

Maria Rachele Guascito

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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> , 2022 , 1206, 339556 | 6.6 | 1 |
| 77 | 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> , 2022 , 593, 153385 | 6.7 | 0 |
| 76 | Oxidative Potential of Atmospheric Aerosols. <i>Atmosphere</i> , 2021 , 12, 531 | 2.7 | 1 |
| 75 | Oxidative Potential, Cytotoxicity, and Intracellular Oxidative Stress Generating Capacity of PM10: A Case Study in South of Italy. <i>Atmosphere</i> , 2021 , 12, 464 | 2.7 | 6 |
| 74 | Nanocellulose/Fullerene Hybrid Films Assembled at the Air/Water Interface as Promising Functional Materials for Photo-electrocatalysis. <i>Polymers</i> , 2021 , 13, | 4.5 | 3 |
| 73 | Chemical characterization of red cells from the black sea urchin by X-ray photoelectron spectroscopy.. <i>RSC Advances</i> , 2021 , 11, 27074-27083 | 3.7 | 2 |
| 72 | Photoelectrodes with Polydopamine Thin Films Incorporating a Bacterial Photoenzyme. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000140 | 6.4 | 6 |
| 71 | A Biological-Based Photovoltaic Electrochemical Cell: Modelling the Impedance Spectra. <i>Chemosensors</i> , 2020 , 8, 20 | 4 | 0 |
| 70 | 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> , 2020 , 233, 104690 | 5.4 | 22 |
| 69 | Improving 2D-organization of fullerene Langmuir-Schleifer thin films by interaction with cellulose nanocrystals. <i>Carbon</i> , 2020 , 167, 906-917 | 10.4 | 8 |
| 68 | Synthesis and Characterization of Te Nanotubes Decorated with Pt Nanoparticles for a Fuel Cell Anode/Cathode Working at a Neutral pH. <i>Catalysts</i> , 2019 , 9, 328 | 4 | 1 |
| 67 | 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> , 2019 , 26, 29334-29350 | 5.1 | 13 |
| 66 | . <i>IEEE Sensors Journal</i> , 2019 , 19, 11318-11322 | 4 | 3 |
| 65 | Correlation of Oxidative Potential with Ecotoxicological and Cytotoxicological Potential of PM10 at an Urban Background Site in Italy. <i>Atmosphere</i> , 2019 , 10, 733 | 2.7 | 11 |
| 64 | Assessing the Quality of in Silico Produced Biomolecules: The Discovery of a New Conformer. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1265-1273 | 3.4 | 5 |
| 63 | Design and modelling of a photo-electrochemical transduction system based on solubilized photosynthetic reaction centres. <i>Electrochimica Acta</i> , 2019 , 293, 105-115 | 6.7 | 10 |
| 62 | Electrocatalytic Activity of HMoO3 Plates Synthesized Through Resistive Heating Route. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 71-77 | 0.2 | 1 |

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| 61 | Thrombin Aptamer-Based Biosensors: A Model of the Electrical Response. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 115-122 | 0.2 | |
| 60 | Phosphate Modified Screen Printed Electrodes by LIFT Treatment for Glucose Detection. <i>Biosensors</i> , 2018 , 8, | 5.9 | 4 |
| 59 | Modeling the microscopic electrical properties of thrombin binding aptamer (TBA) for label-free biosensors. <i>Nanotechnology</i> , 2017 , 28, 065502 | 3.4 | 12 |
| 58 | Influence of Saharan dust outbreaks and carbon content on oxidative potential of water-soluble fractions of PM2.5 and PM10. <i>Atmospheric Environment</i> , 2017 , 163, 1-8 | 5.3 | 57 |
| 57 | Characterization of hierarchical β -MoO plates toward resistive heating synthesis: electrochemical activity of β -MoO/Pt modified electrode toward methanol oxidation at neutral pH. <i>Nanotechnology</i> , 2017 , 28, 215601 | 3.4 | 9 |
| 56 | Modification of Gold Electrodes with Bacterial Reaction Centres Immobilized by Laser Induced Forward Transfer (LIFT) Technique for Amperometric Herbicide Detection. <i>Procedia Technology</i> , 2017 , 27, 195-196 | | |
| 55 | Functional Enzymes in Nonaqueous Environment: The Case of Photosynthetic Reaction Centers in Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7768-7776 | 8.3 | 39 |
| 54 | Nickel-macrocycle interaction in nickel(II) porphyrins and porphyrazines bearing alkylthio β -substituents: A combined DFT and XPS study. <i>Journal of Porphyrins and Phthalocyanines</i> , 2017 , 21, 371-380 | 1.8 | 9 |
| 53 | Te Nanotubes Decorated with Pt Nanoparticles for Fuel Cell Applications. <i>Procedia Technology</i> , 2017 , 27, 193-194 | | 3 |
| 52 | A novel nonenzymatic amperometric hydrogen peroxide sensor based on CuO@Cu ₂ O nanowires embedded into poly(vinyl alcohol). <i>Talanta</i> , 2016 , 147, 124-31 | 6.2 | 92 |
| 51 | Functionalization of gold screen printed electrodes with bacterial photosynthetic reaction centers by laser printing technology for mediatorless herbicide biosensing. <i>Electrochemistry Communications</i> , 2016 , 64, 46-50 | 5.1 | 30 |
| 50 | XPS surface chemical characterization of atmospheric particles of different sizes. <i>Atmospheric Environment</i> , 2015 , 116, 146-154 | 5.3 | 32 |
| 49 | Synthesis and characterization of large WO ₃ sheets synthesized by resistive heating method. <i>Materials Chemistry and Physics</i> , 2015 , 165, 134-141 | 4.4 | |
| 48 | 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> , 2015 , 44, 191-200 | 0.9 | 7 |
| 47 | Source apportionment of size-segregated atmospheric particles based on the major water-soluble components in Lecce (Italy). <i>Science of the Total Environment</i> , 2014 , 472, 248-61 | 10.2 | 85 |
| 46 | Room temperature facile synthesis of CuO nanostructures by resistive heating. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 60, 59-64 | 3 | 17 |
| 45 | The effect of XPS background removing method on the appraisal of Ti and Fe: The case of phlogopites and brookite. <i>American Mineralogist</i> , 2014 , 99, 139-148 | 2.9 | 5 |
| 44 | Development and characterization of a novel bioactive polymer with antibacterial and lysozyme-like activity. <i>Biopolymers</i> , 2014 , 101, 461-70 | 2.2 | 12 |

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| 43 | Spectroscopic Characterization of a New Antibacterial Material for Sensing Applications. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 159-164 | 0.2 | |
| 42 | Development and Spectroscopic Characterization of TeO ₂ -NWs for Amperometric Detection of H ₂ O ₂ . <i>Lecture Notes in Electrical Engineering</i> , 2014 , 465-469 | 0.2 | |
| 41 | Development and Characterization of a Novel Antibacterial Material Based on GOx Immobilized in a PVA Film. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 189-193 | 0.2 | 1 |
| 40 | Copper nanoparticles/poly-3-methylthiophene composite: Synthesis, characterization and catalytic application to enzyme-less glucose detecting. <i>Sensors and Actuators B: Chemical</i> , 2013 , 184, 70-77 | 8.5 | 15 |
| 39 | Te oxide nanowires as advanced materials for amperometric nonenzymatic hydrogen peroxide sensing. <i>Talanta</i> , 2013 , 115, 863-9 | 6.2 | 31 |
| 38 | Synthesis, coordination chemistry, and physico-chemical properties of the 2-chloroethoxy-iron(III)(ethylthio) porphyrzine. <i>Journal of Porphyrins and Phthalocyanines</i> , 2013 , 17, 870-880 | 1.8 | 1 |
| 37 | Nucleation and growth of copper particles on Pt and Pt/poly-3-methylthiophene modified electrode in presence of Cl ⁻ complexing agent. <i>Materials Chemistry and Physics</i> , 2012 , 131, 719-727 | 4.4 | 4 |
| 36 | Amperometric non-enzymatic bimetallic glucose sensor based on platinum tellurium microtubes modified electrode. <i>Electrochemistry Communications</i> , 2012 , 22, 45-48 | 5.1 | 34 |
| 35 | Tools for the Development of Electrochemical Sensors: an EQCM Flow Cell with Flow Focusing. <i>Electroanalysis</i> , 2012 , 24, 790-797 | 3 | 5 |
| 34 | Mediator-free amperometric glucose biosensor based on glucose oxidase entrapped in poly(vinyl alcohol) matrix. <i>Analyst, The</i> , 2011 , 136, 164-73 | 5 | 35 |
| 33 | Low-potential sensitive H ₂ O ₂ detection based on composite micro tubular Te adsorbed on platinum electrode. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3562-9 | 11.8 | 43 |
| 32 | 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> , 2011 , 31, 606-611 | 8.3 | 41 |
| 31 | Electrochemical and Spectroscopic Characterization of Glucose Oxidase Immobilized in Polyvinyl Alcohol and Applications in Glucose Detection. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 339-343 | 0.2 | 1 |
| 30 | Characterisation and source apportionment of PM ₁₀ in an urban background site in Lecce. <i>Atmospheric Research</i> , 2010 , 95, 40-54 | 5.4 | 111 |
| 29 | 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> , 2010 , 518, 3705-3709 | 2.2 | 39 |
| 28 | QCM sensors for aqueous phenols based on active layers constituted by tetrapyrrolic macrocycle Langmuir films. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009 , 13, 1129-1139 | 1.8 | 16 |
| 27 | Screen-Printed Glucose Oxidase-Based Biosensor for Inhibitive Detection of Heavy Metal Ions in a Flow Injection System. <i>Sensor Letters</i> , 2009 , 7, 153-159 | 0.9 | 13 |
| 26 | Electrochemical and spectroscopic behavior of iron(III) porphyrzines in Langmuir-Schafer films. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11517-28 | 3.4 | 11 |

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| 25 | Inhibitive determination of metal ions by an amperometric glucose oxidase biosensor. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 394-402 | 8.5 | 85 |
| 24 | A new amperometric nanostructured sensor for the analytical determination of hydrogen peroxide. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 1063-9 | 11.8 | 178 |
| 23 | 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> , 2006 , 385, 146-52 | 4.4 | 29 |
| 22 | TRMC, XPS, and EPR characterizations of polycrystalline TiO ₂ porphyrin impregnated powders and their catalytic activity for 4-nitrophenol photodegradation in aqueous suspension. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12347-52 | 3.4 | 80 |
| 21 | Heavy metal determination by biosensors based on enzyme immobilised by electropolymerisation. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1643-7 | 11.8 | 86 |
| 20 | An XPS study of microporous and mesoporous titanasilicates. <i>Surface and Interface Analysis</i> , 2004 , 36, 1402-1412 | 1.5 | 38 |
| 19 | Lithium intercalation on amorphous V ₂ O ₅ thin film, obtained by r.f. deposition, using in situ sample transfer for XPS analysis. <i>Surface and Interface Analysis</i> , 2003 , 35, 897-905 | 1.5 | 16 |
| 18 | An electrochemical cell for study by XPS of lithium intercalation in oxide films. <i>Surface and Interface Analysis</i> , 2002 , 34, 619-622 | 1.5 | 7 |
| 17 | Characterization of the interface in rubber/silica composite materials. <i>Surface and Interface Analysis</i> , 2002 , 33, 850-861 | 1.5 | 17 |
| 16 | Analysis of the x-ray photoelectron energy-loss background in silicides. <i>Surface and Interface Analysis</i> , 2001 , 31, 881-889 | 1.5 | 8 |
| 15 | Electropolymerization of pyrrole on titanium substrates for the future development of new biocompatible surfaces. <i>Biomaterials</i> , 2001 , 22, 2609-16 | 15.6 | 93 |
| 14 | 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> , 2000 , 80, 2425-2444 | | 12 |
| 13 | Sulfide measurements by flow injection analysis and ion chromatography with electrochemical detection. <i>Analytica Chimica Acta</i> , 2000 , 409, 27-34 | 6.6 | 44 |
| 12 | Analysis by X-ray photoelectron spectroscopy of ruthenium stabilised polynuclear hexacyanometallate film electrodes. <i>Analytica Chimica Acta</i> , 2000 , 410, 143-152 | 6.6 | 17 |
| 11 | Voltammetric and XPS investigations of nickel hydroxide electrochemically dispersed on gold surface electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 462, 202-210 | 4.1 | 140 |
| 10 | 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> , 1999 , 476, 54-63 | 4.1 | 77 |
| 9 | Electrochemical preparation of a composite gold-cobalt electrode and its electrocatalytic activity in alkaline medium. <i>Electrochimica Acta</i> , 1999 , 45, 1113-1120 | 6.7 | 48 |
| 8 | Electrocatalysis and amperometric detection of alditols and sugars at a gold-nickel composite electrode in anion-exchange chromatography. <i>Analytica Chimica Acta</i> , 1999 , 398, 153-160 | 6.6 | 19 |

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| 7 | Substrate-related feature in the loss structure of contamination C 1s. <i>Surface and Interface Analysis</i> , 1999 , 27, 753-760 | 1.5 | 16 |
| 6 | A new probe of bonding states in intermetallic compounds. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 1109-1129 | | 13 |
| 5 | Electrooxidation of thiocyanate on the copper-modified gold electrode and its amperometric determination by ion chromatography. <i>Analyst, The</i> , 1998 , 123, 1359-63 | 5 | 12 |
| 4 | Electrocatalysis of ascorbic acid on the glassy carbon electrode chemically modified with polyaniline films. <i>Electroanalysis</i> , 1997 , 9, 1381-1386 | 3 | 88 |
| 3 | Catalytic oxidation and flow detection of hydrazine compounds at a nafion/ruthenium(III) chemically modified electrode. <i>Analytica Chimica Acta</i> , 1997 , 354, 333-341 | 6.6 | 50 |
| 2 | Highly-dispersed copper microparticles on the active gold substrate as an amperometric sensor for glucose. <i>Analytica Chimica Acta</i> , 1997 , 357, 63-71 | 6.6 | 53 |
| 1 | Conducting polymer electrodes modified by metallic species for electrocatalytic purposes. Spectroscopic and microscopic characterization. <i>Materials Chemistry and Physics</i> , 1996 , 44, 17-24 | 4.4 | 37 |