

Laura Garcia Carrascosa

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.

47
papers

2,033
citations

23
h-index

45
g-index

48
ext. papers

2,334
ext. citations

7.3
avg, IF

4.86
L-index

#	Paper	IF	Citations
47	Nanomechanical biosensors: a new sensing tool. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 196-206	14.6	207
46	Detecting exosomes specifically: a multiplexed device based on alternating current electrohydrodynamic induced nanoshearing. <i>Analytical Chemistry</i> , 2014 , 86, 11125-32	7.8	166
45	PARTICLE, a Triplex-Forming Long ncRNA, Regulates Locus-Specific Methylation in Response to Low-Dose Irradiation. <i>Cell Reports</i> , 2015 , 11, 474-85	10.6	143
44	Poly(A) Extensions of miRNAs for Amplification-Free Electrochemical Detection on Screen-Printed Gold Electrodes. <i>Analytical Chemistry</i> , 2016 , 88, 2000-5	7.8	108
43	Real time and label free profiling of clinically relevant exosomes. <i>Scientific Reports</i> , 2016 , 6, 30460	4.9	106
42	DNABare gold affinity interactions: mechanism and applications in biosensing. <i>Analytical Methods</i> , 2015 , 7, 7042-7054	3.2	101
41	Suitable combination of noble/ferromagnetic metal multilayers for enhanced magneto-plasmonic biosensing. <i>Optics Express</i> , 2011 , 19, 8336-46	3.3	90
40	Nanomechanics of the formation of DNA self-assembled monolayers and hybridization on microcantilevers. <i>Langmuir</i> , 2004 , 20, 9663-8	4	85
39	Epigenetically reprogrammed methylation landscape drives the DNA self-assembly and serves as a universal cancer biomarker. <i>Nature Communications</i> , 2018 , 9, 4915	17.4	80
38	Improved Biosensing Capability with Novel Suspended Nanodisks. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5344-5351	3.8	72
37	Label-free detection of DNA mutations by SPR: application to the early detection of inherited breast cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1173-82	4.4	68
36	A highly sensitive microsystem based on nanomechanical biosensors for genomics applications. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 2-10	8.5	62
35	Silicon Photonic Biosensors for Lab-on-a-Chip Applications. <i>Advances in Optical Technologies</i> , 2008 , 2008, 1-6		61
34	eMethylsorb: electrochemical quantification of DNA methylation at CpG resolution using DNA-gold affinity interactions. <i>Chemical Communications</i> , 2014 , 50, 13153-6	5.8	60
33	Molecular inversion probe-based SPR biosensing for specific, label-free and real-time detection of regional DNA methylation. <i>Chemical Communications</i> , 2014 , 50, 3585-8	5.8	59
32	Amplification-Free Detection of Gene Fusions in Prostate Cancer Urinary Samples Using mRNA-Gold Affinity Interactions. <i>Analytical Chemistry</i> , 2016 , 88, 6781-8	7.8	54
31	Detection of regional DNA methylation using DNA-graphene affinity interactions. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 615-621	11.8	49

30	Methylsorb: a simple method for quantifying DNA methylation using DNA-gold affinity interactions. <i>Analytical Chemistry</i> , 2014 , 86, 10179-85	7.8	48
29	eMethylsorb: rapid quantification of DNA methylation in cancer cells on screen-printed gold electrodes. <i>Analyst, The</i> , 2014 , 139, 6178-84	5	45
28	Label-free detection of exosomes using a surface plasmon resonance biosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1311-1318	4.4	44
27	Prospects of optical biosensors for emerging label-free RNA analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 80, 177-189	14.6	34
26	Sensitive and label-free biosensing of RNA with predicted secondary structures by a triplex affinity capture method. <i>Nucleic Acids Research</i> , 2012 , 40, e56	20.1	28
25	DNA-directed assembly of copper nanoblocks with inbuilt fluorescent and electrochemical properties: Application in simultaneous amplification-free analysis of multiple RNA species. <i>Nano Research</i> , 2018 , 11, 940-952	10	26
24	Alternating current electrohydrodynamics in microsystems: Pushing biomolecules and cells around on surfaces. <i>Biomicrofluidics</i> , 2015 , 9, 061501	3.2	21
23	Quantitative evaluation of alternatively spliced mRNA isoforms by label-free real-time plasmonic sensing. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 118-125	11.8	20
22	Detection of flagellin by interaction with human recombinant TLR5 immobilized in liposomes. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 1267-81	4.4	16
21	Interfacial nano-mixing in a miniaturised platform enables signal enhancement and in situ detection of cancer biomarkers. <i>Nanoscale</i> , 2018 , 10, 10884-10890	7.7	15
20	PARTICLE triplexes cluster in the tumor suppressor WWOX and may extend throughout the human genome. <i>Scientific Reports</i> , 2017 , 7, 7163	4.9	15
19	Detection of aberrant protein phosphorylation in cancer using direct gold-protein affinity interactions. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 8-14	11.8	14
18	DNA Methylation-Based Point-of-Care Cancer Detection: Challenges and Possibilities. <i>Trends in Molecular Medicine</i> , 2019 , 25, 955-966	11.5	14
17	Understanding the role of thiol and disulfide self-assembled DNA receptor monolayers for biosensing applications. <i>European Biophysics Journal</i> , 2010 , 39, 1433-44	1.9	14
16	Electrochemical detection of protein glycosylation using lectin and protein-gold affinity interactions. <i>Analyst, The</i> , 2016 , 141, 2356-61	5	13
15	An exosomal- and interfacial-biosensing based strategy for remote monitoring of aberrantly phosphorylated proteins in lung cancer cells. <i>Biomaterials Science</i> , 2018 , 6, 2336-2341	7.4	12
14	Surface plasmon resonance biosensors for highly sensitive detection in real samples 2009 ,		10
13	Biosensing made easy with PEG-targeted bi-specific antibodies. <i>Chemical Communications</i> , 2016 , 52, 5739-5		10

12	A multiplex microplatform for the detection of multiple DNA methylation events using gold-DNA affinity. <i>Analyst, The</i> , 2017 , 142, 3573-3578	5	9
11	Influence of the linker type on the Au-S binding properties of thiol and disulfide-modified DNA self-assembly on polycrystalline gold. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3301-8	3.6	9
10	Capture and On-chip analysis of Melanoma Cells Using Tunable Surface Shear forces. <i>Scientific Reports</i> , 2016 , 6, 19709	4.9	8
9	Biosensors based on cantilevers. <i>Methods in Molecular Biology</i> , 2009 , 504, 51-71	1.4	8
8	Phosphoprotein Biosensors for Monitoring Pathological Protein Structural Changes. <i>Trends in Biotechnology</i> , 2020 , 38, 519-531	15.1	6
7	The effects of lipids and surfactants on TLR5-proteoliposome functionality for flagellin detection using surface plasmon resonance biosensing. <i>Talanta</i> , 2014 , 126, 136-44	6.2	5
6	Lab-on-a-chip platforms based on highly sensitive nanophotonic Si biosensors for single nucleotide DNA testing 2007 ,		5
5	Methylation dependent gold adsorption behaviour identifies cancer derived extracellular vesicular DNA. <i>Nanoscale Horizons</i> , 2020 , 5, 1317-1323	10.8	4
4	Reading Conformational Changes in Proteins with a New Colloidal-Based Interfacial Biosensing System. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11125-11135	9.5	3
3	Methylsorb: A simple method for quantifying DNA methylation using DNA-gold affinity interactions 2014 ,		2
2	Nanomechanics for specific biological detection 2003 , 5118, 197		2
1	Study of the Adsorption of Sulfur-Derivatized Single Stranded DNA on Gold by Atomic Force Microscopy and the Cantilever Bending Technique. <i>Sensor Letters</i> , 2006 , 4, 275-280	0.9	2