

Enrique Valera

List of Publications by Year in descending order

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44
papers

1,311
citations

394286

19
h-index

360920

35
g-index

46
all docs

46
docs citations

46
times ranked

1850
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid isothermal amplification and portable detection system for SARS-CoV-2. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22727-22735.	3.3	314
2	COVID-19 Point-of-Care Diagnostics: Present and Future. ACS Nano, 2021, 15, 7899-7906.	7.3	115
3	An impedimetric immunosensor based on interdigitated microelectrodes (ID $\frac{1}{4}$ E) for the determination of atrazine residues in food samples. Biosensors and Bioelectronics, 2008, 23, 1367-1373.	5.3	86
4	Biosensors for pharmaceuticals based on novel technology. TrAC - Trends in Analytical Chemistry, 2011, 30, 541-553.	5.8	66
5	Fabrication of silicon oxide microneedles from macroporous silicon. Sensors and Actuators B: Chemical, 2005, 109, 135-140.	4.0	58
6	Impedimetric immunosensor for atrazine detection using interdigitated $\frac{1}{4}$ -electrodes (ID $\frac{1}{4}$ E's). Sensors and Actuators B: Chemical, 2007, 125, 526-537.	4.0	53
7	Conductimetric immunosensor for atrazine detection based on antibodies labelled with gold nanoparticles. Sensors and Actuators B: Chemical, 2008, 134, 95-103.	4.0	50
8	Detection of SARS-CoV-2 Virus Amplification Using a Crumpled Graphene Field-Effect Transistor Biosensor. ACS Sensors, 2021, 6, 4461-4470.	4.0	42
9	Development of a Coulombimetric immunosensor based on specific antibodies labeled with CdS nanoparticles for sulfonamide antibiotic residues analysis and its application to honey samples. Biosensors and Bioelectronics, 2013, 43, 211-217.	5.3	37
10	Label-free SARS-CoV-2 detection and classification using phase imaging with computational specificity. Light: Science and Applications, 2021, 10, 176.	7.7	37
11	Determination of atrazine residues in red wine samples. A conductimetric solution. Food Chemistry, 2010, 122, 888-894.	4.2	33
12	Coulombimetric immunosensor for paraquat based on electrochemical nanoprobe. Sensors and Actuators B: Chemical, 2014, 194, 353-360.	4.0	33
13	Fabrication of flexible interdigitated $\frac{1}{4}$ -electrodes (FID $\frac{1}{4}$ Es) for the development of a conductimetric immunosensor for atrazine detection based on antibodies labelled with gold nanoparticles. Microelectronic Engineering, 2010, 87, 167-173.	1.1	26
14	Electrochemical coding strategies using metallic nanoprobe for biosensing applications. TrAC - Trends in Analytical Chemistry, 2016, 79, 9-22.	5.8	26
15	A microfluidic biochip platform for electrical quantification of proteins. Lab on A Chip, 2018, 18, 1461-1470.	3.1	26
16	Electrochemical nanoprobe-based immunosensor for deoxynivalenol mycotoxin residues analysis in wheat samples. Analytical and Bioanalytical Chemistry, 2019, 411, 1915-1926.	1.9	25
17	Microfluidic point-of-care device for detection of early strains and B.1.1.7 variant of SARS-CoV-2 virus. Lab on A Chip, 2022, 22, 1297-1309.	3.1	25
18	Smartphone-imaged microfluidic biochip for measuring CD64 expression from whole blood. Analyst, The, 2019, 144, 3925-3935.	1.7	23

#	ARTICLE	IF	CITATIONS
19	Development and validation of an immunosensor for monocyte chemotactic protein 1 using a silicon photonic microring resonator biosensing platform. <i>Clinical Biochemistry</i> , 2016, 49, 121-126.	0.8	21
20	Smartphone clip-on instrument and microfluidic processor for rapid sample-to-answer detection of Zika virus in whole blood using spatial RT-LAMP. <i>Analyst, The</i> , 2022, 147, 3838-3853.	1.7	21
21	Reverse Transcription Loop-Mediated Isothermal Amplification Assay for Ultrasensitive Detection of SARS-CoV-2 in Saliva and Viral Transport Medium Clinical Samples. <i>Analytical Chemistry</i> , 2021, 93, 7797-7807.	3.2	19
22	Single frequency impedimetric immunosensor for atrazine detection. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 921-928.	4.0	18
23	Development of microstructured zeolite films as highly accessible catalytic coatings for microreactors. <i>Journal of Catalysis</i> , 2007, 250, 190-194.	3.1	16
24	An electrochemical magneto immunosensor (EMIS) for the determination of paraquat residues in potato samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7841-7849.	1.9	16
25	Precision immunoprofiling to reveal diagnostic signatures for latent tuberculosis infection and reactivation risk stratification. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 16-25.	0.6	13
26	Simultaneous electrical detection of IL-6 and PCT using a microfluidic biochip platform. <i>Biomedical Microdevices</i> , 2020, 22, 36.	1.4	13
27	Diagnostic and prognostic capabilities of a biomarker and EMR-based machine learning algorithm for sepsis. <i>Clinical and Translational Science</i> , 2021, 14, 1578-1589.	1.5	12
28	Portable Pathogen Diagnostics Using Microfluidic Cartridges Made from Continuous Liquid Interface Production Additive Manufacturing. <i>Analytical Chemistry</i> , 2021, 93, 10048-10055.	3.2	12
29	Rapid, multiplexed detection of biomolecules using electrically distinct hydrogel beads. <i>Lab on A Chip</i> , 2020, 20, 2274-2283.	3.1	11
30	Magnetically-actuated, bead-enhanced silicon photonic immunosensor. <i>Analytical Methods</i> , 2015, 7, 8539-8544.	1.3	10
31	Overcoming the limitations of COVID-19 diagnostics with nanostructures, nucleic acid engineering, and additive manufacturing. <i>Current Opinion in Solid State and Materials Science</i> , 2022, 26, 100966.	5.6	9
32	Microporous silicon for CMOS compatible MST. , 0, , .		8
33	Properties of oxidized porous silicon as insulator material for RF applications. , 0, , .		5
34	Steady-State and Transient Conductivity of Colloidal Solutions of Gold Nanobeads. <i>IEEE Nanotechnology Magazine</i> , 2007, 6, 504-508.	1.1	4
35	Application of Bioassays/Biosensors for the Analysis of Pharmaceuticals in Environmental Samples. <i>Comprehensive Analytical Chemistry</i> , 2013, , 195-229.	0.7	4
36	A microfluidic technique to estimate antigen expression on particles. <i>APL Bioengineering</i> , 2017, 1, 016103.	3.3	4

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37	Detecting sepsis by observing neutrophil motility. Nature Biomedical Engineering, 2018, 2, 197-198.	11.6	4
38	Spatial mapping of cancer tissues by OMICS technologies. Biochimica Et Biophysica Acta: Reviews on Cancer, 2022, 1877, 188663.	3.3	4
39	Development and impedimetric evaluation of a magnetic interdigitated microelectrode. Sensors and Actuators B: Chemical, 2014, 203, 444-451.	4.0	3
40	Injection system based on silicon oxide microneedles. , 0, , .		0
41	High frequency response of a novel biosensor based on interdigitated Ti/Au -electrodes (ID Ti/Au 's). , 2007, , .		0
42	TiO_2 -Porous silicon (TiO_2 /PS) gas sensor based on interdigitated TiO_2 -electrodes (ID TiO_2 /E's). , 2007, , .		0
43	Interdigitated TiO_2 -electrodes for development of an impedimetric immunosensor for atrazine detection. , 2009, , .		0
44	Eavesdropping on interactions. Nature Chemistry, 2015, 7, 767-769.	6.6	0