

Stela Pruneanu

List of Publications by Year in descending order

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63
papers

1,712
citations

257450

24
h-index

302126

39
g-index

63
all docs

63
docs citations

63
times ranked

2494
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.	2.2	126
2	Simple and cost-effective synthesis of graphene by electrochemical exfoliation of graphite rods. <i>RSC Advances</i> , 2016, 6, 2651-2661.	3.6	114
3	Review "Recent Progress in the Graphene-Based Electrochemical Sensors and Biosensors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037528.	2.9	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.	5.2	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.	7.8	93
6	Novel Graphene-Gold Nanoparticle Modified Electrodes for the High Sensitivity Electrochemical Spectroscopy Detection and Analysis of Carbamazepine. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23387-23394.	3.1	79
7	Azo dyes degradation using TiO ₂ -Pt/graphene oxide and TiO ₂ -Pt/reduced graphene oxide photocatalysts under UV and natural sunlight irradiation. <i>Solid State Sciences</i> , 2017, 70, 13-20.	3.2	79
8	Photocatalytic performance of graphene/TiO ₂ -Ag composites on amaranth dye degradation. <i>Materials Chemistry and Physics</i> , 2016, 179, 232-241.	4.0	64
9	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.	5.2	62
10	Cytotoxicity assessment of graphene-based nanomaterials on human dental follicle stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 791-798.	5.0	51
11	Green synthesis, characterization and potential application of reduced graphene oxide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 119, 113971.	2.7	47
12	Graphene-porphyrin composite synthesis through graphite exfoliation: The electrochemical sensing of catechol. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 665-673.	7.8	46
13	Few-layer graphene sheets with embedded gold nanoparticles for electrochemical analysis of adenine. <i>International Journal of Nanomedicine</i> , 2013, 8, 1429.	6.7	39
14	Manganese(III) Porphyrin-based Potentiometric Sensors for Diclofenac Assay in Pharmaceutical Preparations. <i>Sensors</i> , 2010, 10, 8850-8864.	3.8	36
15	Synthesis, morpho-structural properties and antibacterial effect of silicate-based composites containing graphene oxide/hydroxyapatite. <i>Materials Chemistry and Physics</i> , 2018, 217, 48-53.	4.0	35
16	Electrochemical platform based on nitrogen-doped graphene/chitosan nanocomposite for selective Pb ²⁺ detection. <i>Nanotechnology</i> , 2017, 28, 114001.	2.6	33
17	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.	4.5	30
18	Graphene "bimetallic nanoparticle composites with enhanced electro-catalytic detection of bisphenol A. <i>Nanotechnology</i> , 2016, 27, 484001.	2.6	29

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19	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.	1.8	29
20	Graphene oxide vs. reduced graphene oxide as carbon support in porphyrin peroxidase biomimetic nanomaterials. <i>Talanta</i> , 2016, 148, 511-517.	5.5	28
21	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.	10.3	28
22	Electro-catalytic properties of graphene composites containing gold or silver nanoparticles. <i>Electrochimica Acta</i> , 2013, 89, 246-252.	5.2	26
23	Sensitive detection of pyoverdine with an electrochemical sensor based on electrochemically generated graphene functionalized with gold nanoparticles. <i>Bioelectrochemistry</i> , 2018, 120, 94-103.	4.6	26
24	Electrochemical investigation of atenolol oxidation and detection by using a multicomponent nanostructural assembly of amino acids and gold nanoparticles. <i>Chemical Physics Letters</i> , 2011, 504, 56-61.	2.6	25
25	Exfoliation of graphite rods via pulses of current for graphene synthesis: Sensitive detection of 8-hydroxy-2- β -deoxyguanosine. <i>Talanta</i> , 2019, 196, 182-190.	5.5	25
26	Enantioanalysis of glutamine—a key factor in establishing the metabolomics process in gastric cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3199-3207.	3.7	24
27	Novel Multifunctional Graphene Sheets with Encased Au/Ag Nanoparticles for Advanced Electrochemical Analysis of Organic Compounds. <i>ChemPhysChem</i> , 2012, 13, 3632-3639.	2.1	19
28	The study of adenine and guanine electrochemical oxidation using electrodes modified with graphene-platinum nanoparticles composites. <i>Electrochimica Acta</i> , 2014, 139, 386-393.	5.2	19
29	Graphene-Gold Nanoparticles Nanozyme-Based Electrochemical Sensor with Enhanced Laccase-Like Activity for Determination of Phenolic Substrates. <i>Journal of the Electrochemical Society</i> , 2021, 168, 067523.	2.9	18
30	Catalytic one-step synthesis of Pt-decorated few-layer graphenes. <i>RSC Advances</i> , 2013, 3, 26391.	3.6	17
31	Molecular Recognition of Colon Cancer Biomarkers: P53, KRAS and CEA in Whole Blood Samples. <i>Journal of the Electrochemical Society</i> , 2017, 164, B443-B447.	2.9	17
32	Graphene/TiO ₂ -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.	2.9	17
33	Morphological and electrical characteristics of amino acid—AuNP nanostructured two-dimensional ensembles. <i>Chemical Physics</i> , 2010, 373, 295-299.	1.9	16
34	Influence of chemical oxidation upon the electro-catalytic properties of graphene—gold nanoparticle composite. <i>Electrochimica Acta</i> , 2013, 91, 137-143.	5.2	16
35	Enantioanalysis of tryptophan in whole blood samples using stochastic sensors—a screening test for gastric cancer. <i>Chirality</i> , 2020, 32, 215-222.	2.6	16
36	Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy carbon modified electrode. <i>Nanotechnology</i> , 2018, 29, 095501.	2.6	14

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37	Enhancement of peroxidase-like activity of N-doped graphene assembled with iron-tetrapyrrolylporphyrin. <i>RSC Advances</i> , 2016, 6, 79497-79506.	3.6	13
38	Graphene-based stochastic sensors for pattern recognition of gastric cancer biomarkers in biological fluids. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 1365-1370.	0.8	13
39	Cytotoxicity of methylcellulose-based films containing graphenes and curcumin on human lung fibroblasts. <i>Process Biochemistry</i> , 2017, 52, 243-249.	3.7	12
40	Photocatalytic and Electrocatalytic Properties of NGr-ZnO Hybrid Materials. <i>Nanomaterials</i> , 2020, 10, 1473.	4.1	12
41	Single-Step Synthesis of Gold Nanowires Using Biomolecules as Capping Agent/Template: Applications for Tissue Engineering. <i>Particulate Science and Technology</i> , 2013, 31, 658-662.	2.1	10
42	Electrochemical oxidation of adenine using platinum electrodes modified with carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 59, 181-185.	2.7	9
43	Charge transfer-resistance in nitrogen-doped/undoped graphene: Its influence on the electro-catalytic reduction of H ₂ O ₂ . <i>Electrochimica Acta</i> , 2016, 220, 664-671.	5.2	9
44	Multimode microsensors based on Ag@TiO ₂ /graphene materials used for the molecular recognition of carcinoembryonic antigen in whole blood samples. <i>RSC Advances</i> , 2017, 7, 28419-28426.	3.6	8
45	Efficient photocatalytic removal of RhB using magnetic Fe ₃ O ₄ @SnO ₂ nanocomposites containing Sn ²⁺ interstitial impurities. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14132-14143.	2.2	8
46	Detection of 8-Hydroxy-2'-Deoxyguanosine Biomarker with a Screen-Printed Electrode Modified with Graphene. <i>Sensors</i> , 2019, 19, 4297.	3.8	8
47	Investigation of L-Tryptophan Electrochemical Oxidation with a Graphene-Modified Electrode. <i>Biosensors</i> , 2021, 11, 36.	4.7	8
48	Electrochemical and spectroscopic studies of ssDNA damage induced by hydrogen peroxide using graphene based nanomaterials. <i>Talanta</i> , 2015, 138, 209-217.	5.5	7
49	Hydrothermal Synthesis of Nitrogen, Boron Co-Doped Graphene with Enhanced Electro-Catalytic Activity for Cymoxanil Detection. <i>Sensors</i> , 2021, 21, 6630.	3.8	7
50	Nitrogen-Doped Graphene-Based Sensor for Electrochemical Detection of Piroxicam, a NSAID Drug for COVID-19 Patients. <i>Chemosensors</i> , 2022, 10, 47.	3.6	7
51	Structural and electrochemical characterization of novel leucine@gold nanoparticles modified electrode. <i>Electrochimica Acta</i> , 2012, 63, 146-152.	5.2	6
52	Sensing and Interaction of His-Tagged CA19-9 Antigen with Graphene-Modified Electrodes. <i>Chemosensors</i> , 2020, 8, 112.	3.6	6
53	Electrochemical L-Tyrosine Sensor Based on a Glassy Carbon Electrode Modified with Exfoliated Graphene. <i>Sensors</i> , 2022, 22, 3606.	3.8	5
54	Application in Electrochemistry of Graphene-Modified Electrodes. <i>Micro and Nanosystems</i> , 2013, 5, 127-137.	0.6	4

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55	Direct electrochemical oxidation of S-captopril using gold electrodes modified with graphene-AuAg nanocomposites. International Journal of Nanomedicine, 2014, 9, 1111.	6.7	3
56	Nanostructures based on metallic nanoparticles and biomolecules. AIP Conference Proceedings, 2012, , .	0.4	2
57	Electrochemical degradation of carbamazepine using modified electrode with graphene-AuAg composite. AIP Conference Proceedings, 2015, , .	0.4	2
58	Evaluation of N-doped graphene role in the visible-light driven photodegradation of sulfamethoxazole by a TiO ₂ -silver-graphene composite. Journal of Photochemistry and Photobiology A: Chemistry, 2021, , 113701.	3.9	2
59	A kinetic method for para-nitrophenol determination based on its inhibitory effect on the catalytic reaction of catalase. Open Chemistry, 2005, 3, 592-604.	1.9	1
60	Kinetic Determination of Drug Particles Concentration via Enzyme-Catalyzed Decomposition of Hydrogen Peroxide. Particulate Science and Technology, 2011, 29, 493-502.	2.1	1
61	Voltammetric determination of bisphenol A with a silver-reduced graphene oxide composite paste microsensor. , 2019, , .		1
62	Bio-Functionalized Metallic Nanoparticles with Applications in Medicine. , 2016, , 803-817.		1
63	Electrochemical oxidation of adenine on graphene-platinum nanoparticles modified electrode. , 2013, , .		0