

# Mariana Emilia Ghica

## 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.

57 papers	2,816 citations	31 h-index	52 g-index
58 ext. papers	3,119 ext. citations	5.2 avg, IF	5.56 L-index

#	Paper	IF	Citations
57	Novel Kevlar <sup>®</sup> pulp-reinforced alumina-silica aerogel composites for thermal insulation at high temperature. <i>Journal of Sol-Gel Science and Technology</i> , <b>2022</b> , 101, 87-102	2.3	0
56	Silica-based aerogel composites reinforced with different aramid fibres for thermal insulation in Space environments. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 13604-13619	4.3	5
55	Optimization of Polyamide Pulp-Reinforced Silica Aerogel Composites for Thermal Protection Systems. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
54	An overview on alumina-silica-based aerogels. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 282, 102189	4.3	20
53	Reinforcement Strategies of Silica Aerogels for Thermal Insulation Applications. <i>Proceedings (mdpi)</i> , <b>2020</b> , 57, 2	0.3	
52	Biotoxic trace metal ion detection by enzymatic inhibition of a glucose biosensor based on a poly(brilliant green)-deep eutectic solvent/carbon nanotube modified electrode. <i>Talanta</i> , <b>2020</b> , 208, 120427	6.2	21
51	A biocompatible redox MRI probe based on a Mn(ii)/Mn(iii) porphyrin. <i>Dalton Transactions</i> , <b>2019</b> , 48, 3249-3262	4.3	14
50	Novel nanocomposite film modified electrode based on poly(brilliant cresyl blue)-deep eutectic solvent/carbon nanotubes and its biosensing applications. <i>Electrochimica Acta</i> , <b>2019</b> , 317, 766-777	6.7	25
49	Electrochemical Sensor Based on Multi-walled Carbon Nanotube/Gold Nanoparticle Modified Glassy Carbon Electrode for Detection of Estradiol in Environmental Samples. <i>Electroanalysis</i> , <b>2019</b> , 31, 1925-1933	3	23
48	Synthesis, characterization and application of meso-substituted fluorinated boron dipyrromethenes (BODIPYs) with different styryl groups in organic photovoltaic cells. <i>Dyes and Pigments</i> , <b>2019</b> , 168, 103-110	4.6	18
47	Choline oxidase inhibition biosensor based on poly(brilliant cresyl blue) /deep eutectic solvent / carbon nanotube modified electrode for dichlorvos organophosphorus pesticide. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 298, 126862	8.5	27
46	Impedimetric sensor for tyramine based on gold nanoparticle doped-poly(8-anilino-1-naphthalene sulphonic acid) modified gold electrodes. <i>Talanta</i> , <b>2019</b> , 195, 604-612	6.2	20
45	Tyrosinase based amperometric biosensor for determination of tyramine in fermented food and beverages with gold nanoparticle doped poly(8-anilino-1-naphthalene sulphonic acid) modified electrode. <i>Food Chemistry</i> , <b>2019</b> , 282, 18-26	8.5	33
44	A novel amperometric enzyme inhibition biosensor based on xanthine oxidase immobilised onto glassy carbon electrodes for bisphenol A determination. <i>Talanta</i> , <b>2018</b> , 184, 388-393	6.2	17
43	Gold nanoparticle decorated multiwalled carbon nanotube modified electrodes for the electrochemical determination of theophylline. <i>Analytical Methods</i> , <b>2018</b> , 10, 5634-5642	3.2	23
42	A novel sensitive amperometric choline biosensor based on multiwalled carbon nanotubes and gold nanoparticles. <i>Talanta</i> , <b>2017</b> , 167, 462-469	6.2	46
41	Highly Sensitive Choline Oxidase Enzyme Inhibition Biosensor for Lead Ions Based on Multiwalled Carbon Nanotube Modified Glassy Carbon Electrodes. <i>Electroanalysis</i> , <b>2017</b> , 29, 1741-1748	3	12

40	Catalase based hydrogen peroxide biosensor for mercury determination by inhibition measurements. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 340, 344-350	12.8	32
39	Electrochemical sensor based on multiwalled carbon nanotube and gold nanoparticle modified electrode for the sensitive detection of bisphenol A. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 253, 513-522	8.5	133
38	Flavonoids electrochemical detection in fruit extracts and total antioxidant capacity evaluation. <i>Talanta</i> , <b>2016</b> , 154, 284-91	6.2	42
37	Electrochemical sensors and biosensors based on redox polymer/carbon nanotube modified electrodes: a review. <i>Analytica Chimica Acta</i> , <b>2015</b> , 881, 1-23	6.6	254
36	Carbon-Based Electrodes for Sensitive Electroanalytical Determination of Aminonaphthalenes. <i>Electroanalysis</i> , <b>2015</b> , 27, 1556-1564	3	11
35	Poly(thionine)-carbon nanotube modified carbon film electrodes and application to the simultaneous determination of acetaminophen and dipyrone. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 2869-2881	2.6	25
34	Comparison of Cobalt Hexacyanoferrate and Poly(Neutral Red) Modified Carbon Film Electrodes for the Amperometric Detection of Heavy Metals Based on Glucose Oxidase Enzyme Inhibition. <i>Analytical Letters</i> , <b>2015</b> , 48, 659-671	2.2	6
33	Poly(neutral red) based hydrogen peroxide biosensor for chromium determination by inhibition measurements. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 279, 348-55	12.8	38
32	Poly(brilliant green) and poly(thionine) modified carbon nanotube coated carbon film electrodes for glucose and uric acid biosensors. <i>Talanta</i> , <b>2014</b> , 130, 198-206	6.2	35
31	Design of a new hypoxanthine biosensor: xanthine oxidase modified carbon film and multi-walled carbon nanotube/carbon film electrodes. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 3813-22	4.4	33
30	Simple and Efficient Epinephrine Sensor Based on Carbon Nanotube Modified Carbon Film Electrodes. <i>Analytical Letters</i> , <b>2013</b> , 46, 1379-1393	2.2	46
29	Glucose oxidase enzyme inhibition sensors for heavy metals at carbon film electrodes modified with cobalt or copper hexacyanoferrate. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 178, 270-278	8.5	61
28	Synthesis, characterization and influence of poly(brilliant green) on the performance of different electrode architectures based on carbon nanotubes and poly(3,4-ethylenedioxythiophene). <i>Electrochimica Acta</i> , <b>2013</b> , 98, 199-207	6.7	17
27	A novel amperometric sensor for ascorbic acid based on poly(Nile blue A) and functionalised multi-walled carbon nanotube modified electrodes. <i>Talanta</i> , <b>2013</b> , 111, 76-84	6.2	46
26	Poly(brilliant green)/carbon nanotube-modified carbon film electrodes and application as sensors. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 1571-1580	2.6	16
25	Poly(Neutral Red)/Cholesterol Oxidase Modified Carbon Film Electrode for Cholesterol Biosensing. <i>Electroanalysis</i> , <b>2012</b> , 24, 1547-1553	3	10
24	Electrochemical impedance study of self-assembled layer-by-layer iron(II) citrate/poly(ethylenimine) modified electrodes. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 7940-7945	6.7	30
23	Preparation and characterisation of poly(3,4-ethylenedioxythiophene) and poly(3,4-ethylenedioxythiophene)/poly(neutral red) modified carbon film electrodes, and application as sensors for hydrogen peroxide. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 3685-3692	6.7	33

22	Direct electron transfer of glucose oxidase at glassy carbon electrode modified with functionalized carbon nanotubes within a dihexadecylphosphate film. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 158, 411-417	8.5	78
21	Phenazines and Polyphenazines in Electrochemical Sensors and Biosensors. <i>Analytical Letters</i> , <b>2010</b> , 43, 1588-1608	2.2	93
20	Electrochemical impedance studies of chitosan-modified electrodes for application in electrochemical sensors and biosensors. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 6239-6247	6.7	143
19	The influence of carbon nanotubes and polyazine redox mediators on the performance of amperometric enzyme biosensors. <i>Mikrochimica Acta</i> , <b>2010</b> , 170, 257-265	5.8	18
18	Graphite-epoxy electrodes modified with functionalised carbon nanotubes and chitosan for the rapid electrochemical determination of dipyrone. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2010</b> , 13, 590-8	1.3	19
17	Application of functionalised carbon nanotubes immobilised into chitosan films in amperometric enzyme biosensors. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 142, 308-315	8.5	110
16	Poly(brilliant cresyl blue) modified glassy carbon electrodes: Electrosynthesis, characterisation and application in biosensors. <i>Journal of Electroanalytical Chemistry</i> , <b>2009</b> , 629, 35-42	4.1	56
15	Comparative study of different cross-linking agents for the immobilization of functionalized carbon nanotubes within a chitosan film supported on a graphite-epoxy composite electrode. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5364-72	7.8	83
14	Enzyme immobilisation on electroactive nanostructured membranes (ENM): optimised architectures for biosensing. <i>Talanta</i> , <b>2008</b> , 76, 922-8	6.2	48
13	Glucose oxidase inhibition in poly(neutral red) mediated enzyme biosensors for heavy metal determination. <i>Mikrochimica Acta</i> , <b>2008</b> , 163, 185-193	5.8	63
12	Electroactive Nanostructured Membranes (ENM): Synthesis and Electrochemical Properties of Redox Mediator-Modified Gold Nanoparticles Using a Dendrimer Layer-by-Layer Approach. <i>Electroanalysis</i> , <b>2007</b> , 19, 805-812	3	28
11	An improved biosensor for acetaldehyde determination using a bienzymatic strategy at poly(neutral red) modified carbon film electrodes. <i>Analytica Chimica Acta</i> , <b>2007</b> , 591, 80-6	6.6	54
10	Characterisation of poly(neutral red) modified carbon film electrodes; application as a redox mediator for biosensors. <i>Journal of Solid State Electrochemistry</i> , <b>2007</b> , 11, 899-908	2.6	72
9	Development of Novel Glucose and Pyruvate Biosensors at Poly(Neutral Red) Modified Carbon Film Electrodes. Application to Natural Samples. <i>Electroanalysis</i> , <b>2006</b> , 18, 748-756	3	80
8	Development and Applications of a Bienzymatic Amperometric Glycerol Biosensor Based on a Poly(Neutral Red) Modified Carbon Film Electrode. <i>Analytical Letters</i> , <b>2006</b> , 39, 1527-1542	2.2	32
7	A strategy for enzyme immobilization on layer-by-layer dendrimer-gold nanoparticle electrocatalytic membrane incorporating redox mediator. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 1665-1670	5.1	168
6	Carbon film electrodes for oxidase-based enzyme sensors in food analysis. <i>Talanta</i> , <b>2005</b> , 68, 171-8	6.2	29
5	A glucose biosensor using methyl viologen redox mediator on carbon film electrodes. <i>Analytica Chimica Acta</i> , <b>2005</b> , 532, 145-151	6.6	79

4	Electrochemical Oxidation of Rutin. <i>Electroanalysis</i> , <b>2005</b> , 17, 313-318	3	106
3	A new, improved sensor for ascorbate determination at copper hexacyanoferrate modified carbon film electrodes. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 381, 972-8	4.4	42
2	Development of a Carbon Film Electrode Ferrocene-Mediated Glucose Biosensor. <i>Analytical Letters</i> , <b>2005</b> , 38, 907-920	2.2	35
1	Electrochemical Oxidation of Quercetin. <i>Electroanalysis</i> , <b>2003</b> , 15, 1745-1750	3	205