

Alfredo de la Escosura-Muñiz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6988894/publications.pdf>

Version: 2024-02-01

82
papers

4,050
citations

94433

37
h-index

114465

63
g-index

86
all docs

86
docs citations

86
times ranked

5073
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced lateral flow immunoassay using gold nanoparticles loaded with enzymes. <i>Biosensors and Bioelectronics</i> , 2013, 40, 412-416.	10.1	263
2	Label-Free Impedimetric Aptasensor for Ochratoxin-A Detection Using Iridium Oxide Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 5167-5172.	6.5	208
3	Biosensors for plant pathogen detection. <i>Biosensors and Bioelectronics</i> , 2017, 93, 72-86.	10.1	201
4	Nanochannels Preparation and Application in Biosensing. <i>ACS Nano</i> , 2012, 6, 7556-7583.	14.6	184
5	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
6	A Nanochannel/Nanoparticle-Based Filtering and Sensing Platform for Direct Detection of a Cancer Biomarker in Blood. <i>Small</i> , 2011, 7, 675-682.	10.0	136
7	Immunosensing using nanoparticles. <i>Materials Today</i> , 2010, 13, 24-34.	14.2	131
8	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
9	Electrochemical analysis with nanoparticle-based biosystems. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 568-584.	11.4	104
10	ICP-MS: a powerful technique for quantitative determination of gold nanoparticles without previous dissolving. <i>Journal of Nanoparticle Research</i> , 2009, 11, 2003-2011.	1.9	102
11	Rapid Identification and Quantification of Tumor Cells Using an Electrocatalytic Method Based on Gold Nanoparticles. <i>Analytical Chemistry</i> , 2009, 81, 10268-10274.	6.5	100
12	Simple Monitoring of Cancer Cells Using Nanoparticles. <i>Nano Letters</i> , 2012, 12, 4164-4171.	9.1	94
13	Aptamers based electrochemical biosensor for protein detection using carbon nanotubes platforms. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1715-1718.	10.1	92
14	Gold nanoparticle-based electrochemical magnetoimmunosensor for rapid detection of anti-hepatitis B virus antibodies in human serum. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1710-1714.	10.1	89
15	Design, Preparation, and Evaluation of a Fixed-Orientation Antibody/Gold-Nanoparticle Conjugate as an Immunosensing Label. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10753-10759.	8.0	89
16	Electrochemical detection of plant virus using gold nanoparticle-modified electrodes. <i>Analytica Chimica Acta</i> , 2019, 1046, 123-131.	5.4	86
17	Electrochemical (Bio)Sensors for Pesticides Detection Using Screen-Printed Electrodes. <i>Biosensors</i> , 2020, 10, 32.	4.7	86
18	Nanochannels for diagnostic of thrombin-related diseases in human blood. <i>Biosensors and Bioelectronics</i> , 2013, 40, 24-31.	10.1	80

#	ARTICLE	IF	CITATIONS
19	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, 511-515.	10.1	80
20	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
21	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
22	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, 2475-2482.	10.1	67
23	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
24	Detection of Circulating Cancer Cells Using Electrocatalytic Gold Nanoparticles. <i>Small</i> , 2012, 8, 3605-3612.	10.0	57
25	Nanoparticle based enhancement of electrochemical DNA hybridization signal using nanoporous electrodes. <i>Chemical Communications</i> , 2010, 46, 9007.	4.1	56
26	Size-dependent direct electrochemical detection of gold nanoparticles: application in magnetoimmunoassays. <i>Nanoscale</i> , 2011, 3, 3350.	5.6	53
27	Signal enhancement on gold nanoparticle-based lateral flow tests using cellulose nanofibers. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111407.	10.1	53
28	Label-free voltammetric immunosensor using a nanoporous membrane based platform. <i>Electrochemistry Communications</i> , 2010, 12, 859-863.	4.7	52
29	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
30	Direct competitive immunosensor for Imidacloprid pesticide detection on gold nanoparticle-modified electrodes. <i>Talanta</i> , 2020, 209, 120465.	5.5	48
31	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
32	Electrochemical detection of proteins using nanoparticles: applications to diagnostics. <i>Expert Opinion on Medical Diagnostics</i> , 2010, 4, 21-37.	1.6	43
33	Nanochannels for electrical biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 134-150.	11.4	42
34	Electrochemical quantification of gold nanoparticles based on their catalytic properties toward hydrogen formation: Application in magnetoimmunoassays. <i>Electrochemistry Communications</i> , 2010, 12, 1501-1504.	4.7	39
35	Fully printed one-step biosensing device using graphene/AuNPs composite. <i>Biosensors and Bioelectronics</i> , 2019, 129, 238-244.	10.1	39
36	Iridium oxide (IV) nanoparticle-based lateral flow immunoassay. <i>Biosensors and Bioelectronics</i> , 2019, 132, 132-135.	10.1	38

#	ARTICLE	IF	CITATIONS
37	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
38	DNA hybridization biosensors using polylysine modified SPCEs. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1340-1346.	10.1	37
39	Silver, gold and the corresponding core shell nanoparticles: synthesis and characterization. <i>Journal of Nanoparticle Research</i> , 2008, 10, 97-106.	1.9	37
40	Alzheimer Disease Biomarker Detection Through Electrocatalytic Water Oxidation Induced by Iridium Oxide Nanoparticles. <i>Electroanalysis</i> , 2014, 26, 1287-1294.	2.9	37
41	Electrochemical Biosensors Based on Nanomaterials for Early Detection of Alzheimer's Disease. <i>Sensors</i> , 2020, 20, 4748.	3.8	36
42	Quantum Dot Bioconjugates for Diagnostic Applications. <i>Topics in Current Chemistry</i> , 2020, 378, 35.	5.8	36
43	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
44	A monoclonal antibody-based immunosensor for the electrochemical detection of imidacloprid pesticide. <i>Analyst</i> , 2019, 144, 2936-2941.	3.5	35
45	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
46	DNA hybridization sensor based on aurothiomalate electroactive label on glassy carbon electrodes. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1048-1054.	10.1	33
47	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
48	Nanoparticles as Emerging Labels in Electrochemical Immunosensors. <i>Sensors</i> , 2019, 19, 5137.	3.8	32
49	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
50	Nanoparticles-based nanochannels assembled on a plastic flexible substrate for label-free immunosensing. <i>Nano Research</i> , 2015, 8, 1180-1188.	10.4	27
51	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
52	Casein modified gold nanoparticles for future theranostic applications. <i>Biosensors and Bioelectronics</i> , 2013, 40, 271-276.	10.1	25
53	Electrical Evaluation of Bacterial Virulence Factors Using Nanopores. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13140-13146.	8.0	23
54	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

#	ARTICLE	IF	CITATIONS
55	Paperâ€Based Electrodes for Nanoparticles Detection. Particle and Particle Systems Characterization, 2013, 30, 662-666.	2.3	18
56	Electrocatalytic detection of aurothiomalate on carbon electrodes. Analytica Chimica Acta, 2004, 524, 355-363.	5.4	14
57	Iridium oxide (IV) nanoparticle-based electrocatalytic detection of PBDE. Biosensors and Bioelectronics, 2019, 127, 150-154.	10.1	13
58	Organic-based field effect transistors for protein detection fabricated by inkjet-printing. Organic Electronics, 2020, 84, 105794.	2.6	13
59	Catalytic Effect on Silver Electrodeposition of Gold Deposited on Carbon Electrodes. Electroanalysis, 2004, 16, 1561-1568.	2.9	10
60	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
61	Unfolded p53 as a Marker of Oxidative Stress in Mild Cognitive Impairment, Alzheimerâ€™s and Parkinsonâ€™s Disease. Current Alzheimer Research, 2021, 18, 695-700.	1.4	10
62	Gold Nanoparticles: A Versatile Label for Affinity Electrochemical Biosensors. , 0, , 177-197.		9
63	Production and printing of graphene oxide foam ink for electrocatalytic applications. Electrochemistry Communications, 2019, 98, 6-9.	4.7	9
64	Electrochemical quantification of Ag2S quantum dots: evaluation of different surface coating ligands for bacteria determination. Mikrochimica Acta, 2020, 187, 169.	5.0	9
65	Strip modification and alternative architectures for signal amplification in nanoparticle-based lateral flow assays. Analytical and Bioanalytical Chemistry, 2021, 413, 4111-4117.	3.7	9
66	Advances in quantum dots as diagnostic tools. Advances in Clinical Chemistry, 2022, 107, 1-40.	3.7	8
67	Electrical monitoring of infection biomarkers in chronic wounds using nanochannels. Biosensors and Bioelectronics, 2022, 209, 114243.	10.1	7
68	Lateral Flow Biosensors Based on Gold Nanoparticles. Comprehensive Analytical Chemistry, 2014, 66, 569-605.	1.3	6
69	Enhancing the electrocatalytic activity of palladium nanocluster tags by selective introduction of gold atoms: Application for a wound infection biomarker detection. Biosensors and Bioelectronics, 2022, 200, 113926.	10.1	6
70	Determination of human serum albumin using aurothiomalate as electroactive label. Analytical and Bioanalytical Chemistry, 2006, 384, 742-750.	3.7	5
71	Simple and rapid electrochemical quantification of water-stabilized HgSe nanoparticles of great concern in environmental studies. Talanta, 2019, 200, 72-77.	5.5	5
72	Protein and DNA Electrochemical Sensing Using Anodized Aluminum Oxide Nanochannel Arrays. Springer Series in Materials Science, 2015, , 271-291.	0.6	4

#	ARTICLE	IF	CITATIONS
73	Control of Electron Transfer in Immunonanosenors by Using Polyclonal and Monoclonal Antibodies. <i>Electroanalysis</i> , 2016, 28, 1795-1802.	2.9	4
74	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
75	Electrochemical Immunosensing Using Micro and Nanoparticles. <i>Methods in Molecular Biology</i> , 2009, 504, 145-155.	0.9	4
76	Application of Nanomaterials for DNA Sensing. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 305-332.	0.2	4
77	Electrocatalytic Detection: Magnetic Bead/Gold Nanoparticle Double-Labeled Primers for Electrochemical Detection of Isothermal Amplified <i>Leishmania</i> DNA (<i>Small</i> 2/2016). <i>Small</i> , 2016, 12, 204-204.	10.0	2
78	Nanoparticle/Nanochannels-Based Electrochemical Biosensors. <i>Nanoscience and Technology</i> , 2015, , 205-223.	1.5	1
79	Nanoparticles and Inductively Coupled Plasma Mass Spectroscopy-Based Biosensing. , 0, , 355-376.		0
80	Nanoparticles for DNA, Protein, and Cell Electrochemical Detection. , 2014, , 209-241.		0
81	Gold Nanoparticle-Based Electrochemical DNA Biosensors Mar Á Pedrero, Paloma Ya ́ ez-Seden � , , 2012, , 121-158.		0
82	Polymeric Magnetic Microparticles as Electrochemical Immunosensing Platforms. , 2020, 60, .		0