

Lorena DiÃ©guez

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

955
citations

471371

17
h-index

454834

30
g-index

39
all docs

39
docs citations

39
times ranked

1412
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of fluorescent carbon dots from spices for in vitro imaging and tumour cell growth inhibition. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 530-544.	1.5	139
2	Fast and efficient microfluidic cell filter for isolation of circulating tumor cells from unprocessed whole blood of colorectal cancer patients. <i>Scientific Reports</i> , 2019, 9, 8032.	1.6	73
3	Effect of the Refractive Index of Buffer Solutions in Evanescent Optical Biosensors. <i>Sensor Letters</i> , 2009, 7, 851-855.	0.4	58
4	Combination of Microfluidic Loop-Mediated Isothermal Amplification with Gold Nanoparticles for Rapid Detection of Salmonella spp. in Food Samples. <i>Frontiers in Microbiology</i> , 2017, 8, 2159.	1.5	48
5	Gold Nanostars for the Detection of Foodborne Pathogens via Surface-Enhanced Raman Scattering Combined with Microfluidics. <i>ACS Applied Nano Materials</i> , 2019, 2, 6081-6086.	2.4	47
6	Efficient microfluidic negative enrichment of circulating tumor cells in blood using roughened PDMS. <i>Analyst</i> , The, 2015, 140, 3565-3572.	1.7	44
7	Electrochemical tuning of the stability of PLL/DNA multilayers. <i>Soft Matter</i> , 2009, 5, 2415.	1.2	39
8	Sialyl-Tn identifies muscle-invasive bladder cancer basal and luminal subtypes facing decreased survival, being expressed by circulating tumor cells and metastases. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2017, 35, 675.e1-675.e8.	0.8	39
9	Amplification-free SERS analysis of DNA mutation in cancer cells with single-base sensitivity. <i>Nanoscale</i> , 2019, 11, 7781-7789.	2.8	37
10	Profiling DNA mutation patterns by SERS fingerprinting for supervised cancer classification. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112392.	5.3	32
11	Exploring sialyl-Tn expression in microfluidic-isolated circulating tumour cells: A novel biomarker and an analytical tool for precision oncology applications. <i>New Biotechnology</i> , 2019, 49, 77-87.	2.4	31
12	Multifunctional Gold Nanoparticles for the SERS Detection of Pathogens Combined with a LAMP- <i>in situ</i> Microdroplets Approach. <i>Materials</i> , 2020, 13, 1934.	1.3	28
13	Portable sensing system based on electrochemical impedance spectroscopy for the simultaneous quantification of free and total microcystin-LR in freshwaters. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111550.	5.3	26
14	Optical Gratings Coated with Thin Si ₃ N ₄ Layer for Efficient Immunosensing by Optical Waveguide Lightmode Spectroscopy. <i>Biosensors</i> , 2012, 2, 114-126.	2.3	25
15	HER2 Expression in Circulating Tumour Cells Isolated from Metastatic Breast Cancer Patients Using a Size-Based Microfluidic Device. <i>Cancers</i> , 2021, 13, 4446.	1.7	22
16	A smart microfluidic platform for rapid multiplexed detection of foodborne pathogens. <i>Food Control</i> , 2020, 114, 107242.	2.8	20
17	Surface enhanced Raman spectroscopy for tumor nucleic acid: Towards cancer diagnosis and precision medicine. <i>Biosensors and Bioelectronics</i> , 2022, 204, 114075.	5.3	20
18	Highly efficient DNA extraction and purification from olive oil on a washable and reusable miniaturized device. <i>Analytica Chimica Acta</i> , 2018, 1020, 30-40.	2.6	18

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19	Electrochemical Sensing in 3D Cell Culture Models: New Tools for Developing Better Cancer Diagnostics and Treatments. <i>Cancers</i> , 2021, 13, 1381.	1.7	18
20	Performance assessment of 11 commercial serological tests for SARS-CoV-2 on hospitalised COVID-19 patients. <i>International Journal of Infectious Diseases</i> , 2021, 104, 661-669.	1.5	18
21	Multiplexing Liquid Biopsy with Surface-Enhanced Raman Scattering Spectroscopy. <i>Advanced Optical Materials</i> , 2021, 9, 2001171.	3.6	17
22	The Significance of Circulating Tumour Cells in the Clinic. <i>Acta Cytologica</i> , 2019, 63, 466-478.	0.7	16
23	Microfluidics-Driven Fabrication of a Low Cost and Ultrasensitive SERS-Based Paper Biosensor. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1387.	1.3	15
24	Target Score TM A Proteomics Data Selection Tool Applied to Esophageal Cancer Identifies GLUT1-Sialyl Tn Glycoforms as Biomarkers of Cancer Aggressiveness. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1664.	1.8	14
25	Enhanced magnetic microcytometer with 3D flow focusing for cell enumeration. <i>Lab on A Chip</i> , 2018, 18, 2593-2603.	3.1	12
26	Discriminating Epithelial to Mesenchymal Transition Phenotypes in Circulating Tumor Cells Isolated from Advanced Gastrointestinal Cancer Patients. <i>Cells</i> , 2022, 11, 376.	1.8	12
27	Deposition of ITO Thin Films onto PMMA Substrates for Waveguide Based Biosensing Devices. <i>Journal of Nano Research</i> , 2012, 17, 75-83.	0.8	11
28	A SERS-based 3D nanobiosensor: towards cell metabolite monitoring. <i>Materials Advances</i> , 2020, 1, 1613-1621.	2.6	10
29	Detection of Foodborne Pathogens Using Nanoparticles. <i>Advantages and Trends.</i> , 2016, , 183-201.		9
30	Robust and Flexible Fabrication of Chemical Micropatterns for Tumor Spheroid Preparation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10162-10171.	4.0	8
31	Phenotypic Analysis of Urothelial Exfoliated Cells in Bladder Cancer via Microfluidic Immunoassays: Sialyl-Tn as a Novel Biomarker in Liquid Biopsies. <i>Frontiers in Oncology</i> , 2020, 10, 1774.	1.3	8
32	Use of some cost-effective technologies for a routine clinical pathology laboratory. <i>Lab on A Chip</i> , 2021, 21, 4330-4351.	3.1	8
33	In Vitro Evaluation of Lipopolyplexes for Gene Transfection: Comparing 2D, 3D and Microdroplet-Enabled Cell Culture. <i>Molecules</i> , 2020, 25, 3277.	1.7	7
34	Disposable microfluidic micromixers for effective capture of <i>Cryptosporidium parvum</i> oocysts from water samples. <i>Journal of Biological Engineering</i> , 2018, 12, 4.	2.0	6
35	Custom Magnet Design for a Multi-Channel Magnetic Microcytometer. <i>IEEE Transactions on Magnetism</i> , 2018, 54, 1-5.	1.2	6
36	Single-use microfluidic device for purification and concentration of environmental DNA from river water. <i>Talanta</i> , 2021, 226, 122109.	2.9	6

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37	Second order effects of aspect ratio variations in high sensitivity grating couplers. <i>Microelectronic Engineering</i> , 2007, 84, 1775-1778.	1.1	3
38	Advances in Microfluidics for the Implementation of Liquid Biopsy in Clinical Routine. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 553-590.	0.8	2