



Fabiana Arduini

Senior Researcher
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Academic qualification

- 11/2007 -current Permanent position as Senior Researcher at Department of Chemical Science and Technology (Analytical Chemistry), University of Rome "Tor Vergata"
- 11/ 2003-11/2006 PhD in Chemical Science at the University of Rome "Tor Vergata" - The thesis title is: "*Development of the analytical methods based on cholinesterase inhibition for environmental and food analysis*"
- 05/2003 Master Degree in Chemistry "*cum laude*" at the University of Rome "Tor Vergata" in 2003 - the thesis title: "*Development of the electrochemical sensors for thiols detection for environmental and clinical applications*"

Awards

- 04/2017 Habilitation as *Full Professor* in Analytical Chemistry (Italian Ministry for Research)
- 06/2013 Habilitation as *Associate Professor* in Analytical Chemistry (Italian Ministry for Research)
- 09/2013 "*Best Young Researcher*" Award from the Analytical Chemistry Division of the Italian Chemical Society.
- 2012 "Top cited author" for 2010-2011 on Biosensors and Bioelectronics journal (IF 6.451) for the paper entitled "*A thionine-modified carbon paste amperometric biosensor for catechol and bisphenol A determination*"

Member of Editorial Board and Scientific Societies/Committees

December 2011	Member of editorial board for the special issue " <i>New Trends for the Determination of Pesticides in Environmental Samples</i> " in the American Journal of Analytical Chemistry 12/2011
2005 -current	Member of SCI (Italian Chemical Society).
2014-current	Editorial board of Journal of Biosensors and Bioelectronics, Austin Publishing group
2017	Member of International Scientific Committee of the Conference 2nd International Conference "CBRN Research & Innovation", Lyon (France), May 29 –June 1, 2017.

Research activity

The research interests include the development of Bioassay and Biosensor systems, Electrochemical (bio)sensors, Electrochemical Mediators, Screen-Printed Electrodes (how to use, fabricate and modify them), Sensors and Biosensors modified with Nanomaterials (carbon black, carbon nanotubes, gold nanoparticles, etc.), Paper based sensors. Real applications in the field of clinical, food and environmental analytical chemistry.

Publications

The research activity carried out was published in several papers as follows:

-**64** articles (**9** reviews) in ISI peer-reviewed journals, among them with high impact factor in the analytical chemistry journal (i.e. Trends in Analytical Chemistry 7.487, Biosensor and Bioelectronics 7.476)

-**11** chapters in books

-**5** proceedings.

22 articles as first-author + **39** articles as corresponding author

H-index: 25, with 1761 total citations (Scopus, July 2017).

- **Editor** together with V. Scognamiglio, G. Rea and G. Palleschi of the book entitled "Biosensors for Sustainable Food-New Opportunities and Technical Challenges", Elsevier 2016, ISSN 9780444635808 (electronic)

The paper:

-D. Sordi, **F. Arduini** (*Corr. Author*), V. Conte, D. Moscone, G. Palleschi Real Time Monitoring of Hydrogen Peroxide Consumption in an Oxidation Reaction in Molecular Solvent and Ionic Liquids by Hydrogen Peroxide Electrochemical Sensor CHEMSUSCHEM (2011), 6; 792-796

was *Featured in scientific news media (ChemViewsMagazine)*

http://www.chemistryviews.org/details/ezone/1075341/Hydrogen_Peroxide_Electrochemical_Sensor.html

-F. Arduini, F. Ricci, C. S.Tuta, D. Moscone, A. Amine, G. Palleschi Detection of carbamic and organophosphorous pesticides in water samples using cholinesterase biosensor based on Prussian Blue modified screen printed electrode Analytica Chimica Acta (2006), 580;155-162

was *“Top 25 Hottest Article” in October-November 2006*

-S. Cinti, F. Arduini, G. Vellucci, I. Cacciotti, F. Nanni, D. Moscone Carbon black assisted tailoring of Prussian Blue nanoparticles to tune sensitivity detection limit towards H₂O₂ by using screen-printed electrode, Electrochemistry Communications (2014), 47; 63-66 was *Featured in scientific news media (Advances in Engineering, section nanotechnology; <http://advanceseng.com/nanotechnology-engineering/carbon-black-assisted-tailoring-of-prussian-blue-nanoparticles-to-tune-sensitivity-and-detection-limit-towards-h2o2-by-using-screen-printed-electrode/>)*

She is author of **91** among poster and oral presentations at National and International congress.

She is also a referee of international journals such as Analytical Chemistry, Biosensors and Bioelectronics, Analytica Chimica Acta, Talanta, Sensor and Actuators et al. (*more than 100 papers*).

National and Internationals Collaborations:

- Faculté des Sciences et Techniques de Mohammedia, Morocco;
- Biology Department, “Tor Vergata University”;
- National Institute of Applied Science and Technology, Tunisia;
- Laboratory of Quality Control and Process Monitoring, Department of Analytical Chemistry, University of Bucharest, Romania;
- Analytical Chemistry Department of Kazan Federal University, Russia;
- Departamento de Química Analítica, Universitat de les Illes Balears;
- Institute of Biomedical Chemistry, Russian Academy of Medical Sciences, Moscow, 119121 Russia;

- IC-CNR Istituto di Cristallografia, AdR1 Dipartimento Agroalimentare – Via Salaria Km 29.3 00015, Rome, Italy;
- Dipartimento di Chimica dell'Università di Modena e Reggio Emilia;
- Dipartimento di Medicina Sperimentale, Facoltà di Medicina, Seconda Università di Napoli;
- Consorzio Interuniversitario Biostrutture e Biosistemi “INBB”;
- Istituto di Genetica e Biofisica del CNR, Napoli;
- AeroSekur S.p.A;
- BASF-The Chemical Company , catalyst division.

Visiting Periods:

-June 2017 Visiting at Department of Digital Printing and Imaging Technology, Baumann Printing Research, Chemnitz University of Technology, Chemnitz, Germany.

-Feb 2015 Visiting post-doc researcher at Centre Suisse d'Electronique et de Microtechnique SA Landquart, Switzerland

-Feb 2006 Visiting PhD student at BIOMEM Laboratory, Universite de Perpignan, France

Projects:

The Dr Arduini was involved in the following projects:

- National project FISR 1999 “Development of sensor for pesticides detection in drinking and waste waters
- " European Project Leonardo RO/02/B/F/PP-141004
- Project with Aereosekur S.p.A. for development of biosensor for nerve agent detection
- European Project “Biocop” New Technologies to Screen Multiply Chemical Contaminants in Food, 2005-2010, FP VI, Food Quality and Safety
- National Project AFLARID MIPAAF (Ministero Politiche Agro-Alimentari e Forestali) DM 290/7303/04 2003-2007 Contamination reduction of aflatoxins in milk
- National project ACQUA-SENSE (MI01_00223) INDUSTRIA 2015
- National project Grape Health Wine (MI01_00308) INDUSTRIA 2015
- National project APTAMERI BW (CIG 5411905D46) Minister of Defence, Role:PI
- Mobility project Algeria-Italy 2016-2018 "Electrochemistry and Electrochemical cost-effective sensors for remediation and detection of heavy metals in polluted waters and soils" Role:PI
- Mobility project Germany-Italy MIUR-DAAD Joint Mobility Program 2016-2017 "Rapid detection of salmonella using a smart multiplexed impedimetric paper based sensor" Role:PI
- National Project PRIN 2016 "Securing and ensuring sustainable use of agriculture waste co- and by-products: an integrated analytical approach combining mass spectrometry with health effect-based biosensing" , Role: Participant .
- European Project ERANETMED2-72-328 NanoSWS 2017-2020 "Integrated nanotechnologies for sustainable sensing water and sanitation". Role: Coordinator

Invited Talks/Keynote Lectures

- November 2013 "Sensors and Biosensors based on screen-printed electrodes modified with nanomaterials", invited talk at Chemistry Department of University of Rome La Sapienza, Italy.
- September 2015 "Carbon black as successful carbonaceous nanomaterial modifier for screen-printed electrodes" (key note)
XXV Conference of Italian Analytical Division, Trieste, Italy.
- November 2015 "Miniaturised electrochemical sensors for environmental pollutant detection" invited talk at 1st International Caparica Conference on Pollutant Toxic Ions and Molecules, Portugal.
- May 2016 "Carbon black as successful cost-effective raw carbonaceous nanomaterial for electrochemical (bio)sensor development" invited plenary at "IX All-Russian Conference on electrochemical methods of analysis with the Youth Scientific School and international participation «EMA-2016»" May 29 - June 3, 2016, Ekaterinburg, Russia
- May 2017 "Paper-based devices for the detection of chemical warfare agents - Invited Key Note at "2nd International Conference CBRNE - Research & Innovation" May 29th-June 1st, Lyon, France.

Teaching activity

- 09/08 – 09/10 Analytical Chemistry: 2008-2010 (2 Academic years) Biology Bachelor degree of University of Rome, Tor Vergata (average enrolment: 200 students)
- 09/09 – 06/17 Analytical Chemistry II: 2009-2017 (8 Academic years) Chemistry Bachelor degree of University of Rome, Tor Vergata (average enrolment: 70 students)

09/09 – 06/17 Analytical Chemistry II: 2009-2017 (8 Academic years) Applied Chemistry Bachelor degree of University of Rome, Tor Vergata (average enrolment: 70 students)

09/09– 09/10 Laboratory of Environmental Analytical Chemistry: (1 Academic years) Chemistry Bachelor degree of University of Rome, Tor Vergata (average enrolment: 70 students)

09/10–09/15 Environmental Analytical Chemistry: 2010-2015 (5 Academic years) Applied Chemistry Bachelor degree of University of Rome Tor Vergata (average enrolment: 20 students)

09/15-09/17 Analytical Chemistry (1 Academic year) Master Degree in Medical Biotechnology

List of publications:

Articles:

1. S. Cinti, B. De Lellis, D. Moscone, **F. Arduini (Co-Corr. Author)**
Sustainable Monitoring of Zn(II) in Biological Fluids using Office Paper.
Sensors and Actuators B: Chemical, 2017, 253, 1199-1206
2. N. Colozza, M.F. Gravina, L. Amendola, M. Rosati, D.E Akretche, D. Moscone, **F. Arduini (Corr. Author)**
A miniaturized bismuth-based sensor to evaluate the marine organism *Styela plicata* bioremediation capacity toward heavy metal polluted seawater.
Science of The Total Environment, 2017, 584-585, 692-700
3. **F. Arduini (Corr. Author)**, M. Forchielli, V. Scognamiglio, K.A. Nikolaevna, D. Moscone
Organophosphorous Pesticide Detection in Olive Oil by Using a Miniaturized, Easy-to-Use, and Cost-Effective Biosensor Combined with QuEChERS for Sample Clean-Up
Sensors, 2017, 17, 34
4. **F. Arduini (Corr. Author)**, S. Cinti, V. Scognamiglio, D. Moscone, G. Palleschi, G. How cutting-edge technologies impact the design of electrochemical (bio) sensors for environmental analysis. A review.
Analytica Chimica Acta, 2017, 959, 15-42.

5. S. Cinti, M. Basso, D. Moscone, **F. Arduini (Co-Corr. Author)**
A paper-based nanomodified electrochemical biosensor for ethanol detection in beers.
Analytica Chimica Acta, 2017, 960, 123-130
6. S. Cinti, C. Minotti, D. Moscone, G. Palleschi, **F. Arduini (Co-Corr. Author)**
Fully integrated ready-to-use paper-based electrochemical biosensor to detect nerve agents.
Biosensors and Bioelectronics, 2017, 93, 46-51
7. S. Cinti, **F. Arduini (Corr. Author)**
Graphene-based screen-printed electrochemical (bio)sensors and their applications: Efforts and criticisms (*review*).
Biosensors and Bioelectronics, 2017, 89, 107-122
8. D. Moscone, G. Volpe, **F. Arduini**, L. Micheli, Rapid electrochemical screening methods for food safety and quality.
ACTA IMEKO, 2016, 5, 45-50
9. **F. Arduini**, L. Micheli, D. Moscone, G. Palleschi, S. Piermarini, F. Ricci, G. Volpe,
Electrochemical biosensors based on nanomodified screen-printed electrodes: Recent applications in clinical analysis (*review*).
TrAC Trends in Analytical Chemistry, 79 (2016) 114-126
10. D. Talarico, **F. Arduini (Corr. Author)**, A. Amine, I. Cacciotti, D. Moscone, G. Palleschi
Screen-printed electrode modified with carbon black nanoparticles and chitosan: a novel platform for acetylcholinesterase biosensor development
Analytical and Bioanalytical Chemistry, 408 (2016) 7299-7309
11. **F. Arduini (Corr. Author)**, S. Cinti, V. Scognamiglio, D. Moscone
Nanomaterials in electrochemical biosensors for pesticide detection: advances and challenges in food analysis (*review*)
Microchimica Acta, 183 (2016) 2093-2083

12. S. Cinti, D. Talarico, G. Palleschi, D. Moscone, **F. Arduini (Corr. Author)**.
Novel reagentless paper-based screen-printed electrochemical sensor to detect phosphate.
Analytica Chimica Acta, 919 (2016) 78-84
13. **F. Arduini (Corr. Author)**, D. Neagu, V. Paglierini, V. Scognamiglio, M.A. Leonardis, E. Gatto, A. Amine, G. Palleschi, D. Moscone
Rapid and label-free detection of ochratoxin A and aflatoxin B₁ using an optical portable instrument
Talanta 150 (2016) 440–448
14. A. Amine, **F. Arduini**, D. Moscone, G. Palleschi
Recent advances in biosensors based on enzyme inhibition (*review*)
Biosensors and Bioelectronics 76 (2016) 180–194
15. M.S. I. Rabie, A.A. Lahcen, F. Arduini, A. Ourari, A. Amine
Electrochemical Characterization of Carbon Solid like Paste Electrode Assembled Using Different Carbon Nanoparticles
Electroanalysis (2016), in press, DOI: 10.1002/elan.201500637
16. S. Cinti, F. Santella, D. Moscone, **F. Arduini (Corr. Author)**
Hg²⁺ detection using a disposable and miniaturized screen-printed electrode modified with nanocomposite carbon black and gold nanoparticles
Environmental Science and Pollution Research, 23 (2016) 8192-8199
17. S. Cinti, D. Neagu, M. Carbone, I. Cacciotti, D. Moscone, **F. Arduini (Corr. Author)**
Novel carbon black-cobalt phthalocyanine nanocomposite as sensing platform to detect organophosphorus pollutants at screen-printed electrode
Electrochimica Acta 188 (2016) 574–581
18. S.Cinti, **F. Arduini (Corr. Author)**, M. Carbone, L. Sansone, I. Cacciotti, D. Moscone, G. Palleschi
Screen-Printed Electrodes Modified with Carbon Nanomaterials: A Comparison among Carbon Black, Carbon Nanotubes and Graphene
Electroanalysis 27 (2015) 2230-2238
19. D. Talarico, S. Cinti, **F. Arduini (Corr. Author)**, D. Moscone, G. Palleschi
Phosphate Detection through a Cost-Effective Carbon Black Nanoparticle-Modified Screen-Printed Electrode Embedded in a Continuous Flow System
Environ. Sci. Technol. 49 (2015) 7934–7939

20. D. Talarico, **F. Arduini** (*Corr. Author*), A. Costantino, M. Del Carlo, D. Compagnone D. Moscone, G. Palleschi
Carbon black as successful screen-printed electrode modifier for phenolic compound detection
Electrochemistry Communications 60 (2015) 78–82
21. S. Cinti, **F. Arduini**, D. Moscone, G. Palleschi, L. Gonzalez, A. Killard, Cholesterol biosensor based on inkjet-printed Prussian blue nanoparticle-modified screen-printed electrodes
Sensors and Actuators B 221 (2015) 187–190
22. **F. Arduini** (*Corr. Author*), D. Neagu, V. Scognamiglio, S. Patarino, D. Moscone, G. Palleschi
Automatable flow system for paraoxon detection with an embedded screen-printed electrode tailored with Butyrylcholinesterase and Prussian Blue nanoparticles
Chemosensors 3 (2015) 129-145
23. C. Zanardi, E. Ferrari, L. Pigani, **F. Arduini**, R. Seeber
Development of an electrochemical sensor for NADH determination based on a caffeic acid redox mediator supported on carbon black
Chemosensors 3 (2015) 118-128
24. D. Talarico, **F. Arduini** (*Corr. Author*), A. Amine, D. Moscone, G. Palleschi
Screen-printed electrode modified with carbon black nanoparticles for phosphate detection by measuring electroactive phosphomolybdate complex
Talanta 141 (2015) 267-272.
25. **F. Arduini**, C. Zanardi, S. Cinti, F. Terzi, D. Moscone, G. Palleschi, R. Seeber
Effective electrochemical sensor based on screen-printed electrodes modified with a carbon black-Au nanoparticles composite
Sensors and Actuators B 212 (2015) 536-543
26. **F. Arduini** (*Corr. Author*), V. Scognamiglio, C. Covaia, A. Amine, D. Moscone, G. Palleschi
A choline oxidase amperometric bioassat for the detection of mustard agents based on screen-printed electrode modified with Prussian Blue nanoparticles
Sensors (2015) 15; 4353-4367
27. **F. Arduini** (*Corr. Author*), M. Forchielli, A. Amine, D. Neagu, I. Cacciotti, F. Nanni, D. Moscone, G. Palleschi
Screen-printed biosensor modified with carbon black nanoparticles for the determination of paraoxon based on the inhibition of butyrylcholinesterase
Microchimica Acta 182 (2015) 643–651
28. S.Cinti, **F. Arduini**, D. Moscone, G. Palleschi, A.T. Killard
Development of a Hydrogen Peroxide Sensor Based on Screen-Printed Electrodes Modified with Inkjet-Printed Prussian Blue Nanoparticles
Sensors 14 (2014) 14222-14234

29. S. Cinti, **F. Arduini (Corr. Author)**, G. Vellucci, I. Cacciotti, F. Nanni, D. Moscone
Carbon black assisted tailoring of Prussian Blue nanoparticles to tune sensitivity detection limit towards H₂O₂ by using screen-printed electrode
Electrochemistry Communications 47 (2014) 63-66.
30. V. Scognamiglio, **F. Arduini**, G. Palleschi, G. Rea
Biosensing technology for a sustainable food safety (*review*)
Trends in Analytical Chemistry 62 (2014) 1-10
31. A. Amine, L. El Harrad, **F. Arduini**, D. Moscone, G. Palleschi
Analytical aspects of enzyme reversible inhibition
Talanta 118 (2014) 368-374
32. D. Neagu, **F. Arduini (Corr. Author)**, J. Calvo Quintana, P. Di Cori, C. Forni, D. Moscone
Disposable Electrochemical Sensor to Evaluate the Phytoremediation of the Aquatic Plant *Lemna minor* L. toward Pb²⁺ and/or Cd²⁺
Environ. Sci. Technol. 48 (2014) 7477-748
33. S. Cinti, S. Politi, D. Moscone, G. Palleschi, **F. Arduini (Corr. Author)**,
Stripping Analysis of As(III) by Means of Screen-Printed Electrodes Modified with Gold Nanoparticles and Carbon Black Nanocomposite
Electroanalysis 26 (2014) 931-939
34. M. Portaccio, D. Di Tuoro, **F. Arduini**, D. Moscone, M. Cammarota, DG Mita, M. Lepore
Laccase Biosensor based on screen-printed electrode modified with thionine-carbon black nano composite for Bisphenol A detection.
Electrochimica Acta 109 (2013) 340-347.
35. **F. Arduini (Corr. Author)**, S. Guidone, A. Amine, G. Palleschi, D. Moscone
Acetylcholinesterase biosensor based on self-assembled monolayer-modified gold-screen printed electrodes for organophosphorus insecticide detection.
Sensors and Actuators B 179 (2013) 201-208
36. C. Henriquez, L.M. Laglera, M.J. Alpizar, J. Calvo, **F. Arduini**, V. Cerdà
Cadmium determination in natural water samples with an automatic multisyringe flow injection system coupled to a flow-through screen printed electrode.
Talanta 96 (2012) 140-146.
37. E.V. Suprun, **F. Arduini**, D. Moscone, G. Palleschi, V.V. Shumyantseva, A.I. Archakov
Direct Electrochemistry of Heme Proteins on Electrodes Modified with Didodecyldimethyl Ammonium Bromide and Carbon Black
Electroanalysis 24 (2012) 1923-1931

38. **F. Arduini (Corr. Author)**, F. Di Nardo, A. Amine, L. Micheli, G. Palleschi, D. Moscone
Carbon black-modified screen-printed electrodes as electroanalytical tools.
Electroanalysis 24 (2012) 743-751
39. J. Calvo Quintana, **F. Arduini (Corr. Author)**, A. Amine, K. Van Velzen, G. Palleschi, D. Moscone
Part two: Analytical optimisation of a procedure for lead detection in milk by means of bismuth-modified screen-printed electrodes.
Analytica Chimica Acta 736 (2012) 92-99
40. **F. Arduini (Corr. Author)**, D. Neagu, S. Dall'Oglio, D. Moscone, G. Palleschi
Towards a Portable Prototype Based on Electrochemical Cholinesterase Biosensor to be Assembled to Soldier Overall for Nerve Agent Detection.
Electroanalysis 24 (2012) 581-590
41. V. Scognamiglio, I. Pezzotti, G. Pezzotti, J. Cano, I. Manfredonia, K. Buonasera, **F. Arduini**, D. Moscone, G. Palleschi, M.T. Giardi
Towards an integrated biosensor array for simultaneous and rapid multi-analysis of endocrine disrupting chemicals
Analytica Chimica Acta 751 (2012) 161-170
42. A.N. Ivanov, R.R. Younusova, G.A. Evtugyn, **F. Arduini**, D. Moscone, G. Palleschi
Acetylcholinesterase biosensor based on single-walled carbon nanotubes – Co phthalocyanine for organophosphorus pesticides detection.
Talanta 56 (2011) 4209-4215
43. D. Di Tuoro, M. Portaccio, M. Lepore, **F. Arduini**, D. Moscone, U. Bencivenga, D.G. Mita
An acetylcholinesterase biosensor for determination of low concentrations of Paraoxon and Dichlorvos
New Biotechnology 29 (2011) 132-138
44. J. Calvo Quintana, **F. Arduini (Corr. Author)**, A. Amine, F. Punzo, G. Li Destri, C. Bianchini, D. Zane, A. Curulli, G. Palleschi, D. Moscone
Part I: A comparative study of bismuth-modified screen-printed electrodes for lead detection.
Analytica Chimica Acta 707 (2011) 171-177
45. D. Sordi, **F. Arduini (Corr. Author)**, V. Conte, D. Moscone, G. Palleschi
Real Time Monitoring of Hydrogen Peroxide Consumption in an Oxidation Reaction in Molecular Solvent and Ionic Liquids by Hydrogen Peroxide Electrochemical Sensor.
CHEMSUSCHEM 6 (2011) 792-796.
46. **F. Arduini (Corr. Author)**, C. Majorani, A. Amine, D. Moscone, G. Palleschi
Hg²⁺ detection by measuring thiol groups with a highly sensitive screen-printed electrode modified with a nanostructured carbon black film.

47. **F. Arduini** (*Corr. Author*), J. Quintana Calvo, A. Amine, G. Palleschi, D. Moscone
Bismuth-modified electrodes for lead detection (*review*).
Trends in analytical chemistry 29 (2010) 1295-1304
48. **F. Arduini** (*Corr. Author*), A. Amine, C. Majorani, F. Di giorgio, D. De felicis, F. Cataldo, D. Moscone, G. Palleschi.
High performance electrochemical sensor based on modified screen-printed electrodes with cost-effective dispersion of nanostructured carbon black.
Electrochemistry Communications 12 (2010) 346-350.
49. **F. Arduini** (*Corr. Author*), A. Amine, D. Moscone, G. Palleschi.
Biosensors based on cholinesterase inhibition for pesticides, nerve agents and aflatoxin B1 detection (*review*).
Microchimica Acta 170 (2010) 193-214.
50. **F. Arduini** (*Corr. Author*), F. Di Giorgio, A. Amine, F. Cataldo, D. Moscone, G. Palleschi.
Electroanalytical characterisation of carbon black nanomaterial paste electrode. Development of highly sensitive tyrosinase biosensor for catechol detection.
Analytical Letters 43 (2010) 1688-1702.
51. M. Portaccio, D. Di Tuoro, **F. Arduini**, M. Lepore, D.G. Mita, N. Danio, L. Mita, D. Moscone
A thionine-modified carbon paste amperometric biosensor for catechol and bisphenol A determination.
Biosensors & Bioelectronics 25 (2010) 2003-2008.
52. **F. Arduini** (*Corr. Author*), A. Amine, D. Moscone, G. Palleschi.
Reversible enzyme inhibition-based biosensors: applications and analytical improvement through diagnostic inhibition (*review*).
Analytical Letters 42 (2009) 1258-1293
53. M. L. Antonelli, **F. Arduini** (*Corr. Author*), A. Lagana', D. Moscone, V. Siliprandi.
Construction, assembling and application of a trehalase–GOD enzyme electrode system.
Biosensors & Bioelectronics 24 (2009) 1382-1388.
54. Inen Rejeb, **F. Arduini** (*Corr. Author*), A. Arvinte, A. Amine, M. Gargouri, L. Micheli, C. Bala, D. Moscone, G. Palleschi
Development of a bio-electrochemical assay for AFB1 detection in olive oil.
Biosensors & Bioelectronics 24 (2009) 1962-1968.
55. **F. Arduini** (*Corr. Author*), A. Cassisi, A. Amine, F. Ricci, D. Moscone, G. Palleschi
Electrocatalytic oxidation of thiocholine at chemically modified cobalt hexacyanoferrate screen-printed electrodes.
Journal of Electroanalytical Chemistry 626 (2009) 66-74.

56. D.G. Mita, A. Attanasio, **F. Arduini**, N. Diano, V. Grano, U. Bencivenga, S. Rossi, A. Amine, D. Moscone
Enzymatic determination of BPA by means of tyrosinase immobilized on different carbon carriers
Biosensors & Bioelectronics 23 (2007) 60-65.
57. **F. Arduini** (*Corr. Author*), F. Ricci, A. Amine, D. Moscone, G. Palleschi
Fast, sensitive and cost-effective detection of nerve agents in the gas phase using a portable instrument and an electrochemical biosensor
Analytical and Bioanalytical Chemistry 388 (2007) 1049-1057
58. A. Arvinte, F. Valentini, A. Radoi, **F. Arduini**, E. Tamburri, L. Rotariu, G. Palleschi, C. Bala
The NADH Electrochemical Detection Performed at Carbon Nanofibers Modified Carbon Electrode
Electroanalysis 19 (2007) 1455-1459.
59. **F. Arduini**, I. Errico, A. Amine, L. Micheli, G. Palleschi, D. Moscone
Enzymatic spectrophotometric method for aflatoxin B detection based on acetylcholinesterase inhibition
Analytical Chemistry 79 (2007) 3409-3415.
60. I. Ben Rejeb, **F. Arduini**, A. Amine, M. Gargouri, G. Palleschi
Amperometric biosensor based on Prussian Blue-modified screen printed electrode for lipase activity and triacylglycerol determination
Analytica Chimica Acta 594 (2007) 1-8.
61. F. Ricci, **F. Arduini**, C. S. Tuta, U. Sozzo, D. Moscone, A. Amine, G. Palleschi.
Glutathione amperometric detection based on a thiol-disulfide exchange reaction.
Analytica Chimica Acta 558 (2006) 164-170.
62. **F. Arduini**, F. Ricci, C. S. Tuta, D. Moscone, A. Amine, G. Palleschi
Detection of carbamic and organophosphorous pesticides in water samples using cholinesterase biosensor based on Prussian Blue modified screen printed electrode
Analytica Chimica Acta 580 (2006) 155-162.
63. **F. Arduini**, F. Ricci, I. Bourais, A. Amine, D. Moscone, G. Palleschi.
Extraction and Detection of Pesticides by Cholinesterase Inhibition in a Two-phase System: a Strategy to Avoid Heavy Metal Interference.
Analytical Letters 38 (2005) 1703-1719.
64. F. Ricci, **F. Arduini**, A. Amine, D. Moscone, G. Palleschi
Characterisation of Prussian Blue modified screen printed electrodes for thiol detection.
Journal of Electroanalytical Chemistry 563 (2004) 229-23

Chapters:

1. **F. Arduini**, S. Cinti, V. Scognamiglio, D. Moscone.
Paper-Based Electrochemical Devices in Biomedical Field: Recent Advances and Perspectives in:
Comprehensive Analytical Chemistry: Past, Present and Future Challenges of Biosensors and Bioanalytical Tools in Analytical Chemistry: A Tribute to Professor Marco Mascini, DOI: 10.1016/bs.coac.2017.06.005, Elsevier, 2017
2. A. Antonacci, **F. Arduini**, D. Moscone, G. Palleschi, V. Scognamiglio
Commercial available (bio)sensors in the agrifood sector in:
Biosensors for Sustainable Food-New Opportunities and Technical Challenges, Elsevier 2016, ISSN 9780444635808 (electronic)
3. **F. Arduini**, V. Scognamiglio, D. Moscone, G. Palleschi
Electrochemical (bio)sensors for chemical warfare agents in:
Biosensors for Security and Bioterrorism Applications, Springer 2016, ISSN 2363-9466 (electronic)
4. C. Zanardi, L. Pigani, R. Seeber, F. Terzi, **F. Arduini**, S. Cinti, D. Moscone, G. Palleschi.
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5. **F. Arduini**, A. Amine (2014)
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6. **F. Arduini**, G. Palleschi (2013)
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8. D. Moscone, **F. Arduini**, A. Amine (2011).
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9. **F. Arduini**, A. Amine, D. Moscone, G. Palleschi (2010).
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10. D.G. Mita ,A. Attanasio, N. Diano, V. Grano, U. Bencivenga, S. Rossi, P. Canciglia, L. Mita, M. Portaccio, **F. Arduini**, A. Amine, D. Moscone (2007).
Bioremediation and biodetermination of bisphenol A (BPA) in aqueous solutions.
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11. **F. Arduini**, G. Palleschi (2005).
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- 1) D. Compagnone, M. Del Carlo, D. Innocenzi, F. Arduini, L. Agui, V. Serafin (2015)
Carbon Black modified glassy carbon electrode for the detection of antioxidants compounds,
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and sensitive sensor for phosphate detection
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- 3) D. Moscone, F. Arduini (2010).
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aflatoxins detection. In: PHYSICAL CHEMISTRY 2010, BEOGRAD: Society of physical
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- 4) F. Arduini, J. Quintana Calvo, A. Amine, G. Palleschi, D. Moscone (2010).

Disposable electrochemical sensors for heavy metals detection. in: PHYSICAL CHEMISTRY 2010, BEOGRAD: Society of physical chemists of Serbia, ISBN/ISSN: 978-86-82475-17-0

- 5) F. Arduini, F. Ricci, G. Palleschi, A. Amine, D. Moscone (2005)
Modified screen printed electrodes for glutathione detection. In: SENSORS AND MISCROSYSTEMS. Ed: Di Natale, D'Amico, Martinelli, Carotta, Guidi, ISBN/ISSN: 981-256-386-5

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- 1) F. Ricci, F. Arduini, D. Moscone, G. Palleschi, A. Amine
Thiocholine mediated oxidation at Prussian Blue modified electrodes for pesticide and heavy metals detection (poster)
International Workshop on "Biosensors for food safety and environmental monitoring", Marrakech, Marocco, 9-11, 10, 2003
- 2) F. Ricci, F. Arduini, A. Amine, U. Sozzo, D. Moscone, G. Palleschi.
Modified Screen Printed Electrodes for glutathione detection (oral presentation)
Euroanalysis XIII, "European conference on Analytical Chemistry", Salamanca, Spagna, 5-10, 9, 2004.
- 3) F. Arduini, F. Ricci, I. Bourais, A. Amine, D. Moscone, G. Palleschi.
Extraction and detection of pesticides in organic solvent by cholinesterase inhibition (poster)
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- 4) A.Amine, H. Mohammadi, F. Arduini, F. Ricci, D. Moscone, G. Palleschi.
Extraction of enzyme inhibitors using a mixture of organic solvent and aqueous solution and their detection with electrochemical biosensors (poster)
8th World Congress on Biosensors, Granada, Spain, 24-26, 5,2004.
- 5) F. Ricci, F. Arduini, U. Sozzo, D. Moscone, A. Amine, G. Palleschi
Kinetic aspect of the disulfide interchange reaction for glutathione amperometric detection (poster)
8th International Symposium on Kinetics in Analytical Chemistry, Rome, Italy, 8-10 , 09,2004.
- 6) F. Arduini, F. Ricci, A. Amine, D. Moscone, G. Palleschi.
Enzymatic kinetics in a biosensing for pesticide detection (poster)
8th International Symposium on Kinetics in Analytical Chemistry, Rome, Italy, 8-10 Luglio 2004.
- 7) F. Ricci, F. Arduini, A. Amine, G. Palleschi, D. Moscone.
Thiols mediated oxidation at Prussian Blue modified screen printed electrodes (poster)

XVII International Symposium on "Bioelectrochemistry and Bioenergetics", Florence, Italy, 19-24, 06,2003.

8) F.Arduini, F.Ricci, A.Amine, D.Moscone, G.Palleschi

A disposable biosensor for pesticides detection: development and application in waste water samples (oral presentation)

Second International Workshop on "Biosensors for Food Safety and Environmental Monitoring, Agadir, Marocco, 10-12,11, 2005

9)G.Palleschi, D.Moscone, L.Micheli, G.Volpe, F.Ricci, F.Arduini, A.Radoi

Chemical sensor, biosensor and immunosensors for clinical, food, and environmental control (oral presentation)

SPQ-Analitica 05 Divisao de Quimica Analitica ,Sociedade Portuguesa de Quimica, Coimbra, Portugal, 27-28, 10, 2005

10) G.Palleschi, D.Moscone, L.Micheli, S.Piermarini, G.Volpe, F.Ricci, F.Arduini, A.Radoi

Analytical application of chemical sensors, biosensors and immunosensors

(oral presentation)

International Congress on Analytical Sciences ICAS-2006, Mosca, Russia, 25-30,06, 2006

11) F.Arduini, F.Ricci, A.Amine, D.Moscone, G.Palleschi

Analytical Kinetic aspects of nerve agent detection based on cholinesterase inhibition (oral presentation)

9th International Symposium on Kinetics in Analytical Chemistry, Marrakech, Morocco, 2-4,11, 2006.

12) F.Arduini, A.Cassisi, A.Amine, D.Moscone, G.Palleschi

Electrokinetic investigation of cobalt hexacyanoferrate screen printed electrode as new probe for pesticides detection (poster)

9th International Symposium on Kinetics in Analytical Chemistry, Marrakech, Morocco, 2-4 ,11, 2006.

13)F.Arduini, C.Majorani, A.Amine, D.Moscone, G.Palleschi

Development of a new method for mercury(II) detection using screen printed electrodes modified with carbon black (poster)

Third international workshop on biosensors for food safety and environmental monitoring Fez, Morocco 18-20 Ottobre 2007

14) F.Arduini, A.Amine, L. Micheli, G.Palleschi, D. Moscone

New and rapid assay for aflatoxin B detection based on acetylcholinesterase inhibition (poster)

XII International IUPAC symposium on phycotoxin and mycotoxins, Istanbul, Turkey, 21-25 ,05,2007

15) F.Arduini, F.Ricci, A.Amine, D.Moscone, G.Palleschi

Fast and sensitive detection of nerve agents in the gas phase using an electrochemical biosensor (oral presentation)

Euroanalysis XVI, "European conference on Analytical Chemistry", Antwerp, Belgium 9 - 14,09, 2007

16) F.Arduini, F. Di Giorgio, A.Amine, D.Moscone, G.Palleschi

Development of a new sensor based on screen printed electrode modified with carbon black (poster)

Euroanalysis XVI, "European conference on Analytical Chemistry", Antwerp, Belgium 9 - 14,2007

17) A. Amine, A. Adil, F.Arduini, D. Moscone, G. Palleschi

Determination of lead in milk by anodic stripping voltammetry (poster)

Euroanalysis XVI, "European conference on Analytical Chemistry", Antwerp, Belgium 9 - 14,09,2007

18) F. Arduini, I. Ben Rejeb , A. Amine , A. Arvinte, M. Gargouri , D. Moscone, G. Palleschi

Development of electrochemical biosensor for AFB1 detection (The tenth world congress on biosensors, Biosensor 2008, Shanghai ,Cina, 14-16, 05,2008

19) M.L. Antonelli, F. Arduini. A. Laganà, D. Moscone, V. Siliprandi

Construction, assembling and applications of a trehalase-god enzyme electrode system (poster)

The tenth world congress on biosensors, Biosensor 2008, Shanghai ,China, 14-16,05, 2008

20) G. Palleschi A. Amine, F. Arduini, F. Caprio, D. Moscone, F. Ricci, G. Volpe

Applications of electrochemical probes in clinical, food and environmental analysis (oral presentation)

The 59th Annual Meeting of the International Society of Electrochemistry, Seville, Spain, 7-12, 09, 2008

21) F. Arduini, D. Sordi, V. Conte, D. Moscone, G. Palleschi

A simple electrochemical system for monitoring the organic oxidation reactions (poster)

Euroanalysis XVII, "European conference on Analytical Chemistry", Innsbruck, Austria, 6-10, 09, 2009

22) F. Arduini, A. Amine, C. Majorani, F. Di Giorgio, F. Cataldo, D. Moscone, G. Palleschi

Carbon black as nanostructured electrode material for the construction of sensors and biosensors (poster)

Euroanalysis XVII, "European conference on Analytical Chemistry", Innsbruck, Austria, 6-10, 09, 2009

23) C. Henríquez, M.J. Alpizar, J. Calvo, F. Arduini, V.Cerdà

On-line stripping voltammetry determination of trace metals in sea water at flow-through bismuth-film screen printed electrode by multi- syringe flow injection analysis (poster)

Euroanalysis XVII, "European conference on Analytical Chemistry", Innsbruck, Austria, 6-10, 09, 2009

24) C. Henríquez, M. J. Alpizar, V. Cerdà, J. Calvo, F. Arduini

Construction of a new flow-through cell for screen printed electrodes (poster)
Flow Analysis XI, Mallorca, Spain, 14-18, 09,2009

25) C. Henríquez, M.J. Alpízar, J. Calvo, F. Arduini, V. Cerdà
Automated flow voltammetric stripping technique for trace metals analysis in sea waters (oral presentation)
16th International Conference on Flow Injection Analysis, Pattaya, Thailand, 25-30, 04, 2010

26) F. Arduini, J. Quintana Calvo, A. Amine, G. Palleschi, D. Moscone
Lead detection in milk by means of disposable electrochemical sensor (oral presentation)
2nd workshop on specific methods for food safety and quality, Belgrade, Serbia, 21, 09, 2010

27) F. Arduini, J. Quintana Calvo, A. Amine, G. Palleschi, D. Moscone
Disposable electrochemical sensor for heavy metals detection (poster)
10th international conference on fundamental and applied aspects of physical chemistry, Belgrade, Serbia, 21-24, 09,2010

28) D.Moscone, F. Arduini
Biosensor and bioassay based on cholinesterase inhibition for pesticides, nerve agents and aflatoxins detection (oral presentation)
10th international conference on fundamental and applied aspects of physical chemistry, Belgrade, Serbia, 21-24, 09, 2010

29) L. Micheli, F. Arduini, D. Neagu, G. Palleschi, D. Moscone
Development of innovative analytical methods for ochratoxin A determination in wine (poster)
6th conference the world mycotoxin forum, Noordwijkerhout, Holland, 8-10, 11, 2010

30) L. Micheli, F. Arduini, D. Neagu, G. Palleschi, D. Moscone
New analytical approaches for aflatoxin B1 determination in food (poster)
6th conference the world mycotoxin forum, Noordwijkerhout, Holland, 8-10, 11, 2010

31) D.Neagu, F. Arduini, G. Palleschi, D. Moscone
A simple and fast optical analytical method to detect simultaneously aflatoxin B and ochratoxin A (poster)
Euroanalysis 2011, Belgrade, Serbia 11-15, 09, 2011

32) F.Arduini
Electrochemical sensors and biosensors for heavy metal and nerve agent detection meeting (oral presentation)
NATO SNOGEHOLM CASTLE, Sweden, 1-7, 07, 2011

33) F. Arduini, A. Amine, D. Neagu, R. Moretti, D. Talarico, D. Moscone, G. Palleschi
Cholinesterase biosensor for insecticide detection based on screen-printed electrodes modified with nanostructured carbon black (oral presentation)

Sixth international workshop on biosensors for food safety and environmental monitoring
Essaouira, Morocco 3-5, 10, 2013

34) F. Arduini, D. Neagu, A. Amine, D. Moscone, G. Palleschi
Miniaturised printed biosensors for chemical warfare agents (oral presentation)
1st International Scientific Conference. Antibes - Juan-les-Pins, France. March 16-18, 2015

35) F. Arduini, V. Paglierini, D. Neagu, S. Pascale, E. Delibato, E. Pucci, G. Palleschi, D. Moscone
Miniaturized and label free impedimetric immunosensor for *Salmonella typhimurium* detection
(oral presentation)
8th International Workshop on Impedance Spectroscopy September 23-25 2015, Chemnitz,
Germany

36) F. Arduini
Screen-printed electrodes modified with nanomaterials for pollutant detection (oral presentation)
16th International Workshop on Nanoscience and Nanotechnology 2015 28th September- 2nd
October 2015, Rome, Italy

37) S. Cinti, F. Arduini, Z. Zahid, G. Palleschi, D. Moscone (oral presentation)
Fully integrated ready-to-use paper-based electrochemical biosensor to detect nerve agents,
Biosensors 2016, Gothenburg, Sweden, May 25-27, 2016

38) D. Neagu, V. Mazzaracchio, A. Porchetta, D. Moscone, G. Palleschi, A. Pomponi, G. Faggioni,
F. Lista, F. Arduini (poster presentation)
Label free impedimetric aptasensor for *Bacillus anthracis* spores
Biosensors 2016, Gothenburg, Sweden, May 25-27, 2016

39) F. Arduini (plenary presentation)
Carbon black as successful cost-effective raw carbonaceous nanomaterial for electrochemical
(bio)sensor development
IX All-Russian Conference on electrochemical methods of analysis, May 29 - June 3, 2016
Ekaterinburg, Russia

40) F. Arduini, D. Neagu, V. Mazzaracchio, A. Porchetta, D. Moscone, G. Palleschi, A. Pomponi,
G. Faggioni, F. Lista (oral presentation)
Novel impedimetric aptasensor for *Bacillus anthracis* spore detection
9th International Workshop on Impedance Spectroscopy September 26-28 2016, Chemnitz,
Germany

Presentations at national congress:

1) F. Arduini, F. Ricci, F. Cataldo, G. Palleschi

Verso la costruzione di uno strumento portatile per la misura amperometrica di agenti neurotossici (oral presentation)

II Simposio sulle Tecnologie Avanzate, Rome, 23-24, 06, 2005.

2) F. Arduini, F. Ricci, I. Bourais, A. Amine, D. Moscone, G. Palleschi (poster)

Detection of pesticide in organic solvent by cholinesterase inhibition to avoid heavy metals interference.

XVIII Congresso Nazionale di Chimica Analitica, Parma, 19-23, 09, 2004.

3) F. Arduini, F. Ricci, A. Amine, D. Moscone, G. Palleschi Determinazione di pesticidi organofosforici e carbammici mediante un biosensore monouso (poster)

VI Convegno nazionale Istituto Nazionale Biostrutture e Biosistemi Napoli, 4-6, 11, 2004.

4) F. Arduini, F. Ricci, D. Moscone, G. Palleschi

Amperometric cholinesterase biosensor for pesticide detection (poster)

AISEM - Associazione Italiana Sensori e Microsistemi X Conferenza Annuale Firenze, 15-17, 02, 2005

5) H. Mohammadi, A. Amine, F. Arduini, D. Moscone, G. Palleschi

Determination of Lead in Milk by Anodic Stripping Voltammetry with Mercury thin film: Assessment of the influence of sample pretreatment (poster)

XIX Congresso nazionale di Chimica Analitica Pula (Ca), 11-15, 09, 2005.

6) I. Errico, F. Arduini, A. Amine, L. Micheli, G. Palleschi, D. Moscone

Sviluppo di un nuovo metodo di screening per l'aflatossina B1 basato sull'inibizione enzimatica (oral presentation)

XIX Congresso nazionale di Chimica Analitica Pula (Ca), 11-15, 09, 2005.

7) F. Arduini, F. Ricci, C.S. Tuta, A. Amine, D. Moscone, G. Palleschi

Determinazione di pesticidi organofosforici e carbammici in campioni reali mediante un biosensore monouso XIX (poster)

Congresso nazionale di Chimica Analitica, Pula (Ca), 11-15, 09, 2005.

8) A. Attanasio, F. Arduini, A. Amine, G. Mita, D. Moscone

Sviluppo di un biosensore elettrochimico per la misura del BPA (poster)

XXII Congresso Nazionale della Società Chimica Italiana Firenze, 10-15, 09, 2006.

9) F. Arduini, F. Ricci, A. Amine, D. Moscone, G. Palleschi

Misure di Sarin in fase gassosa con biosensori stabili e monouso (oral presentation)

XXII Congresso Nazionale della Società Chimica Italiana Firenze, 10-15, 09, 2006.

- 10) F. Arduini, A. Cassisi, F. Ricci, A. Amine, D. Moscone, G. Palleschi
Caratterizzazione di elettrodi screen-printed modificati con esacianoferrato di cobalto per la misura della tiocolina (poster)
XXII Congresso Nazionale della Società Chimica Italiana Firenze, 10-15, 09, 2006.
- 11) F. Arduini, L. Micheli, A. Amine, J.L. Marty, D. Moscone, G. Palleschi
Sviluppo di un biosensore per la determinazione dell'AFB1 (poster)
Congresso Nazionale della Società Chimica Italiana Firenze, 10-15,09, 2006.
- 12) F.Arduini, F. Di Giorgio, C. Majorani, A. Amine, D. Moscone, G. Palleschi
Sviluppo di nuovi sensori basati su elettrodi stampati monouso modificati con carbon black (poster)
XX Congresso Nazionale di Chimica Analitica Viterbo, 16-20, 09, 2007.
- 13) Ben Rejeb , F. Arduini , A. Amine, D. Moscone, M. Gargouri, G. Palleschi
Development of biosensor for AFB1 in olive oil samples (poster)
XX Congresso Nazionale di Chimica Analitica Viterbo, 16-20,09, 2007
- 14) J. Calvo Quintana , F. Arduini, A. Mandil, A. Amine, G. Palleschi, D Moscone
Development a sensor based on screen printed electrode modified with bismuth film for lead determination in milk (poster)
XX Congresso Nazionale di Chimica Analitica Viterbo, Italy, 16-20,09, 2007
- 15) D. Di Tuoro, M. Portaccio, D. G. Mita, F. Arduini, D. Moscone
Determinazione dell'interferente endocrino BPA tramite un biosensore con tirosinasi immobilizzata su elettrodi stampati modificati con carbon black e tionina (poster)
XXI Congresso Nazionale di Chimica Analitica Arcavacata di Rende (CS), 21-25,09, 2008
- 16) F. Arduini,C. Majorani, F. Cataldo, A. Amine, D. Moscone,G. Palleschi
Dispersione stabile di carbon black per aumentare le prestazioni analitiche degli elettrodi stampati monouso: un'applicazione per la determinazione del Hg²⁺ (poster)
XXI Congresso Nazionale di Chimica Analitica Arcavacata di Rende (CS), 21-25,09, 2008
- 17) F. Arduini, A. Amine, D. Moscone, G. Palleschi
Ottimizzazione di diversi tipi di immobilizzazione della colinesterasi su elettrodi stampati monouso per ottenere un biosensore con elevata stabilità operativa e tempo di vita (poster)
XXI Congresso Nazionale di Chimica Analitica Arcavacata di Rende (CS), 21-25,09, 2008
- 18) J. C. Quintana, F. Arduini, A. Amine, C. Forni, G. Palleschi, D. Moscone
Sviluppo di sensori stampati modificati con film di bismuto per la determinazione del Pb²⁺: applicazioni in campo ambientale e alimentare (oral presentation)
XXI Congresso Nazionale di Chimica Analitica Arcavacata di Rende (CS), 21-25,09, 2008
- 19) J. Calvo Quintana, F. Arduini, A. Amine, A. Pastorelli, P. Stacchini, M. Baldini, G. Palleschi, D. Moscone

19) Determination of Lead in Milk by means of electrochemical sensors: study of the sample treatment and validation (poster)

XXIII Congresso Nazionale della Società Chimica Italiana Sorrento, 5-10,07, 2009

20) F. Arduini, A. Amine, K. Van Velzen, D. Moscone, G. Palleschi

Biosensor for Sarin gas: decrease of analysis time by means of kinetic approach (poster)

XXIII Congresso Nazionale della Società Chimica Italiana Sorrento, 5-10,07, 2009

21) D. Sordi, D. Moscone, V. Conte, G. Palleschi, F. Arduini

Analytical chemistry and organic chemistry: a sensor for monitoring the oxidation reactions in ionic liquids (poster)

XXIII Congresso Nazionale della Società Chimica Italiana Sorrento, 5-10,07, 2009

22) F. Arduini, F. Di Nardo, A. Amine, L. Micheli, D. Moscone, G. Palleschi

Nuovo sensore per la misura dell' H_2O_2 basato su elettrodi stampati modificati con carbon black (poster)

XXII Congresso Nazionale di Chimica Analitica, Como, 12-16,09, 2010

23) F. Arduini, S. Guidone, A. Amine, F. Marini, G. Palleschi, D. Moscone

Sviluppo di un biosensore elettrochimico per la misura di pesticidi organofosforici tramite self assembled monolayer di cisteamina ed acetilcolinesterasi (poster)

XXII Congresso Nazionale di Chimica Analitica, Como, Italy, 12-16,09, 2010

24) F. Arduini, E. Vitale, D. Neagu, E. Gatto, G. Palleschi, D. Moscone

Verso lo sviluppo di un sistema portatile per la misura dell'OTA e AFB1 (poster)

XXII Congresso Nazionale di Chimica Analitica, Como, Italy, 12-16,09, 2010

25) L. Cirelli, L. Micheli, F. Arduini, F. Caprio, G. Palleschi, D. Moscone

Determinazione dell'alfa-amilasi mediante sistema in flusso bi enzimatico (poster)

XXII Congresso Nazionale di Chimica Analitica, Como, 12-16,09, 2010

26) F. Arduini

Misura di contaminanti chimici mediante sensori e biosensori (oral presentation)

Convegno organizzato da ASSOCIAZIONE NAZIONALE UFFICIALI TECNICI DELL'ESERCITO ITALIANO "La grande sfida:rivelare, recepire, reagire" Villa Mondragone, Roma, 10, 11, 2010

27) F. Arduini, F. Di Nardo, E. Suprun, L. Micheli, A. Amine, D. Moscone, G. Palleschi

Carbon black modified screen-printed electrodes (oral presentation)

Workshop GS2011, Teramo, 15-17, 06, 2011

28) F. Arduini, M. Forchielli, A. Amine, G. Palleschi, D. Moscone

Cholinesterase biosensor for pesticide detection in waste waters based on screen printed electrodes modified with nanostructured carbon black (poster)

Convegno Nazionale Sensori, Roma, 15-17,02, 2012

- 29) D. Moscone, F. Arduini, S. Cinti, G. Palleschi
Sviluppo di nuovi sensori elettrochimici monouso modificati con nanoparticelle di Au e Carbon Black per la determinazione di As in acque potabili (poster)
IX Congresso Italiano Chimica degli Alimenti, Ischia, 3-7 giugno 2012
- 30) F. Arduini, C. Zanardi, S. Cinti, N. Alaimo, F. Terzi, R. Seeber, D. Moscone, G. Palleschi
Development of sensors based on screen-printed electrodes modified with carbon black and gold nanoparticles nano-composite (oral presentation)
XXIII Congresso Nazionale della Divisione di Chimica Analitica, Isola D'Elba, 16-20,09, 2012
- 31) F. Arduini
Biosensor for BPA detection (oral presentation)
X Convegno Nazionale I.N.B.B. Roma 22-23 ottobre 2012
- 32) F. Arduini, A. Amine, M. Forchielli, D. Neagu, S. Cinti, G. Vellucci, I. Cacciotti, F. Nanni, G. Palleschi, D. Moscone
Screen-printed electrodes modified with nanostructured carbon black as platform to develop sensors and biosensors (oral presentation)
XXIV CONGRESSO NAZIONALE DI CHIMICA ANALITICA, Sestri Levante , 15-19,09, 2013.
- 33)F. Arduini, S. Cinti, D. Neagu, D. Talarico, G. Vellucci, G. Palleschi, D. Moscone
Sensors based on screen-printed electrodes modified with carbon black (oral presentation)
GEI Giornate dell'elettrochimica italiana, Pavia 22-27,09, 2013
- 34)F. Arduini, D. Moscone Le possibili applicazioni dei biosensori in campo clinico
XI Convegno Nazionale I.N.B.B. Roma 22-23 ottobre 2012
- 35) S. Cinti, F. Arduini, D. Moscone, G. Palleschi, T. Killard
Development of hydrogen peroxyde sensor based on screen-printed electrode modified with inkjet printed prussian blue nanoparticles (oral presentation)
Secondo congresso nazionale sensori, Roma, 19-21,02,2014
- 36)F. Arduini, D. Neagu, S. Patarino, D. Moscone, G. Palleschi
Automatisable flow system for detecting paraoxon by screen-printed biosensors modified with Prussian Blue nanoparticles and butyrylcholinesterase (oral presentation)
Giornata Scientifica "Chimica Bioanalitica per la Sicurezza Ambientale ed Alimentare, Bologna, 4, 07,2014
- 37) D. Compagnone, M. del Carlo, D. Innocenzi, F. Arduini, D. Moscone, G. Palleschi, L. Agui, V. Serafin
Development of hydrogen peroxyde sensor based on screen-printed electrode modified with inkjet printed prussian blue nanoparticles (oral presentation)
XXV Congresso SCI, Arcavacata di rende, (CS), 7-12,09, 2014

- 38). A. Amine, S. Cinti, F. Arduini, D. Moscone, G. Palleschi
The use of integrated Michaelis Menten equation in analytical determination of inhibitors (oral presentation)
XXV Congresso SCI, Arcavacata di rende, (CS), 7-12,09, 2014
- 39)D. Talarico, M, Dieci, D. Sordi, F. Arduini,G. Palleschi, D. Moscone, G. Koper
Development of screen-printed electrode with carbon networks (oral presentation)
XXV Congresso SCI, Arcavacata di rende, (CS), 7-12,09, 2014
- 40) F. Arduini, D. Neagu, G. Palleschi, D. Moscone
Rapid aflatoxin B1 and ochratoxin A analysis by an optical portable instrument (oral presentation)
XXV Congresso SCI, Arcavacata di rende, (CS), 7-12,09, 2014
- 41) S. Cinti, F. Arduini, D. Moscone, G. Palleschi, T. Killard
Cholesterol bioassay by means of microfluidic device based on prussian blue nanoparticles modified screen-printed electrode (poster)
XXV Congresso SCI, Arcavacata di rende, (CS), 7-12,09, 2014
- 42) F. Arduini, S. Cinti, M. Carbone, L. Sansone, I. Cacciotti, D. Moscone, G. Palleschi
Screen-printed electrodes modified with carbon nanomaterials: a challenge among carbon black, carbon nanotubes and graphene (oral)
GS 2015 - Sensori e biosensori: stato dell'arte e nuove prospettive, Parma 15-17, 06, 2015
- 43) D. Talarico, A. Amine, F. Arduini, D. Moscone, G. Palleschi
Screen-printed electrode modified with carbon black nanoparticles and chitosan as a novel platform for biosensor development (oral)
GS 2015 - Sensori e biosensori: stato dell'arte e nuove prospettive, Parma 15-17, 06, 2015
- 44) S. Cinti, D. Talarico, F. Arduini, G. Palleschi, D. Moscone
"All-in-paper electrochemical sensor to detect phosphates" (oral)
XXV Congresso della Divisione di Chimica Analitica Trieste, 13-17 , 09, 2015
- 45) S. Cinti, M. Basso, F. Arduini, G. Palleschi, D. Moscone
"Paper as substrate for screen-printed electrodes" (poster)
3° Convegno Nazionale Sensori - Roma, 23-25, 02, 2016
- 46) F. Arduini, S. Cinti, D. Neagu, I. Cacciotti, D. Moscone, G. Palleschi,
"A butyrylcholinesterase disposable biosensor based on screen-printed electrode modified with carbon black and cobalt phthalocyanine" (poster)
3° Convegno Nazionale Sensori - Roma, 23-25, 02, 2016
- 47) S. Cinti, M. Basso, F. Arduini, G. Palleschi, D. Moscone (poster presentation)
Paper as substrate for screen-printed electrodes, Terzo Convegno Nazionale Sensori, Roma, February 23-25, 2016.

48) S. Cinti, F. Arduini, G. Palleschi, D. Moscone (oral presentation)

A paper based-nanomodified electrochemical biosensor for ethanol detection in beers
Bioanalitica 2016 "Chimica bioanalitica e nanotecnologie", Bologna, July 4, 2016

49) S. Cinti, F. Arduini, G. Palleschi, D. Moscone

The role of paper in electrochemical (bio)sensing breakthrough
XXVI Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Messina
September, 18-22, 2016

50) M. Tomei, D. Neagu, F. Arduini, D. Moscone

A low cost carbon black modified sensor to detect free chlorine in water samples
XXVI Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Messina
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51) N. Colozza, F. Arduini, M. F. Gravina, L. Amendola, M. Rosati, G. Palleschi, D. Moscone

A miniaturised nafion-bismuth-sensor for evaluating the marine organism *S. plicata* bioremediation capacity toward heavy metal polluted seawater
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September, 18-22, 2016