

R. PILLOTON - CURRICULUM VITAE



Name
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[Roberto Pilloton](#)
[Consiglio Nazionale delle Ricerche](#)
[Istituto Cristallografia \(IC\)](#)
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roberto.pilloton@cnr.it
<http://www.biosensing.net> [MYPAGE@CNR.IT](#) [Selected papers](#)
01/02/1960 Rome, Italy

Higher
Education

Degree in Chemistry (110/110 cum laude), October 1986, La Sapienza, University of Rome, Italy. Thesis: Electrochemical Biosensors for Food

Professional
qualification

Analytical Chemistry (*October 1986*)

Skills &
activities

Bioanalytical methods based on electrochemical biosensors for food (white and red wines, grapes, must and juice fruits) and environment. Electrochemical biosensor development for glucose, lactose, lactic acid, pyruvic acid, choline, acetylcholine, phenolic compounds, lipids, alcohols, *organophosphoric and carbamic pesticides, herbicides*. *Environmental Analytical Chemistry*. *Screen Printing*. Mediated Electrochemistry, direct electron transfer. Inhibition Biosensors. Pesticide Toxicity. *Enzyme Inhibitors*: cholinesterase inhibitors, *PSII inhibitors*. Photosynthetic Biosensors. Enzyme biosensors. Microbial biosensors. Flow through ion selective electrodes for potassium. Screen printed electrodes. Application of the above mentioned sensors to artificial pancreas monitoring (Betalike Ansaldo ESAOTE), food analysis and process monitoring. Flow injection analysis and its application in the field of biosensors and process monitoring. Hollow fibre membrane bioreactor for lactose hydrolysis. Molecular Imprinted Polymers for Integrated Chemical Sensors. Lab on a chip. Electrode microarray. Nanostructured electrodes and nano electrode ensembles (NEE). Surface functionalisation. Covalent *immobilisation of biomolecules*. Electrochemical addressing of engineered biological molecules on micro-electrode arrays and their oriented and reversible immobilisation. Ni-NTA chelators. (His)₆ Tag. Self assembled monolayers, *surface science*. [Selected papers](#)

Funded
projects:
Partnership
and
leadership

- Responsible for CNR of Bilateral Contract between Italy and Romania (2006)
- Responsible for CNR of Bilateral Contract with TUBITAK (Turkey, 2003)
- Responsible for ENEA of μ -sys project: FIRB, Fondo Italiano per la ricerca di base (2003-2005)
- Participant to EU Project: EU FW5 PROSEPPROMILK: RObust Chemical SENSors and biosensor for raPid on-line identification of fReshly cOLlected MILK (2002-2004)
- Responsible of CalPark Project and teacher of a Higher education course on Biosensors (University of Calabria, 2002)
- Responsible of the Enea Target Project P878 COSMIC: Coupling Smart Molecules Into Chips
- Responsible for ENEA of SIMOFE Project: "Sistema Multisensore per il monitoraggio dei processi fermentativi nella produzione di formaggi tipici regionali", Progetto PROBIO, Fondi Europei di Sviluppo Regionale (FESR, 1999-2001)
- Participant to Project: LG 950980 NATO: "Isolated Photosystem II Complex as a biosensor for monitoring photosynthetic herbicides" (1998-2000)
- Participant to EU Project: BRITE-EURAM 95-1745: MIMICS: Molecularly Imprinted Materials for Integrated Chemical Sensors (1995-1997)
- Participant to EU project: EV5V-CT94-0358: "Development and validation of s-triazine and pyrethroid specific immunosensor" (1994-1996)

Conference chair	He was the chairman of 2 national and 4 international conferences
Referee of int. journals	Guest editor of international journals (2 issues for Taylor & Francis, 4 issues for MDPI). Reviewer of International Journal on Environmental Analytical Chemistry, Food Chemistry, Bioelectrochemistry, Journal of Molecular Catalysis B: Enzymatic, Talanta, Materials Science and Engineering C, Analytica Chimica Acta, Sensors & Actuators: B: Chemical, Colloids and Surfaces B: Biointerfaces, Sensors, e-Journal on Biotechnology, Bioelectrochemistry, RSC Advances, Food Technology and Biotechnology, Analytical Letters, Journal of Sensors, International Journal of Electrochemistry, Journals of Hindawi Publishing Corporation, Applied Clay Science.
Training	He was the tutor of several (23) degree and PhD theses from abroad and from Italian Universities, national and international fellows (8). Higher education and specialization courses in Biotechnology and invited lessons and lectures on biosensors at the universities of Pavia, Pisa, Rome, Salerno, Trento, Turin, Ca' Foscari Venice, Midland, Izmir (Ege University, Turkey), Pammukalè (Turkey), CEA (Orsay, France), Českých Budějovicích (Czech Rep.). He also taught courses on Environmental Analytical Chemistry at University of Pavia and at University of Trento as Adjunct Professor (Professore a contratto)
Chronology	
2019	Editor in Chief of IJEAC "International Journal of Environmental Analytical Chemistry" (Taylor & Francis, London UK)
2018	Honorary Professor at AINT Amity Institute of Nanotechnology, Nodia, New Delhi, India
2018	Elected member of the Executive Committee of IAEAC
2018	Scientific committee of ISEAC40 - International Symposium on Environmental and Food Analytical Chemistry, Santiago de Compostela (ES) June 19th-22nd
2017	Editorial board of IJEAC (Taylor & Francis)
2016 - 2017	Chair of BBMEC 12 - CNR Rome
2016	Editorial Board of Sensors (Biosensors section, MDPI)
2015	Editorial Board of Biosensors (MDPI)
20/04/2015	Elected Vicepresident of International Association on Environmental Analytical Chemistry
June 2014	Finalist in the EDISON-Start award with the project DRESS-Code together with AMD
2014 - 2018	Elected member of the Executive Committee of IAEAC
2014 - 2015	Member of the Scientific Committee of BBMEC 2015 - University of Regensburg
2013 - today	Senior Researcher @ CNR - IIA (Institute on Atmospheric Pollution)
2013 - today	Associate Researcher @ INAF - IAPS Institute for Space Astrophysics and Planetology
2012	Senior Researcher @ CNR - IFN (Institute for Photonics and Nanotechnology)
2012	Member of the International Advisory Board at ISEAC 37 May 22nd-25th 2012 Antwerp (Belgium)
2010	Chairman of "The 36th International Symposium on Environmental Analytical Chemistry" held in Rome October 5th-9th 2010.
2010	Elected member of the Executive Committee of IAEAC
2010	Adjunct Professor for the Master Course on "Nano on Micro" @ University of Trento
2009 - 2012	Senior researcher at ENEA
2007	Chairman of "The 8th International Workshop on Biosensors and Bioanalytical μ-Techniques in Environmental and Analytical Chemistry" held in Goa (India) October 3th-6th
2006	Responsible for CNR of Bilateral Contract between Italy and Romania
2006	Adjunct Professor for the Master Course on "Nano e Microsistemi elettromeccanici" @ Istituto Trentino di Cultura (ITC)
2006	Elected member of the Executive Committee of IAEAC
2004	Chairman of "The 6th International Workshop on Biosensors and Bioanalytical μ-Techniques in Environmental and Analytical Chemistry" held in Rome October 8th-12th
2003	Responsible for CNR of Bilateral Contract with TUBITAK (Turkey)

2003	Responsible for ENEA of μ -sys project: FIRB, Fondo Italiano per la ricerca di base
2002	Responsible for ENEA of Regional Project (POR Lazio): WINEOCRATOX
2002	Participant to EU Project: EU FW5 PROSEPMILK: ROBust Chemical SEnsors and biosensor for raPid on-line identification of fReshly cOLlected MILK
2002	Responsible of CalPark Project and teacher of Higher Education course on Biosensors (University of Calabria)
2001	Responsible of the Enea Target Project COSMIC: Coupling Smart Molecules Into Chips
2000	Adjunct Professor of Environmental Analytical Chemistry at Università di Pavia
1999	Responsible for ENEA of SIMOFE Project: "Sistema Multisensore per il monitoraggio dei processi fermentativi nella produzione di formaggi tipici regionali", Progetto PROBIO, Fondi Europei di Sviluppo Regionale (FESR)
1999	Chairman of the 2 nd Workshop on Chemical Sensors and Biosensors -18-19/03/1999
1998	Participant to Project: LG 950980 NATO: "Isolated Photosystem II Complex as a biosensor for monitoring photosynthetic herbicides"
1997 - today	Biosensing.net Website started
1997	Visiting scientist at Thomson Paris (FR), Dr.F.Lipskier
1996	Visiting scientist @ Pure & Applied Chemistry Laboratory - Prof. Mossbach, Lund (SE)
1995	Participant to EU Project: BRITE-EURAM 95-1745: MIMICS: Molecularly Imprinted Materials for Integrated Chemical Sensors.
1994	Visiting scientist at Institut fur Technische Biochemie, Prof. R.Schmidt, Stuttgart (DE)
1994	Visiting scientist at GBF, Gesellschaft fur Biotech. Forschung, Prof.U.Bilitevsky, Braunschweig (DE)
1994	Participant to EU project: EV5V-CT94-0358: "Development and validation of s-triazine and pyrethroid specific immunosensor"
1993	Chairman of a one day national workshop on biosensors at ENEA
1991 - 2009	Researcher at ENEA, Via Anguillarese 301, 00060, Santa Maria di Galeria Roma
1991	Winner of PhD fellowship in Analytical Chemistry at University of Rome "La Sapienza"
1991	Grant (ENEA) Automated glucose biosensor based on FIA for lactose hydrolysis in milk
1990	Grant (ENEA) Automated glucose biosensor based on FIA for lactose hydrolysis in milk
1989	Grant (ENEA) funded by IDRONAUT, Brugherio (MI): "ISE for K ⁺ , Ca ²⁺ , Na ⁺ and pH for kidney dialysis treatment"
1988	Grant (ENEA) Hollow fiber membrane enzyme reactor for lactose hydrolysis in diary wastes
1987 - 1988	Grant (University of Rome Tor Vergata), funded by Ansaldo - ESAOTE Elettronica Biomedicale, Genova: "Sensor and biosensor development for artificial pancreas "
1986 - 1987	Grant (University of Rome Tor Vergata) funded by Ansaldo - ESACONTROL Elettronica Biomedicale, Genova: "Sensor and biosensor development for artificial pancreas "
1986	Professional qualification in Analytical Chemistry
1986	Degree in Analytical Chemistry (110/110 cum laude) at the Un. of Rome (Italy) with the thesis entitled: "Electrochemical Biosensors for Food" and Prof.M.Mascini as referent.
1974 - 1978	Secondary school at Liceo Scientifico Archimede, Sez.B, Roma

Publications

- Malvano F, Albanese D, Pilloton R, Di Matteo M (2017). A new label-free impedimetric aptasensor for gluten detection. FOOD CONTROL, vol. 79, p. 200-206, ISSN: 0956-7135, doi: <http://dx.doi.org/10.1016/j.foodcont.2017.03.033>
- ODACI DEMIRKOL D, OZDEMIR C, PILLOTON R, TIMUR S (2017). Carbon Nanotube Modified Screen Printed Electrodes: Pyranose Oxidase Immobilization Platform for Amperometric Enzyme Sensors. SÜLEYMAN DEMIREL ÜNİVERSİTESİ ORMAN FAKÜLTESİ DERGİSİ A SERİSİ, vol. 21, p. 286-291, ISSN: 1302-7085
- Malvano F, Albanese D, Crescitelli A, Pilloton R, Esposito E (2016). Impedimetric Label-Free Immunosensor on Disposable Modified Screen-Printed Electrodes for Ochratoxin A. BIOSENSORS, vol. 6, p. 33-45, ISSN: 2079-6374
- Malvano F, Albanese D, Pilloton R, Di Matteo M (2016). A highly sensitive impedimetric label free immunosensor for Ochratoxin measurement in cocoa beans. FOOD CHEMISTRY, vol. 212, p. 688-694, ISSN: 0308-8146
- F.Malvano, D.Albanese, A.Sannini, A.Crescitelli, Pilloton R, M.Di Matteo (2015). Ethanol content in must grape by Alcohol Dehydrogenase biosensor based on

doped-polyaniline modified screen printed electrodes . CHEMICAL ENGINEERING TRANSACTIONS, vol. 43, ISSN: 2283-9216

- Albanese Donatella, Malvano Francesca, Sannini Adriana, Pilloton R, Di Matteo Marisa (2014). A Doped Polyaniline Modified Electrode Amperometric Biosensor for Gluconic Acid Determination in Grapes. SENSORS, vol. 14, p. 11097-11109, ISSN: 1424-8220, doi: 10.3390/s140611097
- Albanese Donatella, Sannini Adriana, Malvano Francesca, Pilloton R, Di Matteo Marisa (2014). Optimisation of Glucose Biosensors Based on Sol-Gel Entrapment and Prussian Blue-Modified Screen-Printed Electrodes for Real Food Analysis. FOOD ANALYTICAL METHODS, vol. 7, p. 1002-1008, ISSN: 1936-9751, doi: 10.1007/s12161-013-9705-6
- Pea M., Maiolo L., Pilloton R, Rinaldi A., Araneo R., Giovine E., Orsini A., Notargiacomo A. (2014). ZnO nanowires strips growth: Template reliability and morphology study. MICROELECTRONIC ENGINEERING, vol. 121, p. 147-152, ISSN: 0167-9317, doi: 10.1016/j.mee.2014.04.045
- Pilloton R (2012). Special Issue: Proceedings of the 36th International Symposium on Environmental Analytical Chemistry. Rome (Italy), October 5th-9th, 2010 PREFACE. INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol. 92, p. 373-374, ISSN: 0306-7319, doi: 10.1080/03067319.2011.632679
- Ilie Mihaela, Dejana Remo, Foglietti Vittorio, Renda R, Nardi Luigi, Masci Amedeo, Lanza Bruno, Montereali Maria Rita, Della Seta Livia, Vastarella Walter, Pilloton R (2010). Engineering a continuous flow electrochemical micro-cell for biosensor applications: new achievements. INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol. 90, p. 31-39, ISSN: 0306-7319, doi: 10.1080/03067310902795951
- Montereali M. R., Della Seta L., Vastarella W., Pilloton R (2010). A disposable Laccase-Tyrosinase based biosensor for amperometric detection of phenolic compounds in must and wine. JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol. 64, p. 189-194, ISSN: 1381-1177, doi: 10.1016/j.molcatb.2009.07.014
- Sezginturk Mustafa Kemal, Odaci Dilek, Pazarlioglu Nurdan, Pilloton R, Dinckaya Erhan, Telefoncu Azmi, Timur Suna (2010). Construction and Comparison of Trametes versicolor Laccase Biosensors Capable of Detecting Xenobiotics. ARTIFICIAL CELLS, BLOOD SUBSTITUTES, AND IMMOBILIZATION BIOTECHNOLOGY, vol. 38, p. 192-199, ISSN: 1073-1199, doi: 10.3109/10731191003776777
- Odaci Dilek, Sezgintuerk Mustafa Kemal, Timur Suna, Pazarliolu Nurdan, Pilloton R, Dinckaya Erhan, Telefoncu Azmi (2009). Pseudomonas putida Based Amperometric Biosensors for 2,4-D Detection. PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol. 39, p. 11-19, ISSN: 1082-6068, doi: 10.1080/10826060802589460
- Odaci Dilek, Timur Suna, Pazarlioglu Nurdan, Montereali Maria Rita, Vastarella Walter, Pilloton R, Telefoncu Azmi (2007). Determination of phenolic acids using Trametes versicolor laccase. TALANTA, vol. 71, p. 312-317, ISSN: 0039-9140, doi: 10.1016/j.talanta.2006.04.032
- Vastarella Walter, Della Seta Livia, Masci Amedeo, Maly Jan, De Leo Manuela, Moretto Ligia Maria, Pilloton R (2007). Biosensors based on gold nanoelectrode ensembles and screen printed electrodes. INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol. 87, p. 701-714, ISSN: 0306-7319, doi: 10.1080/03067310701332626
- Vastarella Walter, Rosa Vito, Cremisini Carlo, Della Seta Livia, Montereali Maria Rita, Pilloton R (2007). A preliminary study on electrochemical biosensors for the determination of total cholinesterase inhibitors in strawberries. INTERNATIONAL

- Anik U, Tural H, Timur S, Pazarlioglu N, Telefoncu A, Pilloton R (2005). Laccase biosensors based on mercury thin film electrode. ARTIFICIAL CELLS, BLOOD SUBSTITUTES, AND IMMOBILIZATION BIOTECHNOLOGY, vol. 33, p. 447-456, ISSN: 1073-1199, doi: 10.1080/10731190500290261
- Maly J, Ilie M, Foglietti V, Cianci E, Minotti A, Lanza B, Nardi L, Masci A, Vastarella W, Pilloton R (2005). Electrochemically addressed biomolecules onto Au mu-array in a continuous flow mu-chamber. SPECIAL PUBLICATION / ROYAL SOCIETY OF CHEMISTRY, p. 512-514, ISSN: 0260-6291
- Maly J, Ilie M, Foglietti V, Cianci E, Minotti A, Nardi L, Masci A, Vastarella W, Pilloton R (2005). Continuous flow micro-cell for electrochemical addressing of engineered bio-molecules. SENSORS AND ACTUATORS. B, CHEMICAL, vol. 111, p. 317-322, ISSN: 0925-4005, doi: 10.1016/j.snb.2005.06.030
- Maly J, Krejci J, Ilie M, Jakubka L, Masojidek J, Pilloton R, Sameh K, Steffan P, Stryhal Z, Sugiura M (2005). Monolayers of photosystem II on gold electrodes with enhanced sensor response - effect of porosity and protein layer arrangement. ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol. 381, p. 1558-1567, ISSN: 1618-2642, doi: 10.1007/s00216-005-3149-9
- Maly J, Masojidek J, Masci A, Ilie M, Cianci E, Foglietti V, Vastarella W, Pilloton R (2005). Direct mediatorless electron transport between the monolayer of photosystem II and poly (mercapto-p-benzoquinone) modified gold electrode-new design of biosensor for herbicide detection. BIOSENSORS & BIOELECTRONICS, vol. 21, p. 923-932, ISSN: 0956-5663, doi: 10.1016/j.bios.2005.02.013
- Montereali MR, Vastarella W, Della Seta L, Pilloton R (2005). Tyrosinase biosensor based on modified screen printed electrodes: measurements of total phenol content. INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol. 85, p. 795-806, ISSN: 0306-7319, doi: 10.1080/03067310500149775
- Pilloton R (2005). Proceedings of the 6th Workshop on Biosensors and BioAnalytical mu-Techniques in Environmental and Clinical Analysis, October 8-12, 2004, ENEA, Rome, Italy. Preface. INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol. 85, p. 585-587, ISSN: 0306-7319, doi: 10.1080/03067310500145997
- Boni A, Cremisini C, Magaro E, Tosi M, Vastarella W, Pilloton R (2004). Optimized biosensors based on purified enzymes and engineered yeasts: Detection of inhibitors of cholinesterases on grapes. ANALYTICAL LETTERS, vol. 37, p. 1683-1699, ISSN: 0003-2719, doi: 10.1081/AL-120037596
- Di Meo C, Della Seta L, De Francesco M, Masci A, Pinto V, Volpe A, Pilloton R (2004). Reversible immobilisation of engineered molecules by Ni-NTA chelators. BIOELECTROCHEMISTRY, p. 64-69, ISSN: 1567-5394, doi: 10.1142/9789812702944_0008
- Maly J, Di Meo C, De Francesco M, Masci A, Masojidek J, Sugiura M, Volpe A, Pilloton R (2004). Reversible immobilization of engineered molecules by Ni-NTA chelators. BIOELECTROCHEMISTRY, vol. 63, p. 271-275, ISSN: 1567-5394, doi: 10.1016/j.bioelechem.2003.10.024
- Maly J, Masci A, Masojidek J, Sugiura M, Pilloton R (2004). Monolayers of natural and recombinant photosystem II on gold electrodes - Potentials for use as biosensors for detection of herbicides. ANALYTICAL LETTERS, vol. 37, p. 1645-1656, ISSN: 0003-2719, doi: 10.1081/AL-120037593
- Mazzei F, Botre F, Montilla S, Pilloton R, Podesta E, Botre C (2004). Alkaline phosphatase inhibition based electrochemical sensors for the detection of pesticides.

JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol. 574, p. 95-100, ISSN: 1572-6657, doi: 10.1016/j.jelechem.2004.08.004

- Timur S, Della Seta L, Pazarlioglu N, Pilloton R, Telefoncu A (2004). Screen printed graphite biosensors based on bacterial cells. *PROCESS BIOCHEMISTRY*, vol. 39, p. 1325-1329, ISSN: 1359-5113, doi: 10.1016/S0032-9592(03)00265-6
- Timur S, Pazarlioglu N, Pilloton R, Telefoncu A (2004). Thick film sensors based on laccases from different sources immobilized in polyaniline matrix. *SENSORS AND ACTUATORS. B, CHEMICAL*, vol. 97, p. 132-136, ISSN: 0925-4005, doi: 10.1016/j.snb.2003.07.018
- Timur S, Pazarlioglu N, Pilloton R, Telefoncu A (2003). Detection of phenolic compounds by thick film sensors based on *Pseudomonas putida*. *TALANTA*, vol. 61, p. 87-93, ISSN: 0039-9140, doi: 10.1016/S0039-9140(03)00237-6
- Koblizek M, Maly J, Masojidek J, Komenda J, Kucera T, Giardi MT, Mattoo AK, Pilloton R (2002). A biosensor for the detection of triazine and phenylurea herbicides designed using Photosystem II coupled to a screen-printed electrode. *BIOTECHNOLOGY AND BIOENGINEERING*, vol. 78, p. 110-116, ISSN: 0006-3592, doi: 10.1002/bit.10190
- Maly J, Illiano E, Sabato M, De Francesco M, Pinto V, Masci A, Masci D, Masojidek J, Sugiura M, Franconi R, Pilloton R (2002). Immobilisation of engineered molecules on electrodes and optical surfaces. *MATERIALS SCIENCE AND ENGINEERING. C, BIOMIMETIC MATERIALS, SENSORS AND SYSTEMS*, vol. 22, p. 257-261, ISSN: 0928-4931, doi: 10.1016/S0928-4931(02)00177-7
- Koblizek M, Masojidek J, Komenda J, Kucera T, Pilloton R, Mattoo AK, Giardi MT (1998). A sensitive photosystem II-based biosensor for detection of a class of herbicides. *BIOTECHNOLOGY AND BIOENGINEERING*, vol. 60, p. 664-669, ISSN: 0006-3592, doi: 10.1002/(SICI)1097-0290(19981220)60:6<664::AID-BIT3>3.0.CO;2-B
- DiFabrizio E, Gentili M, Morales P, Pilloton R, Mela J, Santucci S, Sese A (1996). Microlithographic techniques for laser assisted fabrication of bioelectronic devices. *APPLIED PHYSICS LETTERS*, vol. 69, p. 3280-3282, ISSN: 0003-6951, doi: 10.1063/1.117310
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- CANOFENI S, DISARIO S, MELA J, PILLOTON R (1994). COMPARISON OF IMMOBILIZATION PROCEDURES FOR DEVELOPMENT OF AN ELECTROCHEMICAL PPO-BASED BIOSENSOR FOR ON LINE MONITORING OF A DEPURATION PROCESS. *ANALYTICAL LETTERS*, vol. 27, p. 1659-1669, ISSN: 0003-2719
- PILLOTON R, MIGNOGNA G, FORTUNATO A (1994). ENTIRELY AUTOMATED GLUCOSE MONITORING-SYSTEM BASED ON A FLOW-INJECTION ANALYSIS APPARATUS. *ANALYTICAL LETTERS*, vol. 27, p. 833-848, ISSN: 0003-2719
- PALLESCHI G, LAVAGNINI MG, MOSCONE D, PILLOTON R, DOTTAVIO D, EVANGELISTI ME (1990). DETERMINATION OF SERUM-CHOLINESTERASE ACTIVITY AND DIBUCAINE NUMBERS BY AN AMPEROMETRIC CHOLINE SENSOR. *BIOSENSORS & BIOELECTRONICS*, vol. 5, p. 27-35, ISSN: 0956-5663, doi: 10.1016/0956-5663(90)80024-8
- PILLOTON R, MASCINI M (1990). FLOW-ANALYSIS OF LACTOSE AND GLUCOSE IN MILK WITH AN IMPROVED ELECTROCHEMICAL BIOSENSOR. *FOOD CHEMISTRY*, vol. 36, p. 213-222, ISSN: 0308-8146, doi: 10.1016/0308-8146(90)90056-A

- MASCINI M, PIZZICHINI M, MOSCONE D, PILLOTON R (1989). ON-LINE DETERMINATION OF GLUCOSE PRODUCED BY HYDROLYSIS OF CELLOBIOSE REALIZED WITH A CELLULAR BIOREACTOR. BIOTECHNOLOGY AND BIOENGINEERING, vol. 34, p. 262-264, ISSN: 0006-3592, doi: 10.1002/bit.260340215
- PILLOTON R, NWOSU T N, MASCINI M (1988). AMPEROMETRIC DETERMINATION OF LACTIC ACID APPLICATIONS ON MILK SAMPLES. ANALYTICAL LETTERS, vol. 21, p. 727-740, ISSN: 0003-2719
- MASCINI M, MOSCONE D, PILLOTON R (1987). PYRUVATE AND LACTATE ELECTROCHEMICAL SENSORS REALIZED WITH IMMOBILIZED ENZYMES FOR CONTROL IN ARTIFICIAL PANCREAS. ANNALI DI CHIMICA, vol. 77, p. 813-824, ISSN: 0003-4592
- PILLOTON R, MASCINI M, CASELLA I G, FESTA M R, BOTTARI E (1987). LACTOSE DETERMINATION IN RAW MILK WITH A TWO-ENZYME BASED ELECTROCHEMICAL SENSOR. ANALYTICAL LETTERS, vol. 20, p. 1803-1814, ISSN: 0003-2719
- M. Mascini, M.A. Mateescu, R. Pilloton: Polyvinylalcohol-collagen membranes for enzyme immobilization. Journal of electroanalytical chemistry 08/1986; 212(Bioelectrochemistry and Bioenergetics):149-157., DOI:10.1016/0302-4598(86)80053-8
- G. Palleschi, R. Pilloton, M. Mascini, L. Bernardi, A. De Luca, P. Zeppilli: Biosensor applications in Medicine by continuous monitoring of metabolites.