

# Stela Maria Pruneanu

## 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.

80 papers	1,475 citations	21 h-index	35 g-index
83 ext. papers	1,746 ext. citations	4.4 avg, IF	4.88 L-index

#	Paper	IF	Citations
80	Nitrogen-Doped Graphene-Based Sensor for Electrochemical Detection of Piroxicam, a NSAID Drug for COVID-19 Patients. <i>Chemosensors</i> , <b>2022</b> , 10, 47	4	3
79	Structural and spectroscopic properties of gadolinium-lead-lead dioxide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2022</b> , 576, 121234	3.9	0
78	Stochastic microsensors based on modified graphene for pattern recognition of maspin in biological samples.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2022</b> , 1	4.4	0
77	Electrochemical L-Tyrosine Sensor Based on a Glassy Carbon Electrode Modified with Exfoliated Graphene. <i>Sensors</i> , <b>2022</b> , 22, 3606	3.8	1
76	Evaluation of N-doped graphene role in the visible-light driven photodegradation of sulfamethoxazole by a TiO <sub>2</sub> -silver-graphene composite. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 113701	4.7	0
75	Hydrothermal Synthesis of Nitrogen, Boron Co-Doped Graphene with Enhanced Electro-Catalytic Activity for Cymoxanil Detection. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
74	Sulphur Doped Graphenes Based 3D-Needle Stochastic Sensors as New Tools for Biomedical Analysis. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 037509	3.9	3
73	Nitrogen and Sulfur Co-Doped Graphene as Efficient Electrode Material for L-Cysteine Detection. <i>Chemosensors</i> , <b>2021</b> , 9, 146	4	4
72	Graphene-Gold Nanoparticles Nanozyme-Based Electrochemical Sensor with Enhanced Laccase-Like Activity for Determination of Phenolic Substrates. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 067523	3.9	5
71	Investigation of L-Tryptophan Electrochemical Oxidation with a Graphene-Modified Electrode. <i>Biosensors</i> , <b>2021</b> , 11,	5.9	2
70	Structural and optical properties of Eu <sup>3+</sup> ions in lead glass for photonic applications. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 569, 120988	3.9	2
69	Stochastic biosensors based on N- and S-doped graphene for the enantioanalysis of aspartic acid in biological samples.. <i>RSC Advances</i> , <b>2021</b> , 11, 23301-23309	3.7	3
68	Myoglobin-silver reduced graphene oxide nanocomposite stochastic biosensor for the determination of luteinizing hormone and follicle-stimulating hormone from saliva samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 5191-5202	4.4	6
67	Enantioanalysis of glutamine-a key factor in establishing the metabolomics process in gastric cancer. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 3199-3207	4.4	13
66	Nitrogen-Doped Graphene: The Influence of Doping Level on the Charge-Transfer Resistance and Apparent Heterogeneous Electron Transfer Rate. <i>Sensors</i> , <b>2020</b> , 20,	3.8	16
65	Stone Paper as a New Substrate to Fabricate Flexible Screen-Printed Electrodes for the Electrochemical Detection of Dopamine. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7
64	Green synthesis, characterization and potential application of reduced graphene oxide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 119, 113971	3	21

63	Review Recent Progress in the Graphene-Based Electrochemical Sensors and Biosensors. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 037528	3.9	50
62	Cytotoxicity mechanisms of nitrogen-doped graphene obtained by electrochemical exfoliation of graphite rods, on human endothelial and colon cancer cells. <i>Carbon</i> , <b>2020</b> , 158, 267-281	10.4	15
61	Enantioanalysis of tryptophan in whole blood samples using stochastic sensors-A screening test for gastric cancer. <i>Chirality</i> , <b>2020</b> , 32, 215-222	2.1	10
60	Needle stochastic sensors for on-site fast recognition and quantification of biomarkers for gastric cancer in biological samples. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 20203-20211	3.6	11
59	Sensing and Interaction of His-Tagged CA19-9 Antigen with Graphene-Modified Electrodes. <i>Chemosensors</i> , <b>2020</b> , 8, 112	4	3
58	Photocatalytic and Electrocatalytic Properties of NGr-ZnO Hybrid Materials. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
57	Detection of 8-Hydroxy-2'-Deoxyguanosine Biomarker with a Screen-Printed Electrode Modified with Graphene. <i>Sensors</i> , <b>2019</b> , 19,	3.8	5
56	A brief overview on synthesis and applications of graphene and graphene-based nanomaterials. <i>Frontiers of Materials Science</i> , <b>2019</b> , 13, 23-32	2.5	83
55	Electrochemical Determination of Bisphenol A in Saliva by a Novel Three-Dimensional (3D) Printed Gold-Reduced Graphene Oxide (rGO) Composite Paste Electrode. <i>Analytical Letters</i> , <b>2019</b> , 52, 2583-2606	2.2	18
54	Graphene-based materials produced by graphite electrochemical exfoliation in acidic solutions: Application to Sunset Yellow voltammetric detection. <i>Microchemical Journal</i> , <b>2019</b> , 147, 112-120	4.8	21
53	Graphene-based stochastic sensors for pattern recognition of gastric cancer biomarkers in biological fluids. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2019</b> , 23, 1365-1370	1.8	9
52	Voltammetric determination of bisphenol A with a silver-reduced graphene oxide composite paste microsensor <b>2019</b> ,		1
51	Exfoliation of graphite rods via pulses of current for graphene synthesis: Sensitive detection of 8-hydroxy-2'-Deoxyguanosine. <i>Talanta</i> , <b>2019</b> , 196, 182-190	6.2	20
50	Graphene/TiO <sub>2</sub> -Ag Based Composites Used as Sensitive Electrode Materials for Amaranth Electrochemical Detection and Degradation. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, B3054-B3059	2.9	10
49	Sensitive detection of pyoverdine with an electrochemical sensor based on electrochemically generated graphene functionalized with gold nanoparticles. <i>Bioelectrochemistry</i> , <b>2018</b> , 120, 94-103	5.6	19
48	Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy carbon modified electrode. <i>Nanotechnology</i> , <b>2018</b> , 29, 095501	3.4	11
47	Pattern recognition of 8-hydroxy-2'-Deoxyguanosine in biological fluids. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 115-121	4.4	12
46	Graphene-porphyrin composite synthesis through graphite exfoliation: The electrochemical sensing of catechol. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 256, 665-673	8.5	30

45	Green methodology for the preparation of chitosan/graphene nanomaterial through electrochemical exfoliation and its applicability in Sunset Yellow detection. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 578-589	6.7	37
44	Synthesis, morpho-structural properties and antibacterial effect of silicate-based composites containing graphene oxide/hydroxyapatite. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 217, 48-53	4.4	30
43	Electrochemical platform based on nitrogen-doped graphene/chitosan nanocomposite for selective Pb detection. <i>Nanotechnology</i> , <b>2017</b> , 28, 114001	3.4	24
42	Azo dyes degradation using TiO <sub>2</sub> -Pt/graphene oxide and TiO <sub>2</sub> -Pt/reduced graphene oxide photocatalysts under UV and natural sunlight irradiation. <i>Solid State Sciences</i> , <b>2017</b> , 70, 13-20	3.4	57
41	Multimode microsensors based on Ag/TiO <sub>2</sub> /graphene materials used for the molecular recognition of carcinoembryonic antigen in whole blood samples. <i>RSC Advances</i> , <b>2017</b> , 7, 28419-28426	3.7	6
40	Molecular Recognition of Colon Cancer Biomarkers: P53, KRAS and CEA in Whole Blood Samples. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, B443-B447	3.9	16
39	Molecular recognition of pyruvic acid and folic acid in whole blood. <i>RSC Advances</i> , <b>2017</b> , 7, 50072-50078	3.7	1
38	Cytotoxicity of methylcellulose-based films containing graphenes and curcumin on human lung fibroblasts. <i>Process Biochemistry</i> , <b>2017</b> , 52, 243-249	4.8	10
37	Charge transfer-resistance in nitrogen-doped/undoped graphene: Its influence on the electro-catalytic reduction of H <sub>2</sub> O <sub>2</sub> . <i>Electrochimica Acta</i> , <b>2016</b> , 220, 664-671	6.7	7
36	Simple and cost-effective synthesis of graphene by electrochemical exfoliation of graphite rods. <i>RSC Advances</i> , <b>2016</b> , 6, 2651-2661	3.7	86
35	The reductive amination of $\alpha$ -ketoisocaproic acid using a leucine dehydrogenase-modified gold electrode. <i>Particulate Science and Technology</i> , <b>2016</b> , 34, 96-102	2	1
34	Bio-Functionalized Metallic Nanoparticles with Applications in Medicine <b>2016</b> , 803-817		1
33	Graphene-bimetallic nanoparticle composites with enhanced electro-catalytic detection of bisphenol A. <i>Nanotechnology</i> , <b>2016</b> , 27, 484001	3.4	22
32	Photocatalytic performance of graphene/TiO <sub>2</sub> -Ag composites on amaranth dye degradation. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 179, 232-241	4.4	48
31	Electrochemical and spectroscopic studies of ssDNA damage induced by hydrogen peroxide using graphene based nanomaterials. <i>Talanta</i> , <b>2015</b> , 138, 209-217	6.2	6
30	Graphene based nanomaterials as chemical sensors for hydrogen peroxide: A comparison study of their intrinsic peroxidase catalytic behavior. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 213, 474-483	8.5	77
29	Cytotoxicity assessment of graphene-based nanomaterials on human dental follicle stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 136, 791-8	6	41
28	The influence of uric and ascorbic acid on the electrochemical detection of dopamine using graphene-modified electrodes. <i>Electrochimica Acta</i> , <b>2015</b> , 154, 197-204	6.7	79

27	The study of adenine and guanine electrochemical oxidation using electrodes modified with graphene-platinum nanoparticles composites. <i>Electrochimica Acta</i> , <b>2014</b> , 139, 386-393	6.7	19
26	Electrochemical oxidation of adenine using platinum electrodes modified with carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2014</b> , 59, 181-185	3	8
25	Direct electrochemical oxidation of S-captopril using gold electrodes modified with graphene-AuAg nanocomposites. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 1111-25	7.3	2
24	Single-Step Synthesis of Gold Nanowires Using Biomolecules as Capping Agent/Template: Applications for Tissue Engineering. <i>Particulate Science and Technology</i> , <b>2013</b> , 31, 658-662	2	9
23	Electro-catalytic properties of graphene composites containing gold or silver nanoparticles. <i>Electrochimica Acta</i> , <b>2013</b> , 89, 246-252	6.7	24
22	Modified gold electrodes based on thiocytosine/guanine-gold nanoparticles for uric and ascorbic acid determination. <i>Electrochimica Acta</i> , <b>2013</b> , 88, 839-846	6.7	19
21	Influence of chemical oxidation upon the electro-catalytic properties of graphene-gold nanoparticle composite. <i>Electrochimica Acta</i> , <b>2013</b> , 91, 137-143	6.7	16
20	Catalytic one-step synthesis of Pt-decorated few-layer graphenes. <i>RSC Advances</i> , <b>2013</b> , 3, 26391	3.7	16
19	Few-layer graphene sheets with embedded gold nanoparticles for electrochemical analysis of adenine. <i>International Journal of Nanomedicine</i> , <b>2013</b> , 8, 1429-38	7.3	34
18	Application in Electrochemistry of Graphene-Modified Electrodes. <i>Micro and Nanosystems</i> , <b>2013</b> , 5, 127-137	3.7	2
17	Structural and electrochemical characterization of novel leucine-gold nanoparticles modified electrode. <i>Electrochimica Acta</i> , <b>2012</b> , 63, 146-152	6.7	6
16	Novel multifunctional graphene sheets with encased Au/Ag nanoparticles for advanced electrochemical analysis of organic compounds. <i>ChemPhysChem</i> , <b>2012</b> , 13, 3632-9	3.2	19
15	Nanostructures based on metallic nanoparticles and biomolecules <b>2012</b> ,		2
14	Novel Graphene-Gold Nanoparticle Modified Electrodes for the High Sensitivity Electrochemical Spectroscopy Detection and Analysis of Carbamazepine. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 23387-23394	3.8	67
13	Electrochemical investigation of atenolol oxidation and detection by using a multicomponent nanostructural assembly of amino acids and gold nanoparticles. <i>Chemical Physics Letters</i> , <b>2011</b> , 504, 56-61	2.5	23
12	Manganese(III) porphyrin-based potentiometric sensors for diclofenac assay in pharmaceutical preparations. <i>Sensors</i> , <b>2010</b> , 10, 8850-64	3.8	32
11	Morphological and electrical characteristics of amino acid-AuNP nanostructured two-dimensional ensembles. <i>Chemical Physics</i> , <b>2010</b> , 373, 295-299	2.3	15
10	Template and template-free preparation of one-dimensional metallic nanostructures. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 3151-3159	4.3	16

9	Carbon and diamond paste microelectrodes based on Mn(III) porphyrins for the determination of dopamine. <i>Analytica Chimica Acta</i> , <b>2010</b> , 668, 201-7	6.6	15
8	Investigation of carbon nanofibers as support for bioactive substances. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20, 177-83	4.5	13
7	Templating Ag on DNA/polymer hybrid nanowires: Control of the metal growth morphology using functional monomers. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 550-553	5.1	46
6	A novel isotherm, modeling self-assembled monolayer adsorption and structural changes. <i>Langmuir</i> , <b>2009</b> , 25, 931-8	4	10
5	Preparation of 1D nanostructures using biomolecules. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 182, 012014	0.3	
4	Impedimetric Measurements for Monitoring Avidin-Biotin Interaction on Self-Assembled Monolayer. <i>Particulate Science and Technology</i> , <b>2008</b> , 26, 136-144	2	6
3	Self-Assembly of DNA-Templated Polypyrrole Nanowires: Spontaneous Formation of Conductive Nanoropes. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2444-2454	15.6	69
2	Investigation of Electrochemical Properties of Carbon Nanofibers Prepared by CCVD Method. <i>Particulate Science and Technology</i> , <b>2006</b> , 24, 311-320	2	10
1	Nanoparticles from a Gold Complex with Sulfite Ion as Ligand: Preparation and Characterization. <i>Particulate Science and Technology</i> , <b>2005</b> , 23, 79-83	2	5