sabuzi, P. Galloni, V. Conte, C. Crestini, Lignosulfonate Microcapsules for Delivery and Controlled Release of Thymol and Derivatives, *Molecules* **25**, 866 (2020) (DOI: 10.3390/molecules25040866).
7. G. A. Volpato, M. Marasi, T. Gobbato, F. Valentini, F. Sabuzi, V. Gagliardi, A. Bonetto, A. Marcomini, S. Berardi, V. Conte, M. Bonchio, S. Caramori, P. Galloni, A. Sartorel, Photoanodes for water oxidation with visible light based on a pentacyclic quinoid organic dye enabling proton-coupled electron transfer, *Chem. Commun.* **56**, 2248 (2020) (DOI: 10.1039/C9CC09805D).
8. F. Sabuzi, M. Stefanelli, D. Monti, V. Conte, P. Galloni, Amphiphilic Porphyrin Aggregates: A DFT Investigation, *Molecules* **25**, 133 (2020) (DOI: 10.3390/molecules25010133)
9. L. Penín, M. Gigli, F. Sabuzi, V. Santos, P. Galloni, V. Conte, J. C. Parajó, H. Lange, C. Crestini, Biomimetic Vanadate and Molybdate Systems for Oxidative Upgrading of Iono- and Organosolv Hard- and Softwood Lignins, *Processes* **8**, 1161 (2020) (DOI: 10.3390/pr8091161).

10. F. Valentini, G. Ferracci, P. Galloni, G. Pomarico, V. Conte, F. Sabuzi. Sustainable Highly Selective Toluene Oxidation to Benzaldehyde *Catalysts* **11**, 262 (2021) (DOI: 10.3390/catal11020262).
11. F. Sabuzi, G. Pomarico, V. Conte, P. Galloni, Chapter 5: Peroxo-vanadium Complexes as Sustainable Catalysts in Oxidations, Halogenations and Other Organic Transformations Sutradhar M., Da Silva J.A.L., Pombeiro A.J.L. (ed.) Vanadium Catalysis (RSC Catalysis Series), Pages 97-110 (DOI: 10.1039/9781839160882-00097) (2021)
12. F. Valentini, F. Sabuzi, V. Conte, V. Nemykin, P. Galloni. Unveiling KuQuinone Redox Species: an Electrochemical and Computational Cross Study, *J. Org. Chem.* **86**, 5680-5689 (2021) (DOI: 10.1021/acs.joc.1c00165).
13. A. Vecchi, J. R. Sabin, F. Sabuzi, V. Conte, D. O. Cicero, B. Floris, P. Galloni, V. N. Nemykin Similar, Yet Different: Long-Range Metal–Metal Coupling and Electron-Transfer Processes in Metal-Free 5,10,15,20-Tetra(ruthenocenyl)porphyrin, *Inorg. Chem.* **60**, 8227-8241 (2021) (DOI: 10.1021/acs.inorgchem.1c00908).
14. B. Floris, P. Galloni, V. Conte, F. Sabuzi, Tailored Functionalization of Natural Phenols to Improve Biological Activity *Biomolecules* **11**, 1325 (2021) [doi.org/10.3390/biom11091325](https://doi.org/10.3390/biom11091325)
15. M. Forchetta, V. Conte, G. Fiorani, P. Galloni, F. Sabuzi, A sustainable improvement of  $\omega$ -bromoalkylphosphonates synthesis to access novel KuQuinones, *Organics*, **2** 107-117 (2021) (Manuscript ID: organics-1220946).