

# Marc Parrilla

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

2,156  
citations

257101

24  
h-index

454577

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2092  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wearable Electrochemical Sensors for the Monitoring and Screening of Drugs. ACS Sensors, 2020, 5, 2679-2700.	4.0	227
2	Wearable potentiometric ion sensors. TrAC - Trends in Analytical Chemistry, 2019, 110, 303-320.	5.8	211
3	A Textile-Based Stretchable Multi-Ion Potentiometric Sensor. Advanced Healthcare Materials, 2016, 5, 996-1001.	3.9	196
4	Paper-Based Ion-Selective Potentiometric Sensors. Analytical Chemistry, 2012, 84, 4695-4702.	3.2	189
5	Potentiometric sensors using cotton yarns, carbon nanotubes and polymeric membranes. Analyst, The, 2013, 138, 5208.	1.7	182
6	Wearable All-Solid-State Potentiometric Microneedle Patch for Intradermal Potassium Detection. Analytical Chemistry, 2019, 91, 1578-1586.	3.2	116
7	Epidermal Patch with Glucose Biosensor: pH and Temperature Correction toward More Accurate Sweat Analysis during Sport Practice. Analytical Chemistry, 2020, 92, 10153-10161.	3.2	116
8	Wearable Potentiometric Sensors for Medical Applications. Sensors, 2019, 19, 363.	2.1	100
9	Wearable Potentiometric Ion Patch for On-Body Electrolyte Monitoring in Sweat: Toward a Validation Strategy to Ensure Physiological Relevance. Analytical Chemistry, 2019, 91, 8644-8651.	3.2	93
10	Wearable Potentiometric Sensors Based on Commercial Carbon Fibres for Monitoring Sodium in Sweat. Electroanalysis, 2016, 28, 1267-1275.	1.5	90
11	A Wearable Paper-Based Sweat Sensor for Human Perspiration Monitoring. Advanced Healthcare Materials, 2019, 8, e1900342.	3.9	67
12	Wearable Self-Powered Electrochemical Devices for Continuous Health Management. Advanced Functional Materials, 2021, 31, 2107042.	7.8	58
13	Paper-based enzymatic electrode with enhanced potentiometric response for monitoring glucose in biological fluids. Biosensors and Bioelectronics, 2017, 90, 110-116.	5.3	54
14	Wearable hollow microneedle sensing patches for the transdermal electrochemical monitoring of glucose. Talanta, 2022, 249, 123695.	2.9	50
15	A novel wireless paper-based potentiometric platform for monitoring glucose in blood. Lab on A Chip, 2017, 17, 2500-2507.	3.1	45
16	Wearable wristband-based electrochemical sensor for the detection of phenylalanine in biofluids. Biosensors and Bioelectronics, 2022, 197, 113764.	5.3	36
17	Cytotoxicity Study of Ionophore-Based Membranes: Toward On-Body and in Vivo Ion Sensing. ACS Sensors, 2019, 4, 2524-2535.	4.0	35
18	Identifying Electrochemical Fingerprints of Ketamine with Voltammetry and Liquid Chromatography-Mass Spectrometry for Its Detection in Seized Samples. Analytical Chemistry, 2020, 92, 13485-13492.	3.2	35

#	ARTICLE	IF	CITATIONS
19	Enhanced electrochemical detection of illicit drugs in oral fluid by the use of surfactant-mediated solution. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130659.	4.0	35
20	Derivatization of amphetamine to allow its electrochemical detection in illicit drug seizures. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129819.	4.0	31
21	Balloon-Embedded Sensors Withstanding Extreme Multiaxial Stretching and Global Bending Mechanical Stress: Towards Environmental and Security Monitoring. <i>Advanced Materials Technologies</i> , 2016, 1, 1600061.	3.0	28
22	Electrochemical profiling and liquid chromatography-mass spectrometry characterization of synthetic cathinones: From methodology to detection in forensic samples. <i>Drug Testing and Analysis</i> , 2021, 13, 1282-1294.	1.6	28
23	The opportunity of 6-monoacetylmorphine to selectively detect heroin at preanodized screen printed electrodes. <i>Talanta</i> , 2021, 226, 122005.	2.9	28
24	Enhanced Potentiometric Detection of Hydrogen Peroxide Using a Platinum Electrode Coated with Nafion. <i>Electroanalysis</i> , 2017, 29, 223-230.	1.5	24
25	Analytical techniques for the detection of amphetamine-type substances in different matrices: A comprehensive review. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 145, 116447.	5.8	23
26	Rapid On-Site Detection of Illicit Drugs in Smuggled Samples with a Portable Electrochemical Device. <i>Chemosensors</i> , 2022, 10, 108.	1.8	17
27	Towards Developing a Screening Strategy for Ecstasy: Revealing the Electrochemical Profile. <i>ChemElectroChem</i> , 2021, 8, 4826-4834.	1.7	13
28	Capturing the Real-Time Hydrolytic Degradation of a Library of Biomedical Polymers by Combining Traditional Assessment and Electrochemical Sensors. <i>Biomacromolecules</i> , 2021, 22, 949-960.	2.6	10
29	Paraformaldehyde-coated electrochemical sensor for improved on-site detection of amphetamine in street samples. <i>Microchemical Journal</i> , 2022, 179, 107518.	2.3	9
30	Electrochemical methods for on-site multidrug detection at festivals. <i>Sensors &amp; Diagnostics</i> , 2022, 1, 793-802.	1.9	5
31	Portable Electrochemical Detection of Illicit Drugs in Smuggled Samples: Towards More Secure Borders. , 2021, 5, .		2
32	Electrochemical Detection of Cocaine in Authentic Oral Fluid. , 2022, 16, .		1