

# Roberto Pilloton

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,729  
citations

257101

24  
h-index

276539

41  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1973  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the use of free and immobilised acetylcholinesterase for paraoxon detection with an amperometric choline oxidase based biosensor. <i>Analytica Chimica Acta</i> , 1995, 311, 273-280.	2.6	121
2	A biosensor for the detection of triazine and phenylurea herbicides designed using Photosystem II coupled to a screen-printed electrode. <i>Biotechnology and Bioengineering</i> , 2002, 78, 110-116.	1.7	105
3	Point of care detection of COVID-19: Advancement in biosensing and diagnostic methods. <i>Chemical Engineering Journal</i> , 2021, 414, 128759.	6.6	100
4	A disposable Laccase-Tyrosinase based biosensor for amperometric detection of phenolic compounds in must and wine. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 64, 189-194.	1.8	99
5	Thick film sensors based on laccases from different sources immobilized in polyaniline matrix. <i>Sensors and Actuators B: Chemical</i> , 2004, 97, 132-136.	4.0	79
6	Alkaline phosphatase inhibition based electrochemical sensors for the detection of pesticides. <i>Journal of Electroanalytical Chemistry</i> , 2004, 574, 95-100.	1.9	78
7	A sensitive photosystem II-based biosensor for detection of a class of herbicides. <i>Biotechnology and Bioengineering</i> , 1998, 60, 664-669.	1.7	77
8	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. <i>Biosensors and Bioelectronics</i> , 2005, 21, 923-932.	5.3	76
9	Comparison of Immobilisation Procedures for Development of an Electrochemical PPO-Based Biosensor for on Line Monitoring of a Depuration Process. <i>Analytical Letters</i> , 1994, 27, 1659-1669.	1.0	66
10	Detection of phenolic compounds by thick film sensors based on <i>Pseudomonas putida</i> . <i>Talanta</i> , 2003, 61, 87-93.	2.9	64
11	Monolayers of photosystem II on gold electrodes with enhanced sensor response—effect of porosity and protein layer arrangement. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 1558-1567.	1.9	51
12	A highly sensitive impedimetric label free immunosensor for Ochratoxin measurement in cocoa beans. <i>Food Chemistry</i> , 2016, 212, 688-694.	4.2	50
13	A new label-free impedimetric aptasensor for gluten detection. <i>Food Control</i> , 2017, 79, 200-206.	2.8	46
14	A novel impedimetric biosensor based on the antimicrobial activity of the peptide nisin for the detection of <i>Salmonella</i> spp.. <i>Food Chemistry</i> , 2020, 325, 126868.	4.2	45
15	Screen printed graphite biosensors based on bacterial cells. <i>Process Biochemistry</i> , 2004, 39, 1325-1329.	1.8	36
16	Lactose Determination in Raw Milk with a Two-Enzyme Based Electrochemical Sensor. <i>Analytical Letters</i> , 1987, 20, 1803-1814.	1.0	35
17	Determination of phenolic acids using <i>Trametes versicolor</i> laccase. <i>Talanta</i> , 2007, 71, 312-317.	2.9	35
18	A New Label-Free Impedimetric Affinity Sensor Based on Cholinesterases for Detection of Organophosphorous and Carbamic Pesticides in Food Samples: Impedimetric Versus Amperometric Detection. <i>Food and Bioprocess Technology</i> , 2017, 10, 1834-1843.	2.6	35

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19	Impedimetric Label-Free Immunosensor on Disposable Modified Screen-Printed Electrodes for Ochratoxin A. <i>Biosensors</i> , 2016, 6, 33.	2.3	34
20	Sensitive Detection of Escherichia coli O157:H7 in Food Products by Impedimetric Immunosensors. <i>Sensors</i> , 2018, 18, 2168.	2.1	33
21	Label-free impedimetric biosensors for the control of food safety – a review. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 468-491.	1.8	30
22	Reversible immobilization of engineered molecules by Ni-NTA chelators. <i>Bioelectrochemistry</i> , 2004, 63, 271-275.	2.4	29
23	Development of MoSe <sub>2</sub> Nano-Urchins as a Sensing Platform for a Selective Bio-Capturing of Escherichia. coli Shiga Toxin DNA. <i>Biosensors</i> , 2018, 8, 77.	2.3	28
24	Amperometric Determination of Lactic Acid. Applications on Milk Samples. <i>Analytical Letters</i> , 1988, 21, 727-740.	1.0	27
25	Optimisation of Glucose Biosensors Based on Sol-Gel Entrapment and Prussian Blue-Modified Screen-Printed Electrodes for Real Food Analysis. <i>Food Analytical Methods</i> , 2014, 7, 1002-1008.	1.3	23
26	Flow analysis of lactose and glucose in milk with an improved electrochemical biosensor. <i>Food Chemistry</i> , 1990, 36, 213-222.	4.2	22
27	Immobilisation of engineered molecules on electrodes and optical surfaces. <i>Materials Science and Engineering C</i> , 2002, 22, 257-261.	3.8	22
28	Graphitic Carbon Nitride as an Amplification Platform on an Electrochemical Paper-Based Device for the Detection of Norovirus-Specific DNA. <i>Sensors</i> , 2020, 20, 2070.	2.1	22
29	Paper-Based Electrodes Conjugated with Tungsten Disulfide Nanostructure and Aptamer for Impedimetric Detection of <i>Listeria monocytogenes</i> . <i>Biosensors</i> , 2022, 12, 88.	2.3	21
30	In-line determination of metabolites and milk components with electrochemical biosensors. <i>Analytica Chimica Acta</i> , 1988, 213, 101-111.	2.6	18
31	Tyrosinase biosensor based on modified screen printed electrodes: measurements of total phenol content. <i>International Journal of Environmental Analytical Chemistry</i> , 2005, 85, 795-806.	1.8	17
32	ZnO nanowires strips growth: Template reliability and morphology study. <i>Microelectronic Engineering</i> , 2014, 121, 147-152.	1.1	17
33	State of the Art in Smart Portable, Wearable, Ingestible and Implantable Devices for Health Status Monitoring and Disease Management. <i>Sensors</i> , 2022, 22, 4228.	2.1	17
34	Biosensors based on gold nanoelectrode ensembles and screen printed electrodes. <i>International Journal of Environmental Analytical Chemistry</i> , 2007, 87, 701-714.	1.8	15
35	Polyvinylalcohol-collagen membranes for enzyme immobilization. <i>Bioelectrochemistry</i> , 1986, 16, 149-157.	1.0	13
36	Monolayers of Natural and Recombinant Photosystem II on Gold Electrodes – Potentials for Use as Biosensors for Detection of Herbicides. <i>Analytical Letters</i> , 2004, 37, 1645-1656.	1.0	12

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37	Fabrication of SrTiO <sub>3</sub> Layer on Pt Electrode for Label-Free Capacitive Biosensors. <i>Biosensors</i> , 2018, 8, 26.	2.3	12
38	Analytical methods for detection of human cytomegalovirus clinched biosensor a cutting-edge diagnostic tool. <i>Biomedical Engineering Advances</i> , 2021, 1, 100006.	2.2	12
39	Determination of serum cholinesterase activity and dibucaine numbers by an amperometric choline sensor. <i>Biosensors and Bioelectronics</i> , 1990, 5, 27-35.	5.3	11
40	Optimized Biosensors Based on Purified Enzymes and Engineered Yeasts: Detection of Inhibitors of Cholinesterases on Grapes. <i>Analytical Letters</i> , 2004, 37, 1683-1699.	1.0	11
41	<i>Pseudomonas putida</i> Based Amperometric Biosensors for 2,4-D Detection. <i>Preparative Biochemistry and Biotechnology</i> , 2008, 39, 11-19.	1.0	11
42	A Doped Polyaniline Modified Electrode Amperometric Biosensor for Gluconic Acid Determination in Grapes. <i>Sensors</i> , 2014, 14, 11097-11109.	2.1	11
43	Microlithographic techniques for laser assisted fabrication of bioelectronic devices. <i>Applied Physics Letters</i> , 1996, 69, 3280-3282.	1.5	9
44	Colorimetric biosensor for the naked-eye detection of ovarian cancer biomarker PDGF using citrate modified gold nanoparticles. <i>Biosensors and Bioelectronics: X</i> , 2022, 11, 100142.	0.9	9
45	Laccase Biosensors Based on Mercury Thin Film Electrode. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2005, 33, 447-456.	0.9	7
46	Evolving techniques for the detection of <i>Listeria monocytogenes</i> : underlining the electrochemical approach. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 507-523.	1.8	7
47	Continuous flow micro-cell for electrochemical addressing of engineered bio-molecules. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 317-322.	4.0	6
48	Rapid Detection of Deoxynivalenol in Dry Pasta Using a Label-Free Immunosensor. <i>Biosensors</i> , 2022, 12, 240.	2.3	6
49	Construction and Comparison of <i>Trametes versicolor</i> Laccase Biosensors Capable of Detecting Xenobiotics. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2010, 38, 192-199.	0.9	5
50	Entirely Automated Glucose Monitoring System Based On A Flow Injection Analysis Apparatus. <i>Analytical Letters</i> , 1994, 27, 833-848.	1.0	4
51	A preliminary study on electrochemical biosensors for the determination of total cholinesterase inhibitors in strawberries. <i>International Journal of Environmental Analytical Chemistry</i> , 2007, 87, 689-699.	1.8	4
52	On-line determination of glucose produced by hydrolysis of cellobiose realized with a cellular bioreactor. <i>Biotechnology and Bioengineering</i> , 1989, 34, 262-264.	1.7	1
53	Integration Between Template-Based Nanostructured Surfaces and Biosensors. , 0, , 377-419.		1
54	Developing a miniaturized continuous flow electrochemical cell for biosensor applications. , 2009, , .		1

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55	Engineering a continuous flow electrochemical micro-cell for biosensor applications: new achievements. International Journal of Environmental Analytical Chemistry, 2010, 90, 31-39.	1.8	1
56	Impedimetric label - free immunosensor for rapid detection of Ochratoxin A in beer and wine. , 2020, , .		1
57	DISPOSABLE SCREEN PRINTED POTENTIOMETRIC SENSORS FOR DETERMINATION OF FREE RADICALS. , 2002, , .		1
58	A SCREEN-PRINTED ENZYMATIC ELECTRODE FOR THE DETERMINATION OF ORGANO-PHOSPHOROUS PESTICIDES. , 2004, , .		0
59	SCREEN PRINTED $\hat{1}/4$ -ELECTRODES FOR PHOTOCHEMICAL APPLICATIONS. , 2000, , .		0
60	OXIDIZED CARBON POWDER FOR ENZYME IMMOBILIZATION ON SCREEN PRINTED BIOSENSORS. , 2002, , .		0
61	A NEW LAYOUT FOR SCREEN-PRINTED ELECTRODES: FRONT/BACK GEOMETRY. , 2002, , .		0
62	SCREEN PRINTED BIOSENSORS BASED ON OXYGEN SENSING: USE OF PERM SELECTIVE MEMBRANES. , 2004, , .		0