

Alfredo de la Escosura-Muiz

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.

81 papers	3,214 citations	32 h-index	56 g-index
86 ext. papers	3,634 ext. citations	7.7 avg, IF	5.76 L-index

#	Paper	IF	Citations
81	Enhanced lateral flow immunoassay using gold nanoparticles loaded with enzymes. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 412-6	11.8	219
80	Label-free impedimetric aptasensor for ochratoxin-A detection using iridium oxide nanoparticles. <i>Analytical Chemistry</i> , 2015 , 87, 5167-72	7.8	182
79	Nanochannels preparation and application in biosensing. <i>ACS Nano</i> , 2012 , 6, 7556-83	16.7	156
78	Biosensors for plant pathogen detection. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 72-86	11.8	142
77	Improving sensitivity of gold nanoparticle-based lateral flow assays by using wax-printed pillars as delay barriers of microfluidics. <i>Lab on A Chip</i> , 2014 , 14, 4406-14	7.2	130
76	A nanochannel/nanoparticle-based filtering and sensing platform for direct detection of a cancer biomarker in blood. <i>Small</i> , 2011 , 7, 675-82	11	117
75	Immunosensing using nanoparticles. <i>Materials Today</i> , 2010 , 13, 24-34	21.8	116
74	Simple paper architecture modifications lead to enhanced sensitivity in nanoparticle based lateral flow immunoassays. <i>Lab on A Chip</i> , 2013 , 13, 386-90	7.2	99
73	Electrochemical analysis with nanoparticle-based biosystems. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 568-584	14.6	92
72	ICP-MS: a powerful technique for quantitative determination of gold nanoparticles without previous dissolving. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 2003-2011	2.3	89
71	Simple monitoring of cancer cells using nanoparticles. <i>Nano Letters</i> , 2012 , 12, 4164-71	11.5	87
70	Rapid identification and quantification of tumor cells using an electrocatalytic method based on gold nanoparticles. <i>Analytical Chemistry</i> , 2009 , 81, 10268-74	7.8	87
69	Gold nanoparticle-based electrochemical magnetoimmunosensor for rapid detection of anti-hepatitis B virus antibodies in human serum. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1710-4	11.8	78
68	Aptamers based electrochemical biosensor for protein detection using carbon nanotubes platforms. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1715-8	11.8	76
67	Design, preparation, and evaluation of a fixed-orientation antibody/gold-nanoparticle conjugate as an immunosensing label. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10753-9	9.5	72
66	Nanochannels for diagnostic of thrombin-related diseases in human blood. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 24-31	11.8	70
65	Highly sensitive and rapid determination of Escherichia coli O157:H7 in minced beef and water using electrocatalytic gold nanoparticle tags. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 511-5	11.8	69

64	Alzheimer's disease biomarkers detection in human samples by efficient capturing through porous magnetic microspheres and labelling with electrocatalytic gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 162-9	11.8	60
63	Controlling the electrochemical deposition of silver onto gold nanoparticles: reducing interferences and increasing the sensitivity of magnetoimmuno assays. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2475-82	11.8	60
62	Magnetic Bead/Gold Nanoparticle Double-Labeled Primers for Electrochemical Detection of Isothermal Amplified Leishmania DNA. <i>Small</i> , 2016 , 12, 205-13	11	60
61	Triple lines gold nanoparticle-based lateral flow assay for enhanced and simultaneous detection of Leishmania DNA and endogenous control. <i>Nano Research</i> , 2015 , 8, 3704-3714	10	55
60	Detection of circulating cancer cells using electrocatalytic gold nanoparticles. <i>Small</i> , 2012 , 8, 3605-12	11	53
59	Size-dependent direct electrochemical detection of gold nanoparticles: application in magnetoimmunoassays. <i>Nanoscale</i> , 2011 , 3, 3350-6	7.7	48
58	Nanoparticle based enhancement of electrochemical DNA hybridization signal using nanoporous electrodes. <i>Chemical Communications</i> , 2010 , 46, 9007-9	5.8	48
57	Electrochemical detection of plant virus using gold nanoparticle-modified electrodes. <i>Analytica Chimica Acta</i> , 2019 , 1046, 123-131	6.6	46
56	Label-free voltammetric immunosensor using a nanoporous membrane based platform. <i>Electrochemistry Communications</i> , 2010 , 12, 859-863	5.1	44
55	Electrochemical (Bio)Sensors for Pesticides Detection Using Screen-Printed Electrodes. <i>Biosensors</i> , 2020 , 10,	5.9	44
54	Lab-in-a-syringe using gold nanoparticles for rapid immunosensing of protein biomarkers. <i>Lab on A Chip</i> , 2015 , 15, 399-405	7.2	43
53	Nanochannel array device operating through Prussian blue nanoparticles for sensitive label-free immunodetection of a cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 107-14	11.8	38
52	Electrochemical quantification of gold nanoparticles based on their catalytic properties toward hydrogen formation: Application in magnetoimmunoassays. <i>Electrochemistry Communications</i> , 2010 , 12, 1501-1504	5.1	38
51	Silver, gold and the corresponding core shell nanoparticles: synthesis and characterization. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 97-106	2.3	35
50	Electrochemical detection of proteins using nanoparticles: applications to diagnostics. <i>Expert Opinion on Medical Diagnostics</i> , 2010 , 4, 21-37		34
49	Alzheimer Disease Biomarker Detection Through Electrocatalytic Water Oxidation Induced by Iridium Oxide Nanoparticles. <i>Electroanalysis</i> , 2014 , 26, 1287-1294	3	32
48	DNA hybridization sensor based on aurothiomalate electroactive label on glassy carbon electrodes. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1048-54	11.8	32
47	DNA hybridization biosensors using polylysine modified SPCEs. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1340-6	11.8	32

46	Signal enhancement on gold nanoparticle-based lateral flow tests using cellulose nanofibers. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111407	11.8	31
45	A DNA Aptasensor for Electrochemical Detection of Vascular Endothelial Growth Factor. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 3411-6	1.3	30
44	Nanochannels for electrical biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 79, 134-150	14.6	30
43	Iridium oxide (IV) nanoparticle-based lateral flow immunoassay. <i>Biosensors and Bioelectronics</i> , 2019 , 132, 132-135	11.8	28
42	Fully printed one-step biosensing device using graphene/AuNPs composite. <i>Biosensors and Bioelectronics</i> , 2019 , 129, 238-244	11.8	27
41	Direct competitive immunosensor for Imidacloprid pesticide detection on gold nanoparticle-modified electrodes. <i>Talanta</i> , 2020 , 209, 120465	6.2	27
40	Nanoparticles-based nanochannels assembled on a plastic flexible substrate for label-free immunosensing. <i>Nano Research</i> , 2015 , 8, 1180-1188	10	25
39	Detection of parathyroid hormone-like hormone in cancer cell cultures by gold nanoparticle-based lateral flow immunoassays. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 53-61	6	23
38	Low-Cost Strategy for the Development of a Rapid Electrochemical Assay for Bacteria Detection Based on AuAg Nanoshells. <i>ACS Omega</i> , 2018 , 3, 18849-18856	3.9	23
37	A monoclonal antibody-based immunosensor for the electrochemical detection of imidacloprid pesticide. <i>Analyst</i> , 2019 , 144, 2936-2941	5	20
36	In Situ Plant Virus Nucleic Acid Isothermal Amplification Detection on Gold Nanoparticle-Modified Electrodes. <i>Analytical Chemistry</i> , 2019 , 91, 4790-4796	7.8	20
35	Casein modified gold nanoparticles for future theranostic applications. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 271-6	11.8	20
34	Bifunctional Au@Pt/Au core@shell Nanoparticles As Novel Electrocatalytic Tags in Immunosensing: Application for Alzheimer's Disease Biomarker Detection. <i>Analytical Chemistry</i> , 2020 , 92, 7209-7217	7.8	19
33	Nanoparticles as Emerging Labels in Electrochemical Immunosensors. <i>Sensors</i> , 2019 , 19,	3.8	19
32	Paper-Based Electrodes for Nanoparticles Detection. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 662-666	3.1	18
31	Quantum Dot Bioconjugates for Diagnostic Applications. <i>Topics in Current Chemistry</i> , 2020 , 378, 35	7.2	17
30	Electrochemical Biosensors Based on Nanomaterials for Early Detection of Alzheimer's Disease. <i>Sensors</i> , 2020 , 20,	3.8	16
29	In situ monitoring of PTHLH secretion in neuroblastoma cells cultured onto nanoporous membranes. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 62-68	11.8	15

28	Electrocatalytic detection of aurothiomalate on carbon electrodes: Application as a non-enzymatic label to the quantification of proteins. <i>Analytica Chimica Acta</i> , 2004 , 524, 355-363	6.6	14
27	Folding-Based Electrochemical Aptasensor for the Determination of Lactoglobulin on Poly-L-Lysine Modified Graphite Electrodes. <i>Sensors</i> , 2020 , 20,	3.8	11
26	Electrical Evaluation of Bacterial Virulence Factors Using Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13140-13146	9.5	10
25	Organic-based field effect transistors for protein detection fabricated by inkjet-printing. <i>Organic Electronics</i> , 2020 , 84, 105794	3.5	10
24	Catalytic Effect on Silver Electrodeposition of Gold Deposited on Carbon Electrodes. <i>Electroanalysis</i> , 2004 , 16, 1561-1568	3	10
23	Iridium oxide (IV) nanoparticle-based electrocatalytic detection of PBDE. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 150-154	11.8	10
22	Aurothiomalate as an electroactive label for the determination of immunoglobulin M using glassy carbon electrodes as immunoassay transducers. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 473-481	8.5	8
21	Gold Nanoparticles: A Versatile Label for Affinity Electrochemical Biosensors	177-197	7
20	Production and printing of graphene oxide foam ink for electrocatalytic applications. <i>Electrochemistry Communications</i> , 2019 , 98, 6-9	5.1	7
19	Electrochemical quantification of AgS quantum dots: evaluation of different surface coating ligands for bacteria determination. <i>Mikrochimica Acta</i> , 2020 , 187, 169	5.8	6
18	Determination of human serum albumin using aurothiomalate as electroactive label. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 742-50	4.4	5
17	Nanoceria quantification based on its oxidative effect towards the ferrocyanide/ferricyanide system. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 840, 338-342	4.1	3
16	Lateral Flow Biosensors Based on Gold Nanoparticles. <i>Comprehensive Analytical Chemistry</i> , 2014 , 66, 569-605	1.9	3
15	Control of Electron-transfer in Immunonanosensors by Using Polyclonal and Monoclonal Antibodies. <i>Electroanalysis</i> , 2016 , 28, 1795-1802	3	3
14	Simple and rapid electrochemical quantification of water-stabilized HgSe nanoparticles of great concern in environmental studies. <i>Talanta</i> , 2019 , 200, 72-77	6.2	2
13	Protein and DNA Electrochemical Sensing Using Anodized Aluminum Oxide Nanochannel Arrays. <i>Springer Series in Materials Science</i> , 2015 , 271-291	0.9	2
12	Electrocatalytic Detection: Magnetic Bead/Gold Nanoparticle Double-Labeled Primers for Electrochemical Detection of Isothermal Amplified Leishmania DNA (Small 2/2016). <i>Small</i> , 2016 , 12, 204-204	1.1	2
11	Application of Nanomaterials for DNA Sensing. <i>Nucleic Acids and Molecular Biology</i> , 2014 , 305-332		2

10	Nanoparticle/Nanochannels-Based Electrochemical Biosensors. <i>Nanoscience and Technology</i> , 2015 , 205-228		1
9	Nanomaterials for Electroanalysis 2010 ,		1
8	Electrochemical immunosensing using micro and nanoparticles. <i>Methods in Molecular Biology</i> , 2009 , 504, 145-55	1.4	1
7	Electrochemical Antibody-Aptamer Assay for VEGF Cancer Biomarker Detection. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 175-178	0.2	1
6	Strip modification and alternative architectures for signal amplification in nanoparticle-based lateral flow assays. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 4111-4117	4.4	1
5	Enhancing the electrocatalytic activity of palladium nanocluster tags by selective introduction of gold atoms: Application for a wound infection biomarker detection.. <i>Biosensors and Bioelectronics</i> , 2021 , 200, 113926	11.8	0
4	Advances in quantum dots as diagnostic tools.. <i>Advances in Clinical Chemistry</i> , 2022 , 107, 1-40	5.8	0
3	Electrical monitoring of infection biomarkers in chronic wounds using nanochannels.. <i>Biosensors and Bioelectronics</i> , 2022 , 209, 114243	11.8	0
2	Nanoparticles for DNA, Protein, and Cell Electrochemical Detection 2014 , 209-241		
1	Nanoparticles and Inductively Coupled Plasma Mass SpectroscopyBased Biosensing355-376		