Claudio Parolo

List of Publications by Year
in descending order

44 papers	2,734 citations	236912 25 h-index	289230 40 g-index
45 all docs	45 docs citations	45 times ranked	3461 citing authors

#	Article	IF	Citations
1	Paper-based nanobiosensors for diagnostics. Chemical Society Reviews, 2013, 42, 450-457.	38.1	481
2	Enhanced lateral flow immunoassay using gold nanoparticles loaded with enzymes. Biosensors and Bioelectronics, 2013, 40, 412-416.	10.1	263
3	Tutorial: design and fabrication of nanoparticle-based lateral-flow immunoassays. Nature Protocols, 2020, 15, 3788-3816.	12.0	235
4	A Serological Point-of-Care Test for the Detection of IgG Antibodies against Ebola Virus in Human Survivors. ACS Nano, 2018, 12, 63-73.	14.6	163
5	Paper-Based Potentiometric Ion Sensing. Analytical Chemistry, 2014, 86, 9548-9553.	6.5	140
6	Immunosensing using nanoparticles. Materials Today, 2010, 13, 24-34.	14.2	131
7	Rapid and Efficient Detection of the SARS-CoV-2 Spike Protein Using an Electrochemical Aptamer-Based Sensor. ACS Sensors, 2021, 6, 3093-3101.	7.8	129
8	Simple paper architecture modifications lead to enhanced sensitivity in nanoparticle based lateral flow immunoassays. Lab on A Chip, 2013, 13, 386-390.	6.0	111
9	Paper-based electroanalytical devices with an integrated, stable reference electrode. Lab on A Chip, 2013, 13, 4103.	6.0	95
10	Design, Preparation, and Evaluation of a Fixed-Orientation Antibody/Gold-Nanoparticle Conjugate as an Immunosensing Label. ACS Applied Materials & Interfaces, 2013, 5, 10753-10759.	8.0	89
11	Calibration-Free Measurement of Phenylalanine Levels in the Blood Using an Electrochemical Aptamer-Based Sensor Suitable for Point-of-Care Applications. ACS Sensors, 2019, 4, 3227-3233.	7.8	78
12	Real-Time Monitoring of a Protein Biomarker. ACS Sensors, 2020, 5, 1877-1881.	7.8	60
13	Size-dependent direct electrochemical detection of gold nanoparticles: application in magnetoimmunoassays. Nanoscale, 2011, 3, 3350.	5.6	53
14	Lab-in-a-syringe using gold nanoparticles for rapid immunosensing of protein biomarkers. Lab on A Chip, 2015, 15, 399-405.	6.0	48
15	Smart Chip for Visual Detection of Bacteria Using the Electrochromic Properties of Polyaniline. Analytical Chemistry, 2019, 91, 14960-14966.	6.5	44
16	Experimental Comparison in Sensing Breast Cancer Mutations by Signal ON and Signal OFF Paper-Based Electroanalytical Strips. Analytical Chemistry, 2020, 92, 1674-1679.	6.5	43
17	Lateral flow assay modified with time-delay wax barriers as a sensitivity and signal enhancement strategy. Biosensors and Bioelectronics, 2020, 168, 112559.	10.1	43
18	Magnetic nanoparticle-molecular imprinted polymer: A new impedimetric sensor for tributyltin detection. Electrochemistry Communications, 2017, 82, 6-11.	4.7	37

#	Article	IF	Citations
19	Expanding the Scope of Protein-Detecting Electrochemical DNA â€œScaffoldâ€•Sensors. ACS Sensors, 2018, 3, 1271-1275.	7.8	37
20	An electrochemical aptamer-based sensor for the rapid and convenient measurement of l-tryptophan. Analytical and Bioanalytical Chemistry, 2019, 411, 4629-4635.	3.7	35
21	Open Source Software for the Real-Time Control, Processing, and Visualization of High-Volume Electrochemical Data. Analytical Chemistry, 2019, 91, 12321-12328.	6.5	33
22	Electrochromism: An emerging and promising approach in (bio)sensing technology. Materials Today, 2021, 50, 476-498.	14.2	33
23	Nanodiagnostics to Face SARS-CoV-2 and Future Pandemics: From an Idea to the Market and Beyond. ACS Nano, 2021, 15, 17137-17149.	14.6	32
24	Low-Cost, User-Friendly, All-Integrated Smartphone-Based Microplate Reader for Optical-Based Biological and Chemical Analyses. Analytical Chemistry, 2022, 94, 1271-1285.	6.5	29
25	A plug, print & play inkjet printing and impedance-based biosensing technology operating through a smartphone for clinical diagnostics. Biosensors and Bioelectronics, 2022, 196, 113737.	10.1	28
26	E-DNA scaffold sensors and the reagentless, single-step, measurement of HIV-diagnostic antibodies in human serum. Microsystems and Nanoengineering, 2020, 6, 13.	7.0	27
27	An electrochemical scaffold sensor for rapid syphilis diagnosis. Analyst, The, 2019, 144, 5277-5283.	3.5	26
28	The Microbiome Meets Nanotechnology: Opportunities and Challenges in Developing New Diagnostic Devices. Advanced Materials, 2021, 33, e2006104.	21.0	24
29	Gold nanoparticles decorated with a ferrocene derivative as a potential shift-based transducing system of interest for sensitive immunosensing. Journal of Materials Chemistry B, 2013, 1, 2951.	5.8	23
30	Paper-Based Electrophoretic Bioassay: Biosensing in Whole Blood Operating via Smartphone. Analytical Chemistry, 2021, 93, 3112-3121.	6.5	21
31	Lateral flow device for water fecal pollution assessment: from troubleshooting of its microfluidics using bioluminescence to colorimetric monitoring of generic Escherichia coli. Lab on A Chip, 2021, 21, 2417-2426.	6.0	19
32	Paperâ€Based Electrodes for Nanoparticles Detection. Particle and Particle Systems Characterization, 2013, 30, 662-666.	2.3	18
33	Annexin-V/quantum dot probes for multimodal apoptosis monitoring in living cells: improving bioanalysis using electrochemistry. Nanoscale, 2015, 7, 4097-4104.	5.6	17
34	Tuneable plasmonic gold dendrimer nanochains for sensitive disease detection. Journal of Materials Chemistry B, 2017, 5, 7262-7266.	5.8	17
35	A Novel Ratiometric Fluorescent Approach for the Modulation of the Dynamic Range of Lateral Flow Immunoassays. Advanced Materials Technologies, 2022, 7, .	5.8	17
36	Quantifying Biomolecular Binding Constants using Video Paper Analytical Devices. Chemistry - A European Journal, 2018, 24, 9783-9787.	3.3	16

#	Article	IF	Citations
37	Paper-based biosensors for cancer diagnostics. Trends in Chemistry, 2022, 4, 554-567.	8.5	14
38	A Programmable Electrochemical Yâ€Shaped DNA Scaffold Sensor for the Singleâ€Step Detection of Antibodies and Proteins in Untreated Biological Fluids. Advanced Functional Materials, 2022, 32, .	14.9	10
39	Nanoparticle-based lateral flow assays. Comprehensive Analytical Chemistry, 2020, 89, 313-359.	1.3	5
40	Control of Electronâ€transfer in Immunonanosensors by Using Polyclonal and Monoclonal Antibodies. Electroanalysis, 2016, 28, 1795-1802.	2.9	4
41	Wireless paper-based biosensor reader for the detection of infectious diseases at the point of care. , 2016, , .		4
42	Optical smartphone-based sensing: diagnostic of biomarkers. , 2022, , 277-302.		1
43	Point-of-Care Sensors in Clinical Environments: Potential and Challenges. , 2022, , .		1
44	Continuous monitoring of molecular biomarkers in microfluidic devices. Progress in Molecular Biology and Translational Science, 2022, 187, 295-333.	1.7	0