

Alfredo de la Escosura-Muñiz

List of Publications by Year in descending order

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82
papers

4,050
citations

94433

37
h-index

114465

63
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86
all docs

86
docs citations

86
times ranked

5073
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2022, 200, 113926.	10.1	6
2	Advances in quantum dots as diagnostic tools. <i>Advances in Clinical Chemistry</i> , 2022, 107, 1-40.	3.7	8
3	Electrical monitoring of infection biomarkers in chronic wounds using nanochannels. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114243.	10.1	7
4	Strip modification and alternative architectures for signal amplification in nanoparticle-based lateral flow assays. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4111-4117.	3.7	9
5	Unfolded p53 as a Marker of Oxidative Stress in Mild Cognitive Impairment, Alzheimer's and Parkinson's Disease. <i>Current Alzheimer Research</i> , 2021, 18, 695-700.	1.4	10
6	Direct competitive immunosensor for Imidacloprid pesticide detection on gold nanoparticle-modified electrodes. <i>Talanta</i> , 2020, 209, 120465.	5.5	48
7	Electrochemical Biosensors Based on Nanomaterials for Early Detection of Alzheimer's Disease. <i>Sensors</i> , 2020, 20, 4748.	3.8	36
8	Organic-based field effect transistors for protein detection fabricated by inkjet-printing. <i>Organic Electronics</i> , 2020, 84, 105794.	2.6	13
9	Electrochemical quantification of Ag ₂ S quantum dots: evaluation of different surface coating ligands for bacteria determination. <i>Mikrochimica Acta</i> , 2020, 187, 169.	5.0	9
10	Quantum Dot Bioconjugates for Diagnostic Applications. <i>Topics in Current Chemistry</i> , 2020, 378, 35.	5.8	36
11	Folding-Based Electrochemical Aptasensor for the Determination of β -Lactoglobulin on Poly-L-Lysine Modified Graphite Electrodes. <i>Sensors</i> , 2020, 20, 2349.	3.8	20
12	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.	6.5	38
13	Electrochemical (Bio)Sensors for Pesticides Detection Using Screen-Printed Electrodes. <i>Biosensors</i> , 2020, 10, 32.	4.7	86
14	Polymeric Magnetic Microparticles as Electrochemical Immunosensing Platforms. , 2020, 60, .		0
15	Signal enhancement on gold nanoparticle-based lateral flow tests using cellulose nanofibers. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111407.	10.1	53
16	Electrical Evaluation of Bacterial Virulence Factors Using Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13140-13146.	8.0	23
17	A monoclonal antibody-based immunosensor for the electrochemical detection of imidacloprid pesticide. <i>Analyst</i> , 2019, 144, 2936-2941.	3.5	35
18	Simple and rapid electrochemical quantification of water-stabilized HgSe nanoparticles of great concern in environmental studies. <i>Talanta</i> , 2019, 200, 72-77.	5.5	5

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19	In Situ Plant Virus Nucleic Acid Isothermal Amplification Detection on Gold Nanoparticle-Modified Electrodes. <i>Analytical Chemistry</i> , 2019, 91, 4790-4796.	6.5	35
20	Nanoceria quantification based on its oxidative effect towards the ferrocyanide/ferricyanide system. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 338-342.	3.8	4
21	Iridium oxide (IV) nanoparticle-based lateral flow immunoassay. <i>Biosensors and Bioelectronics</i> , 2019, 132, 132-135.	10.1	38
22	Nanoparticles as Emerging Labels in Electrochemical Immunosensors. <i>Sensors</i> , 2019, 19, 5137.	3.8	32
23	Electrochemical detection of plant virus using gold nanoparticle-modified electrodes. <i>Analitica Chimica Acta</i> , 2019, 1046, 123-131.	5.4	86
24	Production and printing of graphene oxide foam ink for electrocatalytic applications. <i>Electrochemistry Communications</i> , 2019, 98, 6-9.	4.7	9
25	Iridium oxide (IV) nanoparticle-based electrocatalytic detection of PBDE. <i>Biosensors and Bioelectronics</i> , 2019, 127, 150-154.	10.1	13
26	Fully printed one-step biosensing device using graphene/AuNPs composite. <i>Biosensors and Bioelectronics</i> , 2019, 129, 238-244.	10.1	39
27	In situ monitoring of PTHLH secretion in neuroblastoma cells cultured onto nanoporous membranes. <i>Biosensors and Bioelectronics</i> , 2018, 107, 62-68.	10.1	32
28	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.	3.5	31
29	Biosensors for plant pathogen detection. <i>Biosensors and Bioelectronics</i> , 2017, 93, 72-86.	10.1	201
30	Magnetic Bead/Gold Nanoparticle Double-Labeled Primers for Electrochemical Detection of Isothermal Amplified <i>Leishmania</i> DNA. <i>Small</i> , 2016, 12, 205-213.	10.0	70
31	Control of Electron Transfer in Immunonanosenors by Using Polyclonal and Monoclonal Antibodies. <i>Electroanalysis</i> , 2016, 28, 1795-1802.	2.9	4
32	Electrocatalytic Detection: Magnetic Bead/Gold Nanoparticle Double-Labeled Primers for Electrochemical Detection of Isothermal Amplified <i>Leishmania</i> DNA (Small 2/2016). <i>Small</i> , 2016, 12, 204-204.	10.0	2
33	Nanochannels for electrical biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 134-150.	11.4	42
34	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.	3.3	27
35	Nanoparticle/Nanochannels-Based Electrochemical Biosensors. <i>Nanoscience and Technology</i> , 2015, , 205-223.	1.5	1
36	Label-Free Impedimetric Aptasensor for Ochratoxin-A Detection Using Iridium Oxide Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 5167-5172.	6.5	208

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37	A DNA Aptasensor for Electrochemical Detection of Vascular Endothelial Growth Factor. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3411-3416.	0.9	35
38	Triple lines gold nanoparticle-based lateral flow assay for enhanced and simultaneous detection of <i>Leishmania</i> DNA and endogenous control. <i>Nano Research</i> , 2015, 8, 3704-3714.	10.4	66
39	Protein and DNA Electrochemical Sensing Using Anodized Aluminum Oxide Nanochannel Arrays. <i>Springer Series in Materials Science</i> , 2015, , 271-291.	0.6	4
40	Highly sensitive and rapid determination of <i>Escherichia coli</i> O157:H7 in minced beef and water using electrocatalytic gold nanoparticle tags. <i>Biosensors and Bioelectronics</i> , 2015, 67, 511-515.	10.1	80
41	Nanoparticles-based nanochannels assembled on a plastic flexible substrate for label-free immunosensing. <i>Nano Research</i> , 2015, 8, 1180-1188.	10.4	27
42	Lab-in-a-syringe using gold nanoparticles for rapid immunosensing of protein biomarkers. <i>Lab on A Chip</i> , 2015, 15, 399-405.	6.0	48
43	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, 162-169.	10.1	70
44	Nanochannel array device operating through Prussian blue nanoparticles for sensitive label-free immunodetection of a cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2015, 67, 107-114.	10.1	45
45	Alzheimer Disease Biomarker Detection Through Electrocatalytic Water Oxidation Induced by Iridium Oxide Nanoparticles. <i>Electroanalysis</i> , 2014, 26, 1287-1294.	2.9	37
46	Lateral Flow Biosensors Based on Gold Nanoparticles. <i>Comprehensive Analytical Chemistry</i> , 2014, 66, 569-605.	1.3	6
47	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, 4406-4414.	6.0	160
48	Nanoparticles for DNA, Protein, and Cell Electrochemical Detection. , 2014, , 209-241.		0
49	Application of Nanomaterials for DNA Sensing. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 305-332.	0.2	4
50	Paper-Based Electrodes for Nanoparticles Detection. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 662-666.	2.3	18
51	Design, Preparation, and Evaluation of a Fixed-Oriented Antibody/Gold-Nanoparticle Conjugate as an Immunosensing Label. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10753-10759.	8.0	89
52	Enhanced lateral flow immunoassay using gold nanoparticles loaded with enzymes. <i>Biosensors and Bioelectronics</i> , 2013, 40, 412-416.	10.1	263
53	Simple paper architecture modifications lead to enhanced sensitivity in nanoparticle based lateral flow immunoassays. <i>Lab on A Chip</i> , 2013, 13, 386-390.	6.0	111
54	Nanochannels for diagnostic of thrombin-related diseases in human blood. <i>Biosensors and Bioelectronics</i> , 2013, 40, 24-31.	10.1	80

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55	Casein modified gold nanoparticles for future theranostic applications. Biosensors and Bioelectronics, 2013, 40, 271-276.	10.1	25
56	Nanochannels Preparation and Application in Biosensing. ACS Nano, 2012, 6, 7556-7583.	14.6	184
57	Detection of Circulating Cancer Cells Using Electrocatalytic Gold Nanoparticles. Small, 2012, 8, 3605-3612.	10.0	57
58	Simple Monitoring of Cancer Cells Using Nanoparticles. Nano Letters, 2012, 12, 4164-4171.	9.1	94
59	Gold Nanoparticle-Based Electrochemical DNA Biosensors María Pedrero, Paloma Yañez-Seden, , 2012, , 121-158.		0
60	Size-dependent direct electrochemical detection of gold nanoparticles: application in magnetoimmunoassays. Nanoscale, 2011, 3, 3350.	5.6	53
61	A Nanochannel/Nanoparticle-Based Filtering and Sensing Platform for Direct Detection of a Cancer Biomarker in Blood. Small, 2011, 7, 675-682.	10.0	136
62	Gold nanoparticle-based electrochemical magnetoimmunosensor for rapid detection of anti-hepatitis B virus antibodies in human serum. Biosensors and Bioelectronics, 2010, 26, 1710-1714.	10.1	89
63	Label-free voltammetric immunosensor using a nanoporous membrane based platform. Electrochemistry Communications, 2010, 12, 859-863.	4.7	52
64	Electrochemical quantification of gold nanoparticles based on their catalytic properties toward hydrogen formation: Application in magnetoimmunoassays. Electrochemistry Communications, 2010, 12, 1501-1504.	4.7	39
65	Aptamers based electrochemical biosensor for protein detection using carbon nanotubes platforms. Biosensors and Bioelectronics, 2010, 26, 1715-1718.	10.1	92
66	Immunosensing using nanoparticles. Materials Today, 2010, 13, 24-34.	14.2	131
67	Electrochemical detection of proteins using nanoparticles: applications to diagnostics. Expert Opinion on Medical Diagnostics, 2010, 4, 21-37.	1.6	43
68	Nanoparticle based enhancement of electrochemical DNA hybridization signal using nanoporous electrodes. Chemical Communications, 2010, 46, 9007.	4.1	56
69	ICP-MS: a powerful technique for quantitative determination of gold nanoparticles without previous dissolving. Journal of Nanoparticle Research, 2009, 11, 2003-2011.	1.9	102
70	Controlling the electrochemical deposition of silver onto gold nanoparticles: Reducing interferences and increasing the sensitivity of magnetoimmuno assays. Biosensors and Bioelectronics, 2009, 24, 2475-2482.	10.1	67
71	Rapid Identification and Quantification of Tumor Cells Using an Electrocatalytic Method Based on Gold Nanoparticles. Analytical Chemistry, 2009, 81, 10268-10274.	6.5	100
72	Electrochemical Immunosensing Using Micro and Nanoparticles. Methods in Molecular Biology, 2009, 504, 145-155.	0.9	4

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73	DNA hybridization biosensors using polylysine modified SPCEs. Biosensors and Bioelectronics, 2008, 23, 1340-1346.	10.1	37
74	Silver, gold and the corresponding core shell nanoparticles: synthesis and characterization. Journal of Nanoparticle Research, 2008, 10, 97-106.	1.9	37
75	Electrochemical analysis with nanoparticle-based biosystems. TrAC - Trends in Analytical Chemistry, 2008, 27, 568-584.	11.4	104
76	DNA hybridization sensor based on aurothiomalate electroactive label on glassy carbon electrodes. Biosensors and Bioelectronics, 2007, 22, 1048-1054.	10.1	33
77	Aurothiomalate as an electroactive label for the determination of immunoglobulin M using glassy carbon electrodes as immunoassay transducers. Sensors and Actuators B: Chemical, 2006, 114, 473-481.	7.8	10
78	Determination of human serum albumin using aurothiomalate as electroactive label. Analytical and Bioanalytical Chemistry, 2006, 384, 742-750.	3.7	5
79	Catalytic Effect on Silver Electrodeposition of Gold Deposited on Carbon Electrodes. Electroanalysis, 2004, 16, 1561-1568.	2.9	10
80	Electrocatalytic detection of aurothiomalate on carbon electrodes. Analytica Chimica Acta, 2004, 524, 355-363.	5.4	14
81	Nanoparticles and Inductively Coupled Plasma Mass Spectroscopy-Based Biosensing. , 0, , 355-376.		0
82	Gold Nanoparticles: A Versatile Label for Affinity Electrochemical Biosensors. , 0, , 177-197.		9