

# Maria Coros

## List of Publications by Citations

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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

1,042  
citations

19  
h-index

30  
g-index

58  
ext. papers

1,295  
ext. citations

4.6  
avg, IF

4.75  
L-index

#	Paper	IF	Citations
57	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
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	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
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	Electrochemical platform based on nitrogen-doped graphene/chitosan nanocomposite for selective Pb detection. <i>Nanotechnology</i> , <b>2017</b> , 28, 114001	3.4	24
46	Electro-catalytic properties of graphene composites containing gold or silver nanoparticles. <i>Electrochimica Acta</i> , <b>2013</b> , 89, 246-252	6.7	24
45	Graphene-bimetallic nanoparticle composites with enhanced electro-catalytic detection of bisphenol A. <i>Nanotechnology</i> , <b>2016</b> , 27, 484001	3.4	22
44	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
43	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
42	Graphene oxide vs. reduced graphene oxide as carbon support in porphyrin peroxidase biomimetic nanomaterials. <i>Talanta</i> , <b>2016</b> , 148, 511-7	6.2	21
41	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

40	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
39	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
38	On the enhancement of hydrogen uptake by IRMOF-8 composites with Pt/carbon catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 7378-7384	6.7	19
37	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 <sup>2.2</sup>	2.2	18
36	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
35	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
34	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
33	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
32	Enhancement of peroxidase-like activity of N-doped graphene assembled with iron-tetrapyridylporphyrin. <i>RSC Advances</i> , <b>2016</b> , 6, 79497-79506	3.7	13
31	Thermally reduced graphene oxide as green and easily available adsorbent for Sunset yellow decontamination. <i>Environmental Research</i> , <b>2020</b> , 182, 109047	7.9	12
30	Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy carbon modified electrode. <i>Nanotechnology</i> , <b>2018</b> , 29, 095501	3.4	11
29	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	3.9	10
28	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
27	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
26	A concise overview on plasma treatment for application on textile and leather materials. <i>Plasma Processes and Polymers</i> , <b>2020</b> , 17, 2000046	3.4	10
25	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
24	Reduced graphene oxide modified with noble metal nanoparticles for formic acid dehydrogenation. <i>Catalysis Today</i> , <b>2021</b> , 366, 41-47	5.3	8
23	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

22	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
21	Graphene/silver nanoparticles-based surface-enhanced Raman spectroscopy detection platforms: Application in the study of DNA molecules at low pH. <i>Journal of Raman Spectroscopy</i> , <b>2019</b> , 50, 1849-1860	2.3	7
20	Photocatalytic and Electrocatalytic Properties of NGr-ZnO Hybrid Materials. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
19	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
18	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
17	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
16	Nitrogen and Sulfur Co-Doped Graphene as Efficient Electrode Material for L-Cysteine Detection. <i>Chemosensors</i> , <b>2021</b> , 9, 146	4	4
15	Supported H <sub>4</sub> SiW <sub>12</sub> O <sub>40</sub> catalysts for Pinene isomerization. <i>Open Chemistry</i> , <b>2012</b> , 10, 1208-1217	1.6	3
14	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
13	Sensing and Interaction of His-Tagged CA19-9 Antigen with Graphene-Modified Electrodes. <i>Chemosensors</i> , <b>2020</b> , 8, 112	4	3
12	Electrochemical degradation of carbamazepine using modified electrode with graphene-AuAg composite <b>2015</b> ,		2
11	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
10	A comparative study concerning chromatographic retention and computed partition coefficients of some precursors of peraza crown ethers. <i>Open Chemistry</i> , <b>2010</b> , 8, 1203-1209	1.6	2
9	Application in Electrochemistry of Graphene-Modified Electrodes. <i>Micro and Nanosystems</i> , <b>2013</b> , 5, 127-137	1.7	2
8	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
7	Investigation of L-Tryptophan Electrochemical Oxidation with a Graphene-Modified Electrode. <i>Biosensors</i> , <b>2021</b> , 11,	5.9	2
6	Bio-Functionalized Metallic Nanoparticles with Applications in Medicine <b>2016</b> , 803-817		1
5	Surface dynamics of genomic DNAs upon lowering the pH, in the presence of graphene/AgNPs-based SERS detection platform. <i>Journal of Molecular Modeling</i> , <b>2020</b> , 26, 211	2	1

4	Voltammetric determination of bisphenol A with a silver-reduced graphene oxide composite paste microsensor <b>2019</b> ,		1
3	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
2	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
1	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