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COURSE: *Basics of Sensors, chem- & bio-sensors*

1. RESEARCH AND INTERNATIONAL ACTIVITY

Areas of scientific interest: Nanoantimicrobials, Sensors, Surface science, Analytical Spectroscopy, Electrochemistry of Nanomaterials, Nanomaterials for Mass Spectrometry, Industrial applications of Nanomaterials, Electron Microscopy.

International Activities:

Editorial activities (editor of international Journals/Books):

1) *Nanomaterials journal*: Special issue on [Nanomaterials for Mass Spectrometry Applications](#)

2) *Molecules journal*: Special issue on [Metal Nanocatalysts in Green Synthesis & Energy Applications](#)

3) *Nanoantimicrobials*: the first and most downloaded (cca 40K downloads) book on [Nanoantimicrobials](#), Springer-Verlag Publisher.

Recent International Conferences (co-organized, or co-chaired):

1) Electrochemistry in... ingenious molecules, surfaces, devices [ECHEMS2017](#)

2) 21st International Conference on Solid State Ionics, Symposium III-2 ‘Printable bioelectronics: the role of electrolyte and electrochemical systems’ [SSI21, SympIII-2](#)

Erasmus programme:

Exchange of students with the University of Ulm -Institute of Analytical and Bioanalytical Chemistry- activated two years ago (2 students/year, on average)

2. ADDITIONAL INFORMATION

Selected recent publications:

1) “Recent advances in the synthesis and characterization of nano-antimicrobials” M.C. Sportelli, R.A. Picca, N. Cioffi, *Trends in Analytical Chemistry*, 84-A, 131–138, 2016.

2) “Electrosynthesis and characterization of ZnO nanoparticles as inorganic component in organic thin-film transistor active layers”, R.A. Picca, M.C. Sportelli, D. Hötger, K. Manoli, C. Kranz, B. Mizaikoff, L. Torsi, N. Cioffi, *Electrochimica Acta*, 178, 45-54, 2015.

3) “Sn-deficiency in the electrodeposited ternary CuxSnySz thin-films by ECALE” S. Caporali, A. Tolstoguzov, O.M.N.D. Teodoro, M. Innocenti, F. DiBenedetto, S. Cinotti, R.A. Picca, M.C. Sportelli, N. Cioffi, *Solar Energy Materials & Solar Cells*, 138, 9-16, 2015