

# Maria Rachele Guascito

## List of Publications by Citations

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78  
papers

2,172  
citations

28  
h-index

45  
g-index

81  
ext. papers

2,344  
ext. citations

4.5  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
78	A new amperometric nanostructured sensor for the analytical determination of hydrogen peroxide. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 24, 1063-9	11.8	178
77	Voltammetric and XPS investigations of nickel hydroxide electrochemically dispersed on gold surface electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 462, 202-210	4.1	140
76	Characterisation and source apportionment of PM10 in an urban background site in Lecce. <i>Atmospheric Research</i> , <b>2010</b> , 95, 40-54	5.4	111
75	Electropolymerization of pyrrole on titanium substrates for the future development of new biocompatible surfaces. <i>Biomaterials</i> , <b>2001</b> , 22, 2609-16	15.6	93
74	A novel nonenzymatic amperometric hydrogen peroxide sensor based on CuO@Cu <sub>2</sub> O nanowires embedded into poly(vinyl alcohol). <i>Talanta</i> , <b>2016</b> , 147, 124-31	6.2	92
73	Electrocatalysis of ascorbic acid on the glassy carbon electrode chemically modified with polyaniline films. <i>Electroanalysis</i> , <b>1997</b> , 9, 1381-1386	3	88
72	Heavy metal determination by biosensors based on enzyme immobilised by electropolymerisation. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 1643-7	11.8	86
71	Source apportionment of size-segregated atmospheric particles based on the major water-soluble components in Lecce (Italy). <i>Science of the Total Environment</i> , <b>2014</b> , 472, 248-61	10.2	85
70	Inhibitive determination of metal ions by an amperometric glucose oxidase biosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 131, 394-402	8.5	85
69	TRMC, XPS, and EPR characterizations of polycrystalline TiO <sub>2</sub> porphyrin impregnated powders and their catalytic activity for 4-nitrophenol photodegradation in aqueous suspension. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 12347-52	3.4	80
68	Anodic electrodeposition of conducting cobalt oxyhydroxide films on a gold surface. XPS study and electrochemical behaviour in neutral and alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 476, 54-63	4.1	77
67	Influence of Saharan dust outbreaks and carbon content on oxidative potential of water-soluble fractions of PM <sub>2.5</sub> and PM <sub>10</sub> . <i>Atmospheric Environment</i> , <b>2017</b> , 163, 1-8	5.3	57
66	Highly-dispersed copper microparticles on the active gold substrate as an amperometric sensor for glucose. <i>Analytica Chimica Acta</i> , <b>1997</b> , 357, 63-71	6.6	53
65	Catalytic oxidation and flow detection of hydrazine compounds at a nafion/ruthenium(III) chemically modified electrode. <i>Analytica Chimica Acta</i> , <b>1997</b> , 354, 333-341	6.6	50
64	Electrochemical preparation of a composite gold/cobalt electrode and its electrocatalytic activity in alkaline medium. <i>Electrochimica Acta</i> , <b>1999</b> , 45, 1113-1120	6.7	48
63	Sulfide measurements by flow injection analysis and ion chromatography with electrochemical detection. <i>Analytica Chimica Acta</i> , <b>2000</b> , 409, 27-34	6.6	44
62	Low-potential sensitive H <sub>2</sub> O <sub>2</sub> detection based on composite micro tubular Te adsorbed on platinum electrode. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3562-9	11.8	43

61	Ag nanoparticles capped by a nontoxic polymer: Electrochemical and spectroscopic characterization of a novel nanomaterial for glucose detection. <i>Materials Science and Engineering C</i> , <b>2011</b> , 31, 606-611	8.3	41
60	Functional Enzymes in Nonaqueous Environment: The Case of Photosynthetic Reaction Centers in Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7768-7776	8.3	39
59	X-Ray Photoelectron Spectroscopy characterization of electrosynthesized poly(3-thiophene acetic acid) and its application in Molecularly Imprinted Polymers for atrazine. <i>Thin Solid Films</i> , <b>2010</b> , 518, 3705-3709	2.2	39
58	An XPS study of microporous and mesoporous titanasilicates. <i>Surface and Interface Analysis</i> , <b>2004</b> , 36, 1402-1412	1.5	38
57	Conducting polymer electrodes modified by metallic species for electrocatalytic purposes: Spectroscopic and microscopic characterization. <i>Materials Chemistry and Physics</i> , <b>1996</b> , 44, 17-24	4.4	37
56	Mediator-free amperometric glucose biosensor based on glucose oxidase entrapped in poly(vinyl alcohol) matrix. <i>Analyst, The</i> , <b>2011</b> , 136, 164-73	5	35
55	Amperometric non-enzymatic bimetallic glucose sensor based on platinum tellurium microtubes modified electrode. <i>Electrochemistry Communications</i> , <b>2012</b> , 22, 45-48	5.1	34
54	XPS surface chemical characterization of atmospheric particles of different sizes. <i>Atmospheric Environment</i> , <b>2015</b> , 116, 146-154	5.3	32
53	Te oxide nanowires as advanced materials for amperometric nonenzymatic hydrogen peroxide sensing. <i>Talanta</i> , <b>2013</b> , 115, 863-9	6.2	31
52	Functionalization of gold screen printed electrodes with bacterial photosynthetic reaction centers by laser printing technology for mediatorless herbicide biosensing. <i>Electrochemistry Communications</i> , <b>2016</b> , 64, 46-50	5.1	30
51	New insights from X-ray photoelectron spectroscopy into the chemistry of covalent enzyme immobilization, with glutamate dehydrogenase (GDH) on silicon dioxide as an example. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 146-52	4.4	29
50	Long-term characterisation of African dust advection in south-eastern Italy: Influence on fine and coarse particle concentrations, size distributions, and carbon content. <i>Atmospheric Research</i> , <b>2020</b> , 233, 104690	5.4	22
49	Electrocatalysis and amperometric detection of alditols and sugars at a goldnickel composite electrode in anion-exchange chromatography. <i>Analytica Chimica Acta</i> , <b>1999</b> , 398, 153-160	6.6	19
48	Room temperature facile synthesis of CuO nanostructures by resistive heating. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2014</b> , 60, 59-64	3	17
47	Characterization of the interface in rubber/silica composite materials. <i>Surface and Interface Analysis</i> , <b>2002</b> , 33, 850-861	1.5	17
46	Analysis by X-ray photoelectron spectroscopy of ruthenium stabilised polynuclear hexacyanometallate film electrodes. <i>Analytica Chimica Acta</i> , <b>2000</b> , 410, 143-152	6.6	17
45	QCM sensors for aqueous phenols based on active layers constituted by tetrapyrrolic macrocycle Langmuir films. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2009</b> , 13, 1129-1139	1.8	16
44	Lithium intercalation on amorphous V2O5 thin film, obtained by r.f. deposition, using in situ sample transfer for XPS analysis. <i>Surface and Interface Analysis</i> , <b>2003</b> , 35, 897-905	1.5	16

43	Substrate-related feature in the loss structure of contamination C 1s. <i>Surface and Interface Analysis</i> , <b>1999</b> , 27, 753-760	1.5	16
42	Copper nanoparticles/poly-3-methylthiophene composite: Synthesis, characterization and catalytic application to enzyme-less glucose detecting. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 184, 70-77	8.5	15
41	Inter-comparison of carbon content in PM and PM measured with two thermo-optical protocols on samples collected in a Mediterranean site. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 29334-29350	5.1	13
40	A new probe of bonding states in intermetallic compounds. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1999</b> , 79, 1109-1129		13
39	Screen-Printed Glucose Oxidase-Based Biosensor for Inhibitive Detection of Heavy Metal Ions in a Flow Injection System. <i>Sensor Letters</i> , <b>2009</b> , 7, 153-159	0.9	13
38	Modeling the microscopic electrical properties of thrombin binding aptamer (TBA) for label-free biosensors. <i>Nanotechnology</i> , <b>2017</b> , 28, 065502	3.4	12
37	Development and characterization of a novel bioactive polymer with antibacterial and lysozyme-like activity. <i>Biopolymers</i> , <b>2014</b> , 101, 461-70	2.2	12
36	An X-ray photoelectron study of valence charge in transition metal aluminides. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2000</b> , 80, 2425-2444		12
35	Electrooxidation of thiocyanate on the copper-modified gold electrode and its amperometric determination by ion chromatography. <i>Analyst, The</i> , <b>1998</b> , 123, 1359-63	5	12
34	Electrochemical and spectroscopic behavior of iron(III) porphyrazines in Langmuir-Schaefer films. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 11517-28	3.4	11
33	Correlation of Oxidative Potential with Ecotoxicological and Cytotoxicological Potential of PM10 at an Urban Background Site in Italy. <i>Atmosphere</i> , <b>2019</b> , 10, 733	2.7	11
32	Design and modelling of a photo-electrochemical transduction system based on solubilized photosynthetic reaction centres. <i>Electrochimica Acta</i> , <b>2019</b> , 293, 105-115	6.7	10
31	Characterization of hierarchical $\beta$ -MoO plates toward resistive heating synthesis: electrochemical activity of $\beta$ -MoO/Pt modified electrode toward methanol oxidation at neutral pH. <i>Nanotechnology</i> , <b>2017</b> , 28, 215601	3.4	9
30	Nickel-macrocycle interaction in nickel(II) porphyrins and porphyrazines bearing alkylthio $\beta$ -substituents: A combined DFT and XPS study. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2017</b> , 21, 371-380	1.8	9
29	Analysis of the x-ray photoelectron energy-loss background in silicides. <i>Surface and Interface Analysis</i> , <b>2001</b> , 31, 881-889	1.5	8
28	Improving 2D-organization of fullerene Langmuir-Schaefer thin films by interaction with cellulose nanocrystals. <i>Carbon</i> , <b>2020</b> , 167, 906-917	10.4	8
27	Combined analysis of enamelled and gilded glassware from Frederick II Castle at Melfi (Italy) to identify technology and raw materials. <i>X-Ray Spectrometry</i> , <b>2015</b> , 44, 191-200	0.9	7
26	An electrochemical cell for study by XPS of lithium intercalation in oxide films. <i>Surface and Interface Analysis</i> , <b>2002</b> , 34, 619-622	1.5	7

25	Photoelectrodes with Polydopamine Thin Films Incorporating a Bacterial Photoenzyme. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000140	6.4	6
24	Oxidative Potential, Cytotoxicity, and Intracellular Oxidative Stress Generating Capacity of PM10: A Case Study in South of Italy. <i>Atmosphere</i> , <b>2021</b> , 12, 464	2.7	6
23	The effect of XPS background removing method on the appraisal of Ti and Fe: The case of phlogopites and brookite. <i>American Mineralogist</i> , <b>2014</b> , 99, 139-148	2.9	5
22	Tools for the Development of Electrochemical Sensors: an EQCM Flow Cell with Flow Focusing. <i>Electroanalysis</i> , <b>2012</b> , 24, 790-797	3	5
21	Assessing the Quality of in Silico Produced Biomolecules: The Discovery of a New Conformer. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 1265-1273	3.4	5
20	Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl <sup>-</sup> complexing agent. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 131, 719-727	4.4	4
19	Phosphate Modified Screen Printed Electrodes by LIFT Treatment for Glucose Detection. <i>Biosensors</i> , <b>2018</b> , 8,	5.9	4
18	. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 11318-11322	4	3
17	Te Nanotubes Decorated with Pt Nanoparticles for Fuel Cell Applications. <i>Procedia Technology</i> , <b>2017</b> , 27, 193-194		3
16	Nanocellulose/Fullerene Hybrid Films Assembled at the Air/Water Interface as Promising Functional Materials for Photo-electrocatalysis. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
15	Chemical characterization of red cells from the black sea urchin by X-ray photoelectron spectroscopy.. <i>RSC Advances</i> , <b>2021</b> , 11, 27074-27083	3.7	2
14	Synthesis and Characterization of Te Nanotubes Decorated with Pt Nanoparticles for a Fuel Cell Anode/Cathode Working at a Neutral pH. <i>Catalysts</i> , <b>2019</b> , 9, 328	4	1
13	Synthesis, coordination chemistry, and physico-chemical properties of the 2-chloroethoxy-iron(III)(ethylthio) porphyrzine. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2013</b> , 17, 870-880	1.8	1
12	Development and characterization of a gold nanoparticles glassy carbon modified electrode for dithiotreitol (DTT) detection suitable to be applied for determination of atmospheric particulate oxidative potential.. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1206, 339556	6.6	1
11	Electrocatalytic Activity of βMoO <sub>3</sub> Plates Synthesized Through Resistive Heating Route. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 71-77	0.2	1
10	Electrochemical and Spectroscopic Characterization of Glucose Oxidase Immobilized in Polyvinyl Alcohol and Applications in Glucose Detection. <i>Lecture Notes in Electrical Engineering</i> , <b>2011</b> , 339-343	0.2	1
9	Development and Characterization of a Novel Antibacterial Material Based on GOx Immobilized in a PVA Film. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 189-193	0.2	1
8	Oxidative Potential of Atmospheric Aerosols. <i>Atmosphere</i> , <b>2021</b> , 12, 531	2.7	1

7	A Biological-Based Photovoltaic Electrochemical Cell: Modelling the Impedance Spectra. <i>Chemosensors</i> , <b>2020</b> , 8, 20	4	○
6	Nickel ion extracellular uptake by the phototrophic bacterium <i>Rhodobacter sphaeroides</i> : new insights from Langmuir modelling and X-ray photoelectron spectroscopic analysis. <i>Applied Surface Science</i> , <b>2022</b> , 593, 153385	6.7	○
5	Synthesis and characterization of large WO <sub>3</sub> sheets synthesized by resistive heating method. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 165, 134-141	4.4	
4	Modification of Gold Electrodes with Bacterial Reaction Centres Immobilized by Laser Induced Forward Transfer (LIFT) Technique for Amperometric Herbicide Detection. <i>Procedia Technology</i> , <b>2017</b> , 27, 195-196		
3	Thrombin Aptamer-Based Biosensors: A Model of the Electrical Response. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 115-122	0.2	
2	Spectroscopic Characterization of a New Antibacterial Material for Sensing Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 159-164	0.2	
1	Development and Spectroscopic Characterization of TeO <sub>2</sub> -NWs for Amperometric Detection of H <sub>2</sub> O <sub>2</sub> . <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 465-469	0.2	