

# Maria Coros

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,577  
citations

279487

23  
h-index

315357

38  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2229  
citing authors

#	ARTICLE	IF	CITATIONS
1	A brief overview on synthesis and applications of graphene and graphene-based nanomaterials. <i>Frontiers of Materials Science</i> , 2019, 13, 23-32.	1.1	126
2	Simple and cost-effective synthesis of graphene by electrochemical exfoliation of graphite rods. <i>RSC Advances</i> , 2016, 6, 2651-2661.	1.7	114
3	Review—Recent Progress in the Graphene-Based Electrochemical Sensors and Biosensors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037528.	1.3	103
4	The influence of uric and ascorbic acid on the electrochemical detection of dopamine using graphene-modified electrodes. <i>Electrochimica Acta</i> , 2015, 154, 197-204.	2.6	101
5	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> , 2015, 213, 474-483.	4.0	93
6	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> , 2017, 70, 13-20.	1.5	79
7	Photocatalytic performance of graphene/TiO <sub>2</sub> -Ag composites on amaranth dye degradation. <i>Materials Chemistry and Physics</i> , 2016, 179, 232-241.	2.0	64
8	Green methodology for the preparation of chitosan/graphene nanomaterial through electrochemical exfoliation and its applicability in Sunset Yellow detection. <i>Electrochimica Acta</i> , 2018, 283, 578-589.	2.6	62
9	Cytotoxicity assessment of graphene-based nanomaterials on human dental follicle stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 791-798.	2.5	51
10	Green synthesis, characterization and potential application of reduced graphene oxide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 119, 113971.	1.3	47
11	Graphene-porphyrin composite synthesis through graphite exfoliation: The electrochemical sensing of catechol. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 665-673.	4.0	46
12	Nitrogen-Doped Graphene: The Influence of Doping Level on the Charge-Transfer Resistance and Apparent Heterogeneous Electron Transfer Rate. <i>Sensors</i> , 2020, 20, 1815.	2.1	41
13	Electrochemical platform based on nitrogen-doped graphene/chitosan nanocomposite for selective Pb <sup>2+</sup> detection. <i>Nanotechnology</i> , 2017, 28, 114001.	1.3	33
14	Graphene-based materials produced by graphite electrochemical exfoliation in acidic solutions: Application to Sunset Yellow voltammetric detection. <i>Microchemical Journal</i> , 2019, 147, 112-120.	2.3	30
15	Graphene—bimetallic nanoparticle composites with enhanced electro-catalytic detection of bisphenol A. <i>Nanotechnology</i> , 2016, 27, 484001.	1.3	29
16	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> , 2019, 52, 2583-2606.	1.0	29
17	Graphene oxide vs. reduced graphene oxide as carbon support in porphyrin peroxidase biomimetic nanomaterials. <i>Talanta</i> , 2016, 148, 511-517.	2.9	28
18	Cytotoxicity mechanisms of nitrogen-doped graphene obtained by electrochemical exfoliation of graphite rods, on human endothelial and colon cancer cells. <i>Carbon</i> , 2020, 158, 267-281.	5.4	28

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19	Electro-catalytic properties of graphene composites containing gold or silver nanoparticles. <i>Electrochimica Acta</i> , 2013, 89, 246-252.	2.6	26
20	Sensitive detection of pyoverdine with an electrochemical sensor based on electrochemically generated graphene functionalized with gold nanoparticles. <i>Bioelectrochemistry</i> , 2018, 120, 94-103.	2.4	26
21	Thermally reduced graphene oxide as green and easily available adsorbent for Sunset yellow decontamination. <i>Environmental Research</i> , 2020, 182, 109047.	3.7	26
22	Reduced graphene oxide modified with noble metal nanoparticles for formic acid dehydrogenation. <i>Catalysis Today</i> , 2021, 366, 41-47.	2.2	26
23	Exfoliation of graphite rods via pulses of current for graphene synthesis: Sensitive detection of 8-hydroxy-2- $\beta$ -deoxyguanosine. <i>Talanta</i> , 2019, 196, 182-190.	2.9	25
24	A concise overview on plasma treatment for application on textile and leather materials. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000046.	1.6	25
25	Enantioanalysis of glutamine—a key factor in establishing the metabolomics process in gastric cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3199-3207.	1.9	24
26	On the enhancement of hydrogen uptake by IRMOF-8 composites with Pt/carbon catalyst. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7378-7384.	3.8	20
27	The study of adenine and guanine electrochemical oxidation using electrodes modified with graphene-platinum nanoparticles composites. <i>Electrochimica Acta</i> , 2014, 139, 386-393.	2.6	19
28	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> , 2018, 165, B3054-B3059.	1.3	17
29	Influence of chemical oxidation upon the electro-catalytic properties of graphene-gold nanoparticle composite. <i>Electrochimica Acta</i> , 2013, 91, 137-143.	2.6	16
30	Enantioanalysis of tryptophan in whole blood samples using stochastic sensors—A screening test for gastric cancer. <i>Chirality</i> , 2020, 32, 215-222.	1.3	16
31	Stone Paper as a New Substrate to Fabricate Flexible Screen-Printed Electrodes for the Electrochemical Detection of Dopamine. <i>Sensors</i> , 2020, 20, 3609.	2.1	16
32	Nitrogen and Sulfur Co-Doped Graphene as Efficient Electrode Material for L-Cysteine Detection. <i>Chemosensors</i> , 2021, 9, 146.	1.8	16
33	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> , 2020, 412, 5191-5202.	1.9	15
34	Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy carbon modified electrode. <i>Nanotechnology</i> , 2018, 29, 095501.	1.3	14
35	Enhancement of peroxidase-like activity of N-doped graphene assembled with iron-tetrapyrrolylporphyrin. <i>RSC Advances</i> , 2016, 6, 79497-79506.	1.7	13
36	Cytotoxicity of methylcellulose-based films containing graphenes and curcumin on human lung fibroblasts. <i>Process Biochemistry</i> , 2017, 52, 243-249.	1.8	12

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37	Photocatalytic and Electrocatalytic Properties of NGr-ZnO Hybrid Materials. <i>Nanomaterials</i> , 2020, 10, 1473.	1.9	12
38	Graphene/silver nanoparticlesâ€based surfaceâ€enhanced Raman spectroscopy detection platforms: Application in the study of DNA molecules at low pH. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1849-1860.	1.2	10
39	Electrochemical oxidation of adenine using platinum electrodes modified with carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 59, 181-185.	1.3	9
40	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> , 2016, 220, 664-671.	2.6	9
41	Detection of 8-Hydroxy-2â€Deoxyguanosine Biomarker with a Screen-Printed Electrode Modified with Graphene. <i>Sensors</i> , 2019, 19, 4297.	2.1	8
42	Investigation of L-Tryptophan Electrochemical Oxidation with a Graphene-Modified Electrode. <i>Biosensors</i> , 2021, 11, 36.	2.3	8
43	Electrochemical and spectroscopic studies of ssDNA damage induced by hydrogen peroxide using graphene based nanomaterials. <i>Talanta</i> , 2015, 138, 209-217.	2.9	7
44	Hydrothermal Synthesis of Nitrogen, Boron Co-Doped Graphene with Enhanced Electro-Catalytic Activity for Cymoxanil Detection. <i>Sensors</i> , 2021, 21, 6630.	2.1	7
45	Nitrogen-Doped Graphene-Based Sensor for Electrochemical Detection of Piroxicam, a NSAID Drug for COVID-19 Patients. <i>Chemosensors</i> , 2022, 10, 47.	1.8	7
46	Stochastic microsensors based on modified graphene for pattern recognition of maspin in biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3667-3673.	1.9	7
47	Sensing and Interaction of His-Tagged CA19-9 Antigen with Graphene-Modified Electrodes. <i>Chemosensors</i> , 2020, 8, 112.	1.8	6
48	Electrochemical L-Tyrosine Sensor Based on a Glassy Carbon Electrode Modified with Exfoliated Graphene. <i>Sensors</i> , 2022, 22, 3606.	2.1	5
49	N,S-Decorated graphenes modified with 2,3,7,8,12,13,17,18-octaethyl-21H,23H-porphine manganese(III) chloride-based 3D needle stochastic sensors for enantioanalysis of arginine: a key factor in the metabolomics and early detection of gastric cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 6521-6530.	1.9	5
50	Application in Electrochemistry of Graphene-Modified Electrodes. <i>Micro and Nanosystems</i> , 2013, 5, 127-137.	0.3	4
51	A comparative study concerning chromatographic retention and computed partition coefficients of some precursors of peraza crown ethers. <i>Open Chemistry</i> , 2010, 8, 1203-1209.	1.0	3
52	Supported H <sub>4</sub> SiW <sub>12</sub> O <sub>40</sub> catalysts for Î±-pinene isomerization. <i>Open Chemistry</i> , 2012, 10, 1208-1217.	1.0	3
53	Direct electrochemical oxidation of S-captopril using gold electrodes modified with graphene-AuAg nanocomposites. <i>International Journal of Nanomedicine</i> , 2014, 9, 1111.	3.3	3
54	Electrochemical degradation of carbamazepine using modified electrode with graphene-AuAg composite. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2

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55	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> , 2020, 26, 211.	0.8	2
56	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> , 2021, , 113701.	2.0	2
57	Voltammetric determination of bisphenol A with a silver-reduced graphene oxide composite paste microsensor. , 2019, , .		1
58	Bio-Functionalized Metallic Nanoparticles with Applications in Medicine. , 2016, , 803-817.		1