

# Luis Eduardo Arroyo

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

689  
citations

623734

14  
h-index

580821

25  
g-index

39  
all docs

39  
docs citations

39  
times ranked

737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reductive and oxidative degradation of iopamidol, iodinated X-ray contrast media, by Fe(III)-oxalate under UV and visible light treatment. <i>Water Research</i> , 2014, 67, 144-153.	11.3	107
2	Optimization and validation of a Laser Ablation Inductively Coupled Plasma Mass Spectrometry method for the routine analysis of soils and sediments. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 16-25.	2.9	88
3	Fast identification of inorganic and organic gunshot residues by LIBS and electrochemical methods. <i>Forensic Chemistry</i> , 2018, 8, 146-156.	2.8	47
4	UV and solar TiO <sub>2</sub> photocatalysis of brevetoxins (PbTx <sub>s</sub> ). <i>Toxicon</i> , 2010, 55, 1008-1016.	1.6	34
5	Qualitative analysis of seized synthetic cannabinoids and synthetic cathinones by gas chromatography triple quadrupole tandem mass spectrometry. <i>Drug Testing and Analysis</i> , 2015, 7, 121-130.	2.6	31
6	Electrochemical detection of fentanyl with screen-printed carbon electrodes using square-wave adsorptive stripping voltammetry for forensic applications. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114425.	3.8	30
7	Evaluation of the Simultaneous Analysis of Organic and Inorganic Gunshot Residues Within a Large Population Data Set Using Electrochemical Sensors*. <i>Journal of Forensic Sciences</i> , 2020, 65, 1935-1944.	1.6	21
8	Novel LIBS method for micro-spatial chemical analysis of inorganic gunshot residues. <i>Journal of Chemometrics</i> , 2021, 35, .	1.3	21
9	Analysis of Soils and Sediments by Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS): An Innovative Tool for Environmental Forensics. <i>Environmental Forensics</i> , 2010, 11, 315-327.	2.6	19
10	Kinetic, product, and computational studies of the ultrasonic induced degradation of 4-methylcyclohexanemethanol (MCHM). <i>Water Research</i> , 2017, 126, 164-171.	11.3	19
11	DART-MS/MS screening for the determination of 1,3-dimethylamylamine and undeclared stimulants in seized dietary supplements from Brazil. <i>Forensic Chemistry</i> , 2018, 8, 134-145.	2.8	18
12	Development of tailor-made inorganic gunshot residue (IGSR) microparticle standards and characterization with a multi-technique approach. <i>Talanta</i> , 2021, 225, 121984.	5.5	18
13	Detection of organic and inorganic gunshot residues from hands using complexing agents and LC-MS/MS. <i>Analytical Methods</i> , 2021, 13, 3024-3039.	2.7	16
14	Systematic analysis of novel psychoactive substances. I. Development of a compound database and HRMS spectral library. <i>Forensic Chemistry</i> , 2018, 9, 12-20.	2.8	15
15	Fundamental study of the ultrasonic induced degradation of the popular antihistamine, diphenhydramine (DPH). <i>Water Research</i> , 2018, 144, 265-273.	11.3	15
16	Electrochemical determination of novel psychoactive substances by differential pulse voltammetry using a microcell for boron-doped diamond electrode and screen-printed electrodes based on carbon and platinum. <i>Journal of Electroanalytical Chemistry</i> , 2021, 882, 114994.	3.8	14
17	Screening of seized drugs utilizing portable Raman spectroscopy and direct analysis in real time-mass spectrometry (DART-MS). <i>Forensic Chemistry</i> , 2021, 25, 100352.	2.8	14
18	Separation and Identification of Isomeric and Structurally Related Synthetic Cannabinoids Using 2D Liquid Chromatography and High Resolution Mass Spectrometry. <i>Journal of Analytical Toxicology</i> , 2019, 43, 170-178.	2.8	13

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19	Evaluation of organic and inorganic gunshot residues in various populations using LC-MS/MS. <i>Forensic Chemistry</i> , 2022, 27, 100389.	2.8	13
20	Assessing the utility of LIBS in the reconstruction of firearm related incidents. <i>Forensic Chemistry</i> , 2020, 19, 100251.	2.8	12
21	Extraction of dried oral fluid spots (DOFS) for the identification of drugs of abuse using liquid chromatography tandem mass spectrometry (LC-MS/MS). <i>Forensic Chemistry</i> , 2020, 19, 100254.	2.8	11
22	Synthesis of Organotin Polyamine Ethers Containing Thiamine (Vitamin B1) and Preliminary Ability to Inhibit Select Cancer Cell Lines. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 1414-1424.	3.7	10
23	Development, validation and evaluation of a quantitative method for the analysis of twenty-four new psychoactive substances in oral fluid by LC-MS/MS. <i>Forensic Chemistry</i> , 2020, 19, 100231.	2.8	9
24	Evaluation of fentanyl toxicity and metabolism using a zebrafish model. <i>Journal of Applied Toxicology</i> , 2022, 42, 706-714.	2.8	9
25	Implementing machine learning for the identification and classification of compound and mixtures in portable Raman instruments. <i>Chemical Physics Letters</i> , 2022, 787, 139283.	2.6	9
26	Comparison of portable and benchtop electrochemical instruments for detection of inorganic and organic gunshot residues in authentic shooter samples. <i>Journal of Forensic Sciences</i> , 2022, 67, 1450-1460.	1.6	9
27	Forensic Identification of Fentanyl and its Analogs by Electrochemical-Surface Enhanced Raman Spectroscopy (EC-SERS) for the Screening of Seized Drugs of Abuse. <i>Frontiers in Analytical Science</i> , 2022, 2, .	2.4	8
28	The use of conductive polymers as a substrate for paper spray ionization mass spectrometry. <i>Analytical Methods</i> , 2019, 11, 3388-3400.	2.7	7
29	Classification of printing inks in pharmaceutical packages by Laser-Induced Breakdown Spectroscopy and Attenuated Total Reflectance-Fourier Transform Infrared Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 172, 105963.	2.9	7
30	A systematic review of quantitative analysis of cannabinoids in oral fluid. <i>Journal of Forensic Sciences</i> , 2021, 66, 2104-2112.	1.6	7
31	Rapid quantitative analysis of methylphenidate and ritalinic acid in oral fluid by liquid chromatography triple quadrupole mass spectrometry (LC-QqQ-MS). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1092, 313-319.	2.3	6
32	Quantitation of Fentanyl and Metabolites from Liver Tissue Using a Validated QuEChERS Extraction and LC-MS-MS Analysis. <i>Journal of Analytical Toxicology</i> , 2021, 44, 957-967.	2.8	6
33	Rapid Determination of the "Legal Highs" 4-MMC and 4-MEC by Spectroelectrochemistry: Simultaneous Cyclic Voltammetry and In Situ Surface-Enhanced Raman Spectroscopy. <i>Sensors</i> , 2022, 22, 295.	3.8	5
34	Prevalence and probabilistic assessment of organic and inorganic gunshot residue and background profiles using LIBS, electrochemistry, and SEM-EDS. <i>Forensic Chemistry</i> , 2022, 29, 100429.	2.8	5
35	Quantitation and Validation of 34 Fentanyl Analogs from Liver Tissue Using a QuEChERS Extraction and LC-MS-MS Analysis. <i>Journal of Analytical Toxicology</i> , 2021, .	2.8	4
36	Study of $\Delta^9$ -tetrahydrocannabinol (THC) and cannabidiol (CBD) extraction FROM dried oral fluid spots (DOFS) and LC-MS/MS detection. <i>Journal of Cannabis Research</i> , 2021, 3, 30.	3.2	4

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37	Evaluation of the Presence of 1,3-Dimethylamylamine in Pelargonium Leaves and Essential Oils by Mass Spectrometric and Chromatographic Methods. <i>Chromatographia</i> , 2019, 82, 875-883.	1.3	3
38	Elemental composition of airborne particulate matter from coastal South Florida area influenced by African dust events. <i>Aeolian Research</i> , 2022, 54, 100774.	2.7	3
39	The metabolism of valeryl fentanyl using human liver microsomes and zebrafish larvae. <i>Drug Testing and Analysis</i> , 2022, 14, 1116-1129.	2.6	2