Prof. Fabiana Arduini

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Academic qualification

12/2018	Associate Professor at Department of Chemical Science and Technologies (Laboratory of Analytical Chemistry), University of Rome Tor Vergata
11/2007 -11/2018	Permanent position as Senior Researcher at Department of Chemical Science and Technologies (Laboratory of Analytical Chemistry), University of Rome Tor Vergata
11/ 2003-11/2006	PhD in Chemical Science at the University of Rome Tor Vergata- 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 - Thesis title: "*Development of the electrochemical sensors for thiol 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 "*New Trends for the Determination of Pesticides in Environmental Samples*" 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.
2017-2018	Editor of special issue in **Sensors journal** entitled: "*Development of Enzymatic Electrochemical Biosensors and Applications*"
2017-2018	Editor of special issue in **Sensors journal** entitled: "*Paper-based sensors*".
2017-2018	Editor of special issue in **Chemosensors journal** entitled: "*Printed Electroanalytical Tools for De-Centralized Application"*
2019	Coordinator of Interdivisional Sensor Group, Italian Chemical Society for the period 2019-2021
2019	RGQ of the Certified Laboratory ISO 9001 LABCap of the Department of Chemical Science and Technologies, University of Rome Tor Vergata
2019	Member of the Scientific Committee of Master Maris, Faculty of Economics, University of Rome Tor Vergata
2019	Member of the Committee of the Sustainability headed by Prof. Giovannini, University of Rome Tor Vergata

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 (bio)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:

-**91** articles (**10** reviews) in ISI peer-reviewed journals, among them with high impact factor in the analytical chemistry journal (e.g. Biosensor and Bioelectronics IF 8.173).

-**12** chapters in books

-**5** proceedings.

23 articles as first-author **+ 49** articles as corresponding author **+ 5** articles as co-corresponding author

H-index: 35, with 2814 total citations (Scopus, May 2019).

- **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/ezine/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 H_2O_2 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/)***

Patent:

F. Arduini, D. Neagu, M.R. Tomei, A. Boccella, D. Moscone PCT/EP2018/061383; May 2018; NANO- AND/OR MICROSTRUCTURED PRINTED ELECTRODES.

She is author of more than **100** among poster and oral presentations at National and International congress, including plenary, keynotes and invited talk.

She is also a referee of international journals such as Analytical Chemistry, Biosensors and Bioelectronics, Analytica Chimica Acta, Talanta, Sensor and Actuators B, Scientific Reports, et al. (*more than 150 papers*).

National and Internationals Collaborations:

- Facultè 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;
- Departemento de Quimica Analitica, 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 2016** Visiting post-doc researcher at post-doc researcher 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: **Head of UTV Unit**
- 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: **Italian Coordinator**
- European Defency Agency 2015 , "Generic Identification of Agents: SOlving New Emergencies", Role: **Partner**
- Mobility project Germany-Italy MIUR-DAAD Joint Mobility Program 2016-2017 "Rapid detection of salmonella using a smart multiplexed impedimetric paper based sensor" Role: **Italian Coordinator**
- 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: **European Coordinator**

- INNOCONCRETE project “Innovative tools for conservation and monitoring of artworks in concrete by exploiting electrochemical paper-based sensors, functionalised nanomaterials, and modelling” within Executive Programme on Scientific and Technological Cooperation between Italian Republic and the Kingdom of Sweden for the years 2018-2020, Role: **Italian Coordinator**
- European project H2020 SME instrument SWAT “An innovative system capable of monitoring and removing heavy metals, phenolic compounds and biological pollutants in drinking water”, Project ID: 775885, Role: **Project manager**

Invited Talks/ Plenary/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 successfull cost-effective raw carbonaceous nanomaterial for electrochemical (bio)sensor development" invited plenary at "IX All-RussianConference 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.
October 2017	“Paper-based and reagent free (bio)sensors” Invited Key Note at “Eight International Workshop on Biosensors for Food Safety and Environmental Monitoring”, October 12th - 14th, 2017 , Rabat, Morocco
April 2018	“Electrochemistry and paper towards a new route: electrochemical paper-based (bio)sensors” Invited Key Note at 4th International Symposium on Electrochemistry “Pure and Applied Electrochemistry, April 3rd-5th 2018, Johannesburg, South Africa

September 2018	"Carbon Black as Successful and Cost-effective Nanomaterial for the Design of Printable Electrochemical (Bio)sensors" Invited presentation at 69th Annual ISE Meeting, 2nd-7th September 2018, Bologna, Italy
April 2019	"Carbon black for the development of cost-effective and miniaturised electrochemical sensors", keynote at NanoMAT 2019, Tunisia
May 2019	"Screen-printed electrodes as cost-effective and miniaturized analytical tools for environmental and biomedical analyses" invited talk at IEEE International Conference on Design & Test of integrated micro & nano-Systems, Gammarth, Tunis, Tunisia
May 2019	"Cutting edge technologies for fostering biosensors in water quality monitoring, precision medicine and food safety assessment", invited talk at CRMN of Technopole of Sousse, Tunisia
May 2019	"Sustainable forefront technologies for the design of smart electrochemical (bio)sensors" plenary lecture at Exploratory Workshop NeXT-Chem, National Institute for Research and Development in Chemistry and Photchemistry, Bucharest, Romania
May 2019	"Electrochemical paper-based (bio)sensors as new smart and sustainable analytical tools" invited talk at University of Milan, Italy

Project Evaluator:

Evaluator for Agence nationale de la recherche, Academy of Finland, Central Finance and Contracting Agency (CFCA) of the Republic of Latvia, European Commission Marie Curie Actions, National research foundation, South Africa.

Teaching activity:

09/08 – 09/10 Analytical Chemistry: Biology Bachelor degree of University of Rome, Tor Vergata (average enrolment: 200 students)

09/08 – 09/18 Analytical Chemistry II: Chemistry Bachelor degree of University of Rome, Tor Vergata (average enrolment: 70 students)

09/08 – 09/18 Analytical Chemistry II: Applied Chemistry Bachelor degree of University of Rome, Tor Vergata (average enrolment: 70 students)

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

09/10– 09/11 Environmental Analytical Chemistry: Applied Chemistry Bachelor degree of University of Rome Tor Vergata (average enrolment: 20 students)

09/15-09/18 Analytical Chemistry: Master Degree in Medical Biotechnology

Supervisors of 5 PhD students (Stefano Cinti, Daria Talarico, PhD thesis discussion on 2016), Noemi Colozza. Maria Rita Tomei (3rd year of PhD), Vincenzo Mazzaracchio (2nd year of PhD).

Supervisor of over 30 degree theses (Master's Degree in Chemistry, Bachelor's Degree in Chemistry, Master's Degree in Industrial Biotechnology, Master's Degree in Chemistry and Pharmaceutical Technology).

List of publications:

Articles:

1. Karamia, P., Khoshsafara, H., Johari-Aharb, M., **Arduini, F**., Afkhamie, A., Bagheri H. Colorimetric immunosensor for determination of prostate specific antigen using surface plasmon resonance band of colloidal triangular shape gold nanoparticles. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 2019, 222, 117218

2. Scognamiglio, V., Antonacci, A., **Arduini, F**., Moscone, D., Campos, E. V., Fraceto, L. F., & Palleschi, G. An eco-designed paper-based algal biosensor for nanoformulated herbicide optical detection. Journal of Hazardous Materials 2019, 373, 483-492.

3. Hashemi, P., Karimian, N., Khoshsafar, H., **Arduini, F**., Mesri, M., Afkhami, A., & Bagheri, H. Reduced graphene oxide decorated on Cu/CuO-Ag nanocomposite as a high-performance material for the construction of a non-enzymatic sensor: Application to the determination of carbaryl and fenamiphos pesticides. Materials Science and Engineering: C 2019, 102, 764-772.

4. Tomei, M. R., Cinti, S., Interino, N., Manovella, V., Moscone, D., & **Arduini, F**. **(Corr. Author).** Paper- based electroanalytical strip for user-friendly blood glutathione detection. Sensors and Actuators B: Chemical 2019, 294, 291-297.

5. Karami, P., Bagheri, H., Johari-Ahar, M., Khoshsafar, H., **Arduini, F**., Afkhami, A. Dual-modality impedimetric immunosensor for early detection of prostate-specific antigen and myoglobin markers based on antibody-molecularly imprinted polymer. Talanta 2019, 202, 111-122.

6. Bagheri, N., Cinti, S., Caratelli, V., Massoud, R., Saraji, M., Moscone, D., **Arduini, F.** A 96-well wax printed Prussian Blue paper for the visual determination of cholinesterase activity in human serum. Biosensors and Bioelectronics 2019, 134, 97-102.

7. N. Colozza, K. KeheG. Dionisi , T. Popp, A. Tsoutsoulopoulos, D. Steinritz, D. Moscone, **F. Arduini (Corr. Author)** A wearable origami-like paper-based electrochemical biosensor for sulfur mustard detection Biosensors and Bioelectronics 2019, 129, 15–23

8. **F. Arduini (Corr. Author)**, S Cinti, V Caratelli, L Amendola, G Palleschi, D Moscone Origami multiple paper-based electrochemical biosensors for pesticide detection Biosensors and Bioelectronics, 2019, 126, 346-354

9. V. Mazzaracchio, D. Neagu, A. Porchetta, E. Marcoccio, A. Pomponi, G. Faggioni, N. D'Amore, A. Notargiacomo, M. Pea, D. Moscone, G. Palleschi, F. Lista, **F. Arduini (Corr. Author)** A label-free impedimetric aptasensor for the detection of Bacillus anthracis spore simulant. Biosensors and Bioelectronics, 2019, 126, 640-646.

10. A. Sassolini, N. Colozza, E. Papa, K. Hermansson, I. Cacciotti, **F. Arduini (Corr. Author)**
Screen-printed electrode as a cost-effective and miniaturized analytical tool for corrosion monitoring of reinforced concrete. Electrochemistry Communications, 2019, 98, 69-72.

11. S. Cinti, E. Proietti, F. Casotto, D. Moscone, F. Arduini
Based Strips for the Electrochemical Detection of Single and Double Stranded DNA.
Analytical Chemistry, 2018, 90 13680-13686.

12. V. Pagliarini, D. Neagu, V. Scognamiglio, S. Pascale, G. Scordo, G. Volpe,E. Delibato, E. Pucci, A. Notargiacomo, M. Lilia, D. Moscone, **F. Arduini (Corr. Author)**
Treated Gold Screen-Printed Electrode as Disposable Platform for Label-Free Immunosensing of Salmonella Typhimurium.
Electrocatalysis 2018, https://doi.org/10.1007/s12678-018-0491-1

13. Colozza, N., Kehe, K., Popp, T., Steinritz, D., Moscone, D., **F. Arduini (Corr. Author)**
Paper based electrochemical sensor for on-site detection of the sulphur mustard. Environmental Science and Pollution Research, 2018, https://doi.org/10.1007/s11356-018-2545-6

14. A.A. Lahcen, **F. Arduini (Corr. Author)**, F. Lista, A. Amine,
Label-free electrochemical sensor based on spore-imprinted polymer for Bacillus cereus spore detection
Sensors and Actuators B: Chemical 2018, 276, 114-120

15. N. Pajooheshpour, M. Rezaei, A. Hajian, A. Afkhami, M. Sillanpää, **F. Arduini,** H. Bagheri, (2018). Protein templated Au-Pt nanoclusters-graphene nanoribbons as a high performance sensing layer for the electrochemical determination of diazinon.
Sensors and Actuators B: Chemical 2018, 275, 180-189.

16. A. Amine, S. Cinti, **F. Arduini (Corr. Author)**, D. Moscone, G. Palleschi
How to extend range linearity in enzyme inhibition-based biosensing assays
Talanta 2018, 189, 365-369

17. M.R. Tomei, **F. Arduini (Corr. Author),** D. Neagu, D. Moscone
Carbon black-based disposable sensor for an on-site detection of free chlorine in swimming pool water
Talanta 2018, 189, 262-267

18. S. Cinti, F. Limosani, M. Scarselli, **F. Arduini (Corr. Author)**
Magnetic carbon spheres and their derivatives combined with printed electrochemical sensors.
Electrochimica Acta. 2018 282, 247-254

19. S. Cinti, R. Cusenza, D. Moscone, F. Arduini, Paper- based synthesis of Prussian Blue Nanoparticles for the development of whole blood glucose electrochemical biosensor.
Talanta 2018, 187, 59-64.

20. S. Cinti, V. Mazzaracchio, G. Öztürk, D. Moscone**, F. Arduini**, A lab-on-a-tip approach to make electroanalysis user-friendly and de-centralized: Detection of copper ions in river water. Analytica Chimica Acta, 2018, 1029, 1-7

21. M. Scarselli, F. Limosani, M. Passacantando, F. D'Orazio, M. Nardone, I, Cacciotti, **F. Arduini**, E. Gaudron, M. De Crescenzi. Influence of Iron Catalyst in the Carbon Spheres Synthesis for Energy and Electrochemical Applications.
Advanced Materials Interfaces, 2018, in press, https://doi.org/10.1002/admi.201800070

22. S. Cinti, N. Colozza, I. Cacciotti, D. Moscone, M. Polomoshnov, E. Sowade, R.R. Baumann, **F. Arduini (Corr. Author)**
Electroanalysis moves towards paper-based printed electronics: carbon black nanomodified inkjet-printed sensor for ascorbic acid detection as a case study. *Sensors and Actuators B 2018, 265*, 155-160.

23. A. Antonacci, M.D. Lambreva, M. F. Arduini, D. Moscone, G. Palleschi, V. Scognamiglio, A whole cell optical bioassay for the detection of chemical warfare mustard agent simulants. Sensors and Actuators B 2018, 257, 658-665.

24. G. Scordo, D. Moscone, G. Palleschi, **F. Arduini (Corr. Author)**
A reagent-free paper-based sensor embedded in a 3D printing device for cholinesterase activity measurement in serum.
Sensors and Actuators B 2018, 258, 1015-1021.

25. A. Antonacci, F. Arduini, D. Moscone, G. Palleschi, V. Scognamiglio,
Nanostructured (Bio) Sensors For Smart Agriculture.
TrAC Trends in Analytical Chemistry 2018, 98, 95-103 (***cover page***)

26. S. Cinti, L. Fiore, R. Massoud, C. Cortese, D. Moscone, G. Palleschi, **F. Arduini (Co-Corr. Author)**
Low-cost and reagent-free paper-based device to detect chloride ions in serum and sweat. Talanta 2018, 179, 186-192.

27. 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 2017, 253, 1199-1206.

28. S. Cinti, V. Mazzaracchio, I. Cacciotti, D. Moscone, **F. Arduini (Co-Corr. Author)**
Carbon black-modified electrodes screen-printed onto paper towel, waxed paper and Parafilm
Sensors 2017, 17, 2267, 1-12.

29. 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.

30. 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

31. 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.

32. 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

33. 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

34. 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

35. D. Moscone, G. Volpe, **F. Arduini**, L. Micheli, Rapid electrochemical screening methods for food safety and quality.

ACTA IMEKO, 2016, 5, 45-50

36. **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

37. 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

38. **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

39. 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

40. **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 B_1 using an optical portable instrument

Talanta 150 (2016) 440–448

41. A. Amine, **F. Arduini**, D. Moscone, G. Palleschi
Recent advances in biosensors based on enzyme inhibition (*review*)
Biosensors and Bioelectronics 76 (2016) 180–194

42. 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

43. S. Cinti, F. Santella, D. Moscone, **F. Arduini (*Corr. Author*)**
Hg^{2+} 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

44. 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

45. 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

46. 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

47. 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

48. 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

49. **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

50. 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

51. 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.

52. **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

53. **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

54. **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

55. 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-Printet Prussian Blue Nanoparticles
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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 Settembre
3) **F.Arduini**, F.Ricci, A.Amine, D.Moscone, G.PalleschiDeterminazione di pesticidi organofosforici e carbammici mediante un biosensore monouso (poster)
   VI Convegno nazionale Istituto Nazionale Biostrutture e Biosistemi Napoli, 4-6 Novembre 2004.
4) 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 Settembre 2005.
5) 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 communication)
   XIX Congresso nazionale di Chimica Analitica Pula (Ca), 11-15 Settembre 2005.
6) **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 Febbraio 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 Settembre 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 Settembre 2006.
9) **F. Arduini**, F. Ricci, A. Amine, D. Moscone, G. Palleschi
   Misure di Sarin in fase gassosa con biosensori stabili e monouso (oral communication)
   XXII Congresso Nazionale della Società Chimica Italiana Firenze, 10-15 Settembre 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 Settembre 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 Settembre 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 Settembre 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 Settembre 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 Settembre 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 Settembre 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 di Hg^{2+} (poster)
XXI Congresso Nazionale di Chimica Analitica Arcavacata di Rende (CS), 21-25 Settembre 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 Settembre 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 communication)
XXI Congresso Nazionale di Chimica Analitica Arcavacata di Rende (CS), 21-25 Settembre 2008

19) J. Calvo Quintana, **F. Arduini**, A. Amine, A. Pastorelli, P. Stacchini, M. Baldini, G. Palleschi, D. Moscone
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 Luglio 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 Luglio 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 Luglio 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 Settembre 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 cisteammina ed acetilcolinesterasi (poster)
XXII Congresso Nazionale di Chimica Analitica, Como, 12-16 Settembre 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 Settembre 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 Settembre 2010

26) **F. Arduini**
Misura di contaminanti chimici mediante sensori e biosensori (oral communication)
Convegno organizzato da ASSOCIAZIONE NAZIONALE UFFICIALI TECNICI DELL'ESERCITO ITALIANO "La grande sfida:rivelare, recepire, reagire" Villa Mondragone, Roma, 10 Novembre 2010

27) **F. Arduini**, F. Di Nardo, E. Suprun, L. Micheli, A. Amine, D. Moscone, G. Palleschi
Carbon black modified screen-printed electrodes (oral communication)
Workshop GS2011,Teramo, 15-17 giugno 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 Febbraio 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 communication)
XXIII Congresso Nazionale della Divisione di Chimica Analitica, Isola D'Elba, 16-20 settembre 2012

31) **F. Arduini**
Biosensor for BPA detection (oral communication)
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 communication)
XXIV CONGRESSO NAZIONALE DI CHIMICA ANALITICA, Sestri Levante , 15-19 Settembre 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 communication)

GEI Giornate dell'elettrochimica italiana, Pavia 22-27 Settembre 2013

34) C. Zanardi, F. Arduini, S. Cinti, D. Moscone, G. Palleschi, L. Pigani, R. Seeber, F. Terzi
Carbon black – gold nanoparticles composite for the development of efficient amperometric sensors (poster)
II Convegno Nazionale Sensori, Roma 19-21 Febbraio 2014.

35) S. Cinti, **F. Arduini**, G. Palleschi, D. Moscone, A.J. Killard
Development of hydrogen peroxide sensor based on screen-printed electrode modified with inkjet printed prussian blue nanoparticles (oral communication)
II Convegno Nazionale Sensori, Roma 19-21 Febbraio 2014

36) S. Cinti, **F. Arduini**, G. Palleschi, D. Moscone, A.J. Killard
Cholesterol bioassay by-means of microfluidic device based on prussian blue nanoparticles modified screen-printed electrodes (poster)
XXV Congresso Nazionale della Società Chimica Italiana, Arcavacata di Rende (CS), 7-12 Settembre 2014.

37) D. Compagnone, M. Del Carlo, D. Innocenzi, **F. Arduini**, D. Moscone, G. Palleschi, L. Agui, V. Serafin
Carbon black modified GC electrode for the detection of antioxidant compounds (oral communication)
XXV Congresso Nazionale della Società Chimica Italiana, Arcavacata di Rende (CS), 7-12 Settembre 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 communication)
XXV Congresso Nazionale della Società Chimica Italiana, Arcavacata di Rende (CS), 7-12 Settembre 2014.

39) D. Talarico, M. Dieci, D. Sordi, **F. Arduini**, G. Palleschi, D. Moscone, G. Koper
Development of Screen-printed Electrodes modified with Carbon Networks (oral communication)
XXV Congresso Nazionale della Società Chimica Italiana, Arcavacata di Rende (CS), 7-12 Settembre 2014.

40) **F. Arduini**, D. Neagu, D. Moscone, G. Palleschi
Rapid Aflatoxin B_1 and Ochratoxin A analytica by an optical portable instrument
XXV Congresso Nazionale della Società Chimica Italiana, Arcavacata di Rende (CS), 7-12 Settembre 2014.

41) **F. Arduini**, D. Neagu, S. Patarino, D. Moscone, G. Palleschi
Automatable flow system for detecting paraoxon by screen-printed biosensors modified with Prussian Blue nanoparticles and butyrylcholinesterase
Giornata Scientifica "Chimica Bioanalitica per la Sicurezza Ambientale ed Alimentare", Bologna, 4 luglio, 2014

42) D. Talarico, Arduini, S. Cinti, A. Amine, D. Moscone, G. PalleschiCost-effective and sensitive sensor for phosphate detection by screen-printed electrodes modified with carbon black nanoparticles (poster)
XXVIII AISEM Annual Conference, Trento, 3-5 Febbraio 2015.

43) **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 communication)
GS 2015 Sensori e biosensori: stato dell'arte e nuove prospettive, Parma, 15-17 Giugno 2015

44) 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 (poster)
GS 2015 Sensori e biosensori: stato dell'arte e nuove prospettive, Parma, 15-17 Giugno 2015

45) S. Cinti, D. Talarico, **F. Arduini**, G. Palleschi, D. Moscone
All-in-paper electrochemical sensor to detect phosphates (oral communication)
XXV Congresso Nazionale della Divisione di Chimica Analitica della Società Chimica Italiana
Trieste 13 - 17 Settembre 2015

46) S. Cinti, M. Basso, **F. Arduini**, G. Palleschi, D. Moscone
Paper as substrate for screen-printed electrodes (poster)
Terzo Convegno Nazionale Sensori
Roma 23-25 Febbraio 2016

47) M.R. Tomei, D. Neagu, **F. Arduini**, D. Moscone
Screen-printed electrodes to detect chlorine dioxide in swimming pool water (poster)
Giornata Scientifica Bioanalitica 2016, Chimica bioanalitica e nanotecnologie, Bologna 4 Luglio 2016

48) N. Colozza, G. Dionisi, **F. Arduini**, D. Moscone, G. Palleschi
Mustard Agents detection using a nanomodified electrochemical biosensor (poster)
Giornata Scientifica Bioanalitica 2016, Chimica bioanalitica e nanotecnologie, Bologna 4 Luglio 2016

49) S. Cinti, **F. Arduini**, G. Palleschi, D. Moscone
A paper based-nanomodified electrochemical biosensor for ethanol detection in beers (oral communication)
Giornata Scientifica Bioanalitica 2016, Chimica bioanalitica e nanotecnologie, Bologna 4 Luglio 2016

50) M.R. Tomei, D, Neagu, **F. Arduini**, D. Moscone
A low cost carbon black modified sensor to detect free chlorine in water samples (oral communication)
XXVI Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Giardini di Naxos 18-22 Settembre 2016

51) 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, Giardini di Naxos 18-22 Settembre 2016

52) 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
XXVI Congresso della Divisione di Chimica Analitica della Società Chimica Italiana, Giardini di Naxos 18-22 Settembre 2016

53) S. Cinti, **F. Arduini**, G. Palleschi, D. Moscone
Paper as substrate in bioelectroanalysis for healthcare applications (oral communication)
Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi, Ferrara, 10-11 Luglio 2017.

54) **F. Arduini**, S. Cinti, N. Colozza, D. Moscone, G.Palleschi

Paper-based (bio)sensors for the detection of chimica warfare agents (oral communication)
Giornate di Chimica Analitica in memoria del Prof. Francesco Dondi, Ferrara, 10-11 Luglio 2017.

55) M.R. Tomei, D. Neagu, **F. Arduini**, D. Moscone
Carbon black modified screen-printed electrodes to detect chlorine dioxide (oral communication)
XXVI Congresso Nazionale della Società Chimica Italiana, Paestum 10 – 14 Settembre 2017

56) V. Mazzaracchio, D. Neagu, A. Porchetta, D. Moscone, G. Palleschi, A. Pomponi, G. Faggioni, F. Lista, **F. Arduini**
Bacillus spore detection by a label free biosensor based on aptamer (oral communication)
XXVI Congresso Nazionale della Società Chimica Italiana, Paestum 10 – 14 Settembre 2017

57) N. Colozza, **F. Arduini**, D. Moscone, G. Palleschi
A paper-based and reagent-free biosensor for mustard agent detection (oral communication)
XXVI Congresso Nazionale della Società Chimica Italiana, Paestum 10 – 14 Settembre 2017