Rita Petrucci

Curriculum Vitae Brevis

Education

1988 - Degree in Chemistry, Sapienza University of Rome, 110/110

1989 - Grant, Istituto di Ricerca Francesco Angelini

Position

1990 - Project Leader Research&Development, Chemi S.p.A., Patrica (FR)

1991 – Graduated technician – Sapienza University of Rome

1996 – Assistant Professor of Chemistry (CHIM/07) – Sapienza University of Rome –Dept. of Basic and Applied Sciences for Engineering (SBAI)

Teaching

From 1999/2000 to 2006/2007 charged with teaching of General Chemistry Courses for the Degree Courses in Engineering Environment, Information Technology;

From 2007/2008 to date charged with teaching of General Chemistry Courses for the Degree Course in Clinical Engineering;

From 2017/18 to date charged with teaching of Fundamentals of Environmental Chemistry for the Master Degree in Environmental Engineering, chairing the examination committees at Sapienza University of Rome

Research activities

Molecular electrochemistry and spectroelectrochemistry of organic compounds: mechanistic studies, radical intermediates, bioactivity, antioxidant properties, oxidative stress

Chromatography, UV-vis spectrophotometry and mass spectrometry for analysis of food, beverages and by-products of agri-food industry

Referee

Electrochimica Acta, Journal of Applied Electrochemistry, Journal of Electroanalytical Chemistry, Journal Physical Chemistry, Bioelectrochemistry, Journal of Agricoltural and Food Chemistry, Food Chemistry, Food Bioproducts Processing, Journal of Food Engineering, Antioxidants, Molecules, Environments, Waste and Biomass

Memberships and affiliations

Italian Chemical Society since 2018

Participation in Research Programs

Participant or project manager in University, Faculty and PRIN since 1992.

Activities of organization, management and coordination

Degree theses – Chemistry of antioxidants

Commissione di Gestione dell'Assicurazione Qualità (CGAQ) – Clinical Engineering, Sapienza University of Rome

Recent Publications

R. Petrucci, I. Chiarotto, L. Mattiello, D. Passeri, M. Rossi, G. Zollo and M. Feroci, Graphene Oxide: A Smart (Starting) Material for Natural Methylxanthines Adsorption and Detection. *Molecules* 24, 4247 (**2019**)

F. Pandolfi, I. Chiarotto, L. Mattiello, R. Petrucci and M. Feroci, Two Different Selective Ways in the Deprotonation of β-Bromopropionanilides: β-Lactams or Acrylanilides Formation. *ChemistrySelect* 4, 12871–12874 (**2019**).

Chiarotto, L. Mattiello, F. Pandolfi, D. Rocco, M. Feroci and R. Petrucci, Electrochemical Oxidation of Theophylline in Organic Solvents: HPLC-PDA-ESI-MS/MS Analysis of the Oxidation Products. *ChemElectroChem* 6, 4511–4521 (**2019**)

M. Feroci, T. Civitarese, F. Pandolfi, R. Petrucci, D. Rocco, D. Zane, G. Zollo and L. Mattiello. Electrochemical studies of new donor-acceptor oligothiophenes. *ChemElectroChem* 6, 4016–4021 (**2019**)

N. Lovecchio, F. Costantini, A. Nascetti, R. Petrucci, G. de Cesare, D. Caputo. Development of an Electrochemiluminescence-based Lab-on-Chip Using Thin/Thick Film Technologies. Proceedings - 8th International Workshop on Advances in Sensors and Interfaces, IWASI 2019, Otranto, Italy, June 13-14, 2019, Article number 8791281, pp. 79-83 (**2019**)

R. Petrucci, G. Zollo, A. Curulli, G. Marrosu. A new insight into the oxidative mechanism of caffeine and related methylxanthines in aprotic medium: May caffeine be really considered as an antioxidant? *BBA - General Subjects*, 1862, 1781-1789 (**2018**)

A.Panusa, R. Petrucci, R. Lavecchia, A. Zuorro, "UHPLC-PDA-ESI-TOF/MS Metabolic Profiling and Antioxidant Capacity of Arabica and Robusta Coffee Silverskin: Antioxidants vs Phytotoxins", *Food Research International*, 99, 155-165 (**2017**)

A. Trani, R. Petrucci, G. Marrosu, D. Zane, A. Curulli. Selective Electrochemical Determination of Caffeine at a Gold-Chitosan Nanocomposite Sensor: May Little Change on Nanocomposites Synthesis Affect Selectivity? *Journal of Electroanalytical Chemistry*, 788, 99-106 (**2017**)

A. Panusa, R. Petrucci, G.Marrosu, G. Multari, F. R. Gallo, "UHPLC-PDA-ESI-TOF/MS metabolic profiling of Arctostaphylos pungens and Arctostaphylos uva-ursi. A comparative study of phenolic compounds from leaf methanolic extracts", *Phytochemistry*, 115, 79-88 (**2015**)

A. Trani, R. Petrucci, G. Marrosu and A. Curulli. Determination of Caffeine @ Gold Nanoparticles Modified Gold (Au) Electrode: A Preliminary Study, Lecture Notes in Electrical Engineering, Sensors, Springer International Publishing Switzerland 2015, 319, pp147-151 (**2015**)

A. Panusa, A. Zuorro, R. Lavecchia, G. Marrosu and R. Petrucci Recovery of Natural Antioxidants from Spent Coffee Grounds, *Journal of Agricoltural and Food Chemistry*, 61, 4162-4168 (**2013**)