Alina Vasilescu

List of Publications by Year
in descending order

64	2,240	172207	223531
papers	citations	29 h-index	46 g-index

68	68	68	2782
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lysozyme detection on aptamer functionalized graphene-coated SPR interfaces. Biosensors and Bioelectronics, 2013, 50, 239-243.	5.3	125
2	Advances in Enzyme-Based Biosensors for Pesticide Detection. Biosensors, 2018, 8, 27.	2.3	112
3	Electrochemical Aptamer-Based Biosensors for the Detection of Cardiac Biomarkers. ACS Omega, 2018, 3, 12010-12018.	1.6	111
4	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode. Sensors and Actuators B: Chemical, 2018, 262, 180-187.	4.0	108
5	Electrochemical aptasensors for the assessment of food quality and safety. TrAC - Trends in Analytical Chemistry, 2016, 79, 60-70.	5.8	94
6	Biosensors designed for environmental and food quality control based on screen-printed graphite electrodes with different configurations. Analytical and Bioanalytical Chemistry, 2002, 374, 25-32.	1.9	81
7	Screen-printed biosensors for the control of wine quality based on lactate and acetaldehyde determination. Analytica Chimica Acta, 2002, 458, 203-213.	2.6	72
8	Cobalt phthalocyanine tetracarboxylic acid modified reduced graphene oxide: a sensitive matrix for the electrocatalytic detection of peroxynitrite and hydrogen peroxide. RSC Advances, 2015, 5, 1474-1484.	1.7	70
9	A novel electrochemical aptamerâ€“antibody sandwich assay for lysozyme detection. Analyst, The, 2015, 140, 4148-4153.	1.7	69
10	Screen-printed electrodes with electropolymerized Meldola Blue as versatile detectors in biosensors. Biosensors and Bioelectronics, 2003, 18, 781-790.	5.3	68
11	Detection of Antibiotics and Evaluation of Antibacterial Activity with Screen-Printed Electrodes. Sensors, 2018, 18, 901.	2.1	68
12	Simultaneous electrochemical detection of tryptophan and tyrosine using boron-doped diamond and diamond nanowire electrodes. Electrochemistry Communications, 2013, 35, 84-87.	2.3	67
13	Label-free detection of lysozyme in wines using an aptamer based biosensor and SPR detection. Sensors and Actuators B: Chemical, 2015, 206, 198-204.	4.0	66
14	Electrochemical Affinity Biosensors Based on Disposable Screen-Printed Electrodes for Detection of Food Allergens. Sensors, 2016, 16, 1863.	2.1	62
15	Detection of organophosphorus insecticides with immobilized acetylcholinesterase - comparative study of two enzyme sensors. Analytical and Bioanalytical Chemistry, 2002, 374, 39-45.	1.9	59
16	Chronoamperometric determination of d-lactate using screen-printed enzyme electrodes. Analytica Chimica Acta, 2001, 433, 81-88.	2.6	58
17	Surface Plasmon Resonance based sensing of lysozyme in serum on Micrococcus lysodeikticus-modified graphene oxide surfaces. Biosensors and Bioelectronics, 2017, 89, 525-531.	5.3	58
18	Reduced Graphene Oxide Modified Electrodes for Sensitive Sensing of Gliadin in Food Samples. ACS Sensors, 2016, 1, 1462-1470.	4.0	57

#	Article	IF	Citations
19	Label free aptasensor for Lysozyme detection: A comparison of the analytical performance of two aptamers. Bioelectrochemistry, 2015, 105, 72-77.	2.4	56
20	Advantages of Carbon Nanomaterials in Electrochemical Aptasensors for Food Analysis. Electroanalysis, 2018, 30, 2-19.	1.5	52
21	Exhaled breath biomarker sensing. Biosensors and Bioelectronics, 2021, 182, 113193.	5.3	50
22	Development of a label-free aptasensor for monitoring the self-association of lysozyme. Analyst, The, 2013, 138, 3530.	1.7	46
23	Aptamer-Based Electrochemical Sensing of Lysozyme. Chemosensors, 2016, 4, 10.	1.8	43
24	A single use electrochemical sensor based on biomimetic nanoceria for the detection of wine antioxidants. Talanta, 2016, 156-157, 112-118.	2.9	39
25	DEVELOPMENT OF A DISPOSABLE BIOSENSOR FOR THE DETECTION OF METAM-SODIUM AND ITS METABOLITE MITC. Analytical Letters, 2001, 34, 513-528.	1.0	35
26	Title is missing!. Biotechnology Letters, 1999, 13, 559-562.	0.5	33
27	Detection of Allergenic Lysozyme during Winemaking with an Electrochemical Aptasensor. Electroanalysis, 2019, 31, 2262-2273.	1.5	33
28	Electrophoretic Approach for the Simultaneous Deposition and Functionalization of Reduced Graphene Oxide Nanosheets with Diazonium Compounds: Application for Lysozyme Sensing in Serum. ACS Applied Materials & Interfaces, 2017, 9, 12823-12831.	4.0	31
29	Progress in Electrochemical (Bio)Sensors for Monitoring Wine Production. Chemosensors, 2019, 7, 66.	1.8	31
30	Addressing the Selectivity of Enzyme Biosensors: Solutions and Perspectives. Sensors, 2021, 21, 3038.	2.1	30
31	Nanoparticle-Based Technologies for the Detection of Food Antioxidants. Current Analytical Chemistry, 2012, 8, 495-505.	0.6	27
32	Strategies for developing NADH detectors based on Meldola Blue and screen-printed electrodes: a comparative study. Talanta, 2003, 59, 751-765.	2.9	25
33	Advances in the Detection of Dithiocarbamate Fungicides: Opportunities for Biosensors. Biosensors, 2021, 11, 12.	2.3	25
34	Nanomaterial-based electrochemical sensors and optical probes for detection and imaging of peroxynitrite: a review. Mikrochimica Acta, 2017, 184, 649-675.	2.5	21
35	Simple DPPH[.]â€Based Electrochemical Assay for the Evaluation of the Antioxidant Capacity: a Thorough Comparison with Spectrophotometric Assays and Evaluation with Realâ€World Samples. Electroanalysis, 2014, 26, 2677-2685.	1.5	20
36	Two-Dimensional Nanostructures for Electrochemical Biosensor. Sensors, 2021, 21, 3369.	2.1	20

#	Article	IF	Citations
37	Surface properties and electromagnetic excitation of a piezoelectric gallium phosphate biosensor. Analyst, The, 2005, 130, 213.	1.7	17
38	Collision-Based Electrochemical Detection of Lysozyme Aggregation. Analytical Chemistry, 2021, 93, 2026-2037.	3.2	17
39	Electrochemical biosensors combining aptamers and enzymatic activity: Challenges and analytical opportunities. Electrochimica Acta, 2021, 390, 138863.	2.6	17
40	Vertically Aligned Nitrogen-Doped Carbon Nanotube Carpet Electrodes: Highly Sensitive Interfaces for the Analysis of Serum from Patients with Inflammatory Bowel Disease. ACS Applied Materials & Interfaces, 2016, 8, 9600-9609.	4.0	16
41	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 1: Lysozyme aggregation at pH 2 and 7.4. Electrochimica Acta, 2017, 254, 375-383.	2.6	15
42	Versatile SPR aptasensor for detection of lysozyme dimer in oligomeric and aggregated mixtures. Biosensors and Bioelectronics, 2016, 83, 353-360.	5.3	14
43	Low-fouling SPR detection of lysozyme and its aggregates. Analytical Methods, 2014, 6, 7646-7654.	1.3	12
44	Metal Nanomaterial-Assisted Aptasensors for Emerging Pollutants Detection. , 2018, , 193-231.		12
45	Carbon Nanofiber and Meldola Blue Based Electrochemical Sensor for NADH: Application to the Detection of Benzaldehyde. Electroanalysis, 2018, 30, 2676-2688.	1.5	11
46	Flow injection enzymatic biosensor for aldehydes based on a Meldola Blue-Ni complex electrochemical mediator. Mikrochimica Acta, 2020, 187, 550.	2.5	10
47	Functional Micrococcus lysodeikticus layers deposited by laser technique for the optical sensing of lysozyme. Colloids and Surfaces B: Biointerfaces, 2018, 162, 98-107.	2.5	10
48	Advances in electrochemical detection for probing protein aggregation. Current Opinion in Electrochemistry, 2021, 30, 100820.	2.5	8
49	Interfaces obtained by MAPLE for chemical and biosensors applications. Sensors and Actuators Reports, 2021, 3, 100040.	2.3	7
50	Optical biosensing of lysozyme. Journal of Molecular Structure, 2022, 1250, 131639.	1.8	6
51	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation. Electrochimica Acta, 2018, 266, 364-372.	2.6	5
52	Metal Nano-Oxide based Colorimetric Sensor Array for the Determination of Plant Polyphenols with Antioxidant Properties. Analytical Letters, 2020, 53, 627-645.	1.0	5
53	Electrochemical Evaluation of Laccase Activity in Must. Chemosensors, 2020, 8, 126.	1.8	5
54	Highly Stable, Cold-Active Aldehyde Dehydrogenase from the Marine Antarctic Flavobacterium sp. PL002. Fermentation, 2022, 8, 7.	1.4	5

#	Article	IF	Citations
55	Detection of Biomedically Relevant Stilbenes from Wines by Mass Spectrometry. Advances in Experimental Medicine and Biology, 2014, 806, 361-382.	0.8	4
56	Aptasensors, an Analytical Solution for Mycotoxins Detection. Comprehensive Analytical Chemistry, 2017, , 101-146.	0.7	3
57	Bioassays and biosensors for food analysis. , 2020, , 217-258.		3
58	Fast Electrochemical Measurement of Laccase Activity for Monitoring Grapesâ€™ Infection with Botrytis cinerea. Processes, 2022, 10, 575.	1.3	3
59	Detection of Biomedically Relevant Stilbenes from Wines by Mass Spectrometry. Advances in Experimental Medicine and Biology, 2019, 1140, 665-684.	0.8	2
60	Extremophile-assisted nanomaterial production and nanomaterial-based biosensing. , 2019, , 153-180.		2
61	CHAPTER 9. Recent Approaches to Enhance the Selectivity of Peroxynitrite Detection. RSC Detection Science, 2015, , 166-185.	0.0	2
62	Nanoscale Architectures for Smart Bio-Interfaces: Advances and Challenges. , 2011, , .		1
63	Surface Plasmon Resonance-Modified Graphene Oxide Surfaces for Whole-Cell-Based Sensing. , 2018, , 151-175.		1
64	Recent Progress in the Electrochemical Detection of Diseaseâ€Related Diagnostic Biomarkers. RSC Detection Science, 2013, , 89-128.	0.0	1