Carmen GarcÃ-a Ruiz

List of Publications by Year
in descending order

175 papers	4,337 citations	117453 34 h-index	174990 52 g-index
177 all docs	177 docs citations	177 times ranked	3881 citing authors

#	Article	IF	Citations
1	Infrared and Raman spectroscopy techniques applied to identification of explosives. TrAC - Trends in Analytical Chemistry, 2014, 54, 36-44.	5.8	181
2	Raman spectroscopy for forensic analysis of inks in questioned documents. Forensic Science International, 2013, 232, 206-212.	1.3	133
3	Analysis of questioned documents: A review. Analytica Chimica Acta, 2015, 853, 143-166.	2.6	110
4	Portable Capillary Electrophoresis Instrument with Automated Injector and Contactless Conductivity Detection. Analytical Chemistry, 2013, 85, 2333-2339.	3.2	100
5	Traceability Markers to the Botanical Origin in Olive Oils. Journal of Agricultural and Food Chemistry, 2010, 58, 28-38.	2.4	97
6	Occurrence and identification of microplastics along a beach in the Biosphere Reserve of Lanzarote. Marine Pollution Bulletin, 2019, 143, 220-227.	2.3	87
7	Analytical techniques in the study of highly-nitrated nitrocellulose. TrAC - Trends in Analytical Chemistry, 2011, 30, 1740-1755.	5.8	81
8	Emerging spectrometric techniques for the forensic analysis of body fluids. TrAC - Trends in Analytical Chemistry, 2015, 64, 53-63.	5.8	70
9	Ammunition Identification by Means of the Organic Analysis of Gunshot Residues Using Raman Spectroscopy. Analytical Chemistry, 2012, 84, 3581-3585.	3.2	69
10	Analysis of macroscopic gunshot residues by Raman spectroscopy to assess the weapon memory effect. Forensic Science International, 2013, 231, 1-5.	1.3	69
11	Enantiomeric separation of organophosphorus pesticides by capillary electrophoresis. Analytica Chimica Acta, 2005, 543, 77-83.	2.6	68
12	Chemical and biochemical sensing applications of microstructured optical fiberâ€based systems. Laser and Photonics Reviews, 2015, 9, 604-627.	4.4	68
13	Recent advances in the analysis of antibiotics by capillary electrophoresis. Electrophoresis, 2006, 27, 266-282.	1.3	67
14	Detection of residues from explosive manipulation by near infrared hyperspectral imaging: A promising forensic tool. Forensic Science International, 2014, 242, 228-235.	1.3	58
15	Analytical tools for the analysis of fire debris. A review: 2008â€“2015. Analytica Chimica Acta, 2016, 928, 1-19.	2.6	58
16	The discrimination of 72 nitrate, chlorate and perchlorate salts using IR and Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 189, 535-542.	2.0	57
17	Sensitive chiral analysis by CE: An update. Electrophoresis, 2008, 29, 237-251.	1.3	54
18	Applications of laser-ablation-inductively-coupled plasma-mass spectrometry in chemical analysis of forensic evidence. TrAC - Trends in Analytical Chemistry, 2013, 42, 1-34.	5.8	53

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19	Rapid determination of scopolamine in evidence of recreational and predatory use. Science and Justice - Journal of the Forensic Science Society, 2013, 53, 409-414.	1.3	50
20	Detection and identification of explosives by surface enhanced Raman scattering. Applied Spectroscopy Reviews, 2016, 51, 227-262.	3.4	49
21	Determination of l- and d-carnitine in dietary food supplements using capillary electrophoresisâ€“tandem mass spectrometry. Food Chemistry, 2010, 120, 921-928.	4.2	48
22	Sensitive chiral analysis by capillary electrophoresis. Electrophoresis, 2006, 27, 195-212.	1.3	47
23	Forensic discrimination of blue ballpoint pens on documents by laser ablation inductively coupled plasma mass spectrometry and multivariate analysis. Forensic Science International, 2013, 228, 1-7.	1.3	46
24	Development of a CEâ€MS² method for the enantiomeric separation of <scp>L</scp>/<scp>D</scp>â€carnitine: Application to the analysis of infant formulas. Electrophoresis, 2009, 30, 337-348.	1.3	44
25	Analytical techniques for the analysis of consumer fireworks. TrAC - Trends in Analytical Chemistry, 2014, 56, 27-36.	5.8	42
26	Development of an inâ€capillary derivatization method by CE for the determination of chiral amino acids in dietary supplements and wines. Electrophoresis, 2009, 30, 696-704.	1.3	39
27	New protocol for the isolation of nitrocellulose from gunpowders: Utility in their identification. Talanta, 2010, 81, 1742-1749.	2.9	39
28	Concurrent determination of anions and cations in consumer fireworks with a portable dual-capillary electrophoresis system. Journal of Chromatography A, 2014, 1372, 245-252.	1.8	39
29	Laser-induced fluorescence detection at 266 nm in capillary electrophoresis. Journal of Chromatography A, 2001, 907, 291-299.	1.8	38
30	Enantioselective separation of azole compounds by EKC. Reversal of migration order of enantiomers with CD concentration. Electrophoresis, 2007, 28, 2667-2674.	1.3	38
31	An exploratory study of the potential of LIBS for visualizing gunshot residue patterns. Forensic Science International, 2017, 273, 124-131.	1.3	38
32	Sensitive determination of d-carnitine as enantiomeric impurity of levo-carnitine in pharmaceutical formulations by capillary electrophoresisâ€“tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2010, 53, 1217-1223.	1.4	37
33	Simultaneous separation of cations and anions in capillary electrophoresis. TrAC - Trends in Analytical Chemistry, 2014, 62, 162-172.	5.8	37
34	Study of consumer fireworks post-blast residues by ATR-FTIR. Talanta, 2016, 149, 257-265.	2.9	37
35	Rapid enantiomeric separation of polychlorinated biphenyls by electrokinetic chromatography using mixtures of neutral and charged cyclodextrin derivatives. Journal of Chromatography A, 2001, 910, 157-164.	1.8	35
36	Raman imaging for determining the sequence of blue pen ink crossings. Forensic Science International, 2015, 249, 92-100.	1.3	35

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37	Differentiation of Body Fluid Stains on Fabrics Using External Reflection Fourier Transform Infrared Spectroscopy (FT-IR) and Chemometrics. Applied Spectroscopy, 2016, 70, 654-665.	1.2	35
38	Spectroscopic techniques for the forensic analysis of textile fibers. Applied Spectroscopy Reviews, 2016, 51, 278-301.	3.4	34
39	Comparative analysis of smokeless gunpowders by Fourier transform infrared and Raman spectroscopy. Analytica Chimica Acta, 2012, 717, 92-99.	2.6	33
40	Progressing the analysis of Improvised Explosive Devices: Comparative study for trace detection of explosive residues in handprints by Raman spectroscopy and liquid chromatography. Talanta, 2016, 161, 219-227.	2.9	33
41	Enantiomeric separation of chiral phenoxy acid herbicides by electrokinetic chromatography. Application to the determination of analyte-selector apparent binding constants for enantiomers. Electrophoresis, 2001, 22, 3216-3225.	1.3	32
42	Determination of nitrogen mustard degradation products in water samples using a portable capillary electrophoresis instrument. Electrophoresis, 2013, 34, 2078-2084.	1.3	32
43	Near infrared spectral imaging for the analysis of dynamite residues on human handprints. Talanta, 2014, 130, 315-321.	2.9	32
44	Development of a CEâ€ESIâ€ITMS method for the enantiomeric determination of the nonâ€protein amino acid ornithine. Electrophoresis, 2009, 30, 1724-1733.	1.3	31
45	Noninvasive Detection of Concealed Explosives: Depth Profiling through Opaque Plastics by Time-Resolved Raman Spectroscopy. Analytical Chemistry, 2011, 83, 8517-8523.	3.2	31
46	Recent advances in capillary electrophoresis instrumentation for the analysis of explosives. TrAC - Trends in Analytical Chemistry, 2016, 75, 75-85.	5.8	31
47	Gold nanorods as SERS substrate for the ultratrace detection of cocaine in non-pretreated oral fluid samples. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 557, 43-50.	2.3	31
48	Separation of etodolac enantiomers by capillary electrophoresis. Validation and application of the chiral method to the analysis of commercial formulations. Electrophoresis, 2005, 26, 1106-1113.	1.3	30
49	Surface-enhanced Raman spectroscopy for the analysis of smokeless gunpowders and macroscopic gunshot residues. Analytical and Bioanalytical Chemistry, 2016, 408, 4965-4973.	1.9	30
50	Chemometric approaches for document dating: Handling paper variability. Analytica Chimica Acta, 2018, 1031, 28-37.	2.6	30
51	Spectroscopic Trends for the Determination of Illicit Drugs in Oral Fluid. Applied Spectroscopy Reviews, 2015, 50, 775-796.	3.4	29
52	Analysis of human bodily fluids on superabsorbent pads by ATR-FTIR. Talanta, 2017, 162, 634-640.	2.9	29
53	Recent approaches for enhancing sensitivity in enantioseparations by CE. Electrophoresis, 2010, 31, 28-43.	1.3	28
54	Comparison of charged cyclodextrin derivatives for the chiral separation of atropisomeric polychlorinated biphenyls by capillary electrophoresis. Electrophoresis, 2003, 24, 2657-2664.	1.3	27

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55	Confocal Raman spectroscopy to trace lipstick with their smudges on different surfaces. Talanta, 2014, 123, 135-139.	2.9	27
56	Determination of the nitrogen content of nitrocellulose from smokeless gunpowders and collodions by alkaline hydrolysis and ion chromatography. Analytica Chimica Acta, 2011, 685, 196-203.	2.6	26
57	Determination of nitrocellulose by capillary electrophoresis with laser-induced fluorescence detection. Analytica Chimica Acta, 2012, 745, 149-155.	2.6	26
58	Studying the variability in the Raman signature of writing pen inks. Forensic Science International, 2014, 245, 38-44.	1.3	26
59	Recent non-chemical approaches to estimate the shooting distance. Forensic Science International, 2014, 239, 79-85.	1.3	26
60	Effect of Meso vs Macro Size of Hierarchical Porous Silica on the Adsorption and Activity of Immobilized Î²-Galactosidase. Langmuir, 2017, 33, 3333-3340.	1.6	26
61	Chemical classification of new psychoactive substances (NPS). Microchemical Journal, 2021, 163, 105877.	2.3	26
62	Identification and quantitation of cis-ketoconazole impurity by capillary zone electrophoresisâ€“mass spectrometry. Journal of Chromatography A, 2006, 1114, 170-177.	1.8	25
63	Characterization and differentiation of diverse transgenic and nontransgenic soybean varieties from CE protein profiles. Electrophoresis, 2007, 28, 2314-2323.	1.3	25
64	CE methods for the determination of nonâ€protein amino acids in foods. Electrophoresis, 2007, 28, 4031-4045.	1.3	24
65	Enantiomeric separation of ornithine in complex mixtures of amino acids by EKC with off-line derivatization with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 875, 254-259.	1.2	24
66	Fast derivatization of the nonâ€protein amino acid ornithine with FITC using an ultrasound probe prior to enantiomeric determination in food supplements by EKC. Electrophoresis, 2009, 30, 1037-1045.	1.3	24
67	Ultraviolet resonance Raman spectroscopy for the detection of cocaine in oral fluid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 338-340.	2.0	24
68	Fast enantiomeric separation of uniconazole and diniconazole by electrokinetic chromatography using an anionic cyclodextrin: Application to the determination of analyte-selector apparent binding constants for enantiomers. Electrophoresis, 2000, 21, 3240-3248.	1.3	23
69	Rapid determination of salbutamol in pharmaceutical preparations by chiral capillary electrophoresis. Electrophoresis, 2003, 24, 2680-2686.	1.3	23
70	Determination of Trigonelline in Seeds and Vegetable Oils by Capillary Electrophoresis as a Novel Marker for the Detection of Adulterations in Olive Oils. Journal of Agricultural and Food Chemistry, 2010, 58, 7489-7496.	2.4	23
71	Statistical approach for ATR-FTIR screening of semen in sexual evidence. Talanta, 2017, 174, 853-857.	2.9	23
72	Introducing ATR-FTIR Spectroscopy through Analysis of Acetaminophen Drugs: Practical Lessons for Interdisciplinary and Progressive Learning for Undergraduate Students. Journal of Chemical Education, 2021, 98, 2675-2686.	1.1	23

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73	Diphenylamine and derivatives as predictors of gunpowder age by means of HPLC and statistical models. Talanta, 2013, 103, 214-220.	2.9	22
74	Dynamite Analysis by Raman Spectroscopy As a Unique Analytical Tool. Analytical Chemistry, 2013, 85, 2595-2600.	3.2	22
75	Fractionation of chlorinated and brominated persistent organic pollutants in several food samples by pyrenyl-silica liquid chromatography prior to GCâ€“MS determination. Analytica Chimica Acta, 2006, 565, 208-213.	2.6	21
76	Molecular Characterization of Phospholipids by High-Performance Liquid Chromatography Combined with an Evaporative Light Scattering Detector, High-Performance Liquid Chromatography Combined with Mass Spectrometry, and Gas Chromatography Combined with a Flame Ionization Detector in Different Oat Varieties. Journal of Agricultural and Food Chemistry, 2012, 60, 10963-10969.	2.4	21
77	Proteins in Olive Fruit and Oil. Critical Reviews in Food Science and Nutrition, 2014, 54, 611-624.	5.4	21
78	Fast Analysis of Complete Macroscopic Gunshot Residues on Substrates Using Raman Imaging. Applied Spectroscopy, 2015, 69, 889-893.	1.2	21
79	Analysis of bovine whey proteins in soybean dairy-like products by capillary electrophoresis. Journal of Chromatography A, 1999, 859, 77-86.	1.8	20
80	Rapid separation of tetracycline derivatives and their main degradation products by capillary zone electrophoresis. Electrophoresis, 2001, 22, 2775-2781.	1.3	20
81	Enantioselective room temperature phosphorescence detection of non-phosphorescent analytes based on interaction with Î²-cyclodextrin/1-bromonaphthalene complexes. Talanta, 2005, 66, 634-640.	2.9	20
82	Confocal Raman spectrocopy for the analysis of nail polish evidence. Talanta, 2015, 138, 155-162.	2.9	20
83	Direct and indirect approaches based on paper analysis by Py-GC/MS for estimating the age of documents. Journal of Analytical and Applied Pyrolysis, 2018, 131, 9-16.	2.6	20
84	Detection and quantitation of additions of soybean proteins in cured-meat products by perfusion reversed-phase high-performance liquid chromatography. Journal of Separation Science, 2005, 28, 987-995.	1.3	19
85	Enantioselective detection of chiral phosphorescent analytes in cyclodextrin complexes. Talanta, 2005, 66, 641-645.	2.9	19
86	A study to visualize and determine the sequencing of intersecting ink lines. Forensic Science International, 2014, 234, 39-44.	1.3	19
87	Microâ€injector for capillary electrophoresis. Electrophoresis, 2015, 36, 1941-1944.	1.3	19
88	Separation and online preconcentration by multistep stacking with large-volume injection of anabolic steroids by capillary electrokinetic chromatography using charged cyclodextrins and UV-absorption detection. Journal of Separation Science, 2005, 28, 2200-2209.	1.3	18
89	Separation of proteins from olive oil by CE: An approximation to the differentiation of monovarietal olive oils. Electrophoresis, 2010, 31, 2218-2225.	1.3	18
90	Human ultra-weak photon emission as non-invasive spectroscopic tool for diagnosis of internal states â€“ A review. Journal of Photochemistry and Photobiology B: Biology, 2021, 216, 112141.	1.7	18

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91	Fast enantiomeric separation of basis drugs by electrokinetic chromatography. Application to the quantitation of terbutaline in a pharmaceutical preparation. Electrophoresis, 2001, 22, 3191-3197.	1.3	17
92	Discrimination of non-explosive and explosive samples through nitrocellulose fingerprints obtained by capillary electrophoresis. Journal of Chromatography A, 2013, 1302, 197-204.	1.8	17
93	Revealing the location of semen, vaginal fluid and urine in stained evidence through near infrared chemical imaging. Talanta, 2017, 166, 292-299.	2.9	17
94	Rapid characterisation of (glyphosate tolerant) transgenic and non-transgenic soybeans using chromatographic protein profiles. Food Chemistry, 2009, 113, 1212-1217.	4.2	16
95	Separation of olive proteins by capillary gel electrophoresis. Talanta, 2012, 97, 420-424.	2.9	16
96	Anions in preâ€•and postâ€blast consumer fireworks by capillary electrophoresis. Electrophoresis, 2014, 35, 3272-3280.	1.3	16
97	Determination of Nanogram Microparticles from Explosives after Real Open-Air Explosions by Confocal Raman Microscopy. Analytical Chemistry, 2016, 88, 6726-6733.	3.2	16
98	Investigation of the use of luminescent markers as gunshot residue indicators. Forensic Science International, 2017, 280, 95-102.	1.3	16
99	A validated GCâ€“MS method for ketamine and norketamine in hair and its use in authentic cases. Forensic Science International, 2019, 301, 447-454.	1.3	16
100	Forensic examination of textile fibres using Raman imaging and multivariate analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 268, 120695.	2.0	16
101	Monitoring the stereoselectivity of biodegradation of chiral polychlorinated biphenyls using electrokinetic chromatography. Journal of Separation Science, 2002, 25, 17-22.	1.3	15
102	Characterization of carboxylate-terminated carbosilane dendrimers and their evaluation as nanoadditives in capillary electrophoresis for vegetable protein profiling. Journal of Chromatography A, 2012, 1234, 16-21.	1.8	15
103	Peanut Allergens: An Overview. Critical Reviews in Food Science and Nutrition, 2013, 53, 722-737.	5.4	15
104	Analysis of different materials subjected to open-air explosions in search of explosive traces by Raman microscopy. Forensic Science International, 2017, 275, 57-64.	1.3	15
105	Quenched Phosphorescence as a Detection Method in Capillary Electrophoretic Chiral Separations. Monitoring the Stereoselective Biodegradation of Camphorquinone by Yeast. Analytical Chemistry, 2004, 76, 399-403.	3.2	14
106	Qualitative determination of inorganic anions in incendiary device residues by capillary electrophoresis. Analytical Methods, 2012, 4, 2680.	1.3	14
107	Vibrational Spectroscopy as a Promising Tool to Study Enzyme-Carrier Interactions: A Review. Applied Spectroscopy Reviews, 2015, 50, 797-821.	3.4	14
108	Analysis of street cocaine samples in nasal fluid by Raman spectroscopy. Talanta, 2016, 154, 367-373.	2.9	14

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109	Interpreting the near infrared region of explosives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 204, 81-87.	2.0	14
110	Characterization and quantitation of soybean proteins in commercial soybean products by capillary electrophoresis. Electrophoresis, 1999, 20, 2003-2012.	1.3	13
111	Anionic markers for the forensic identification of Chemical Ignition Molotov Cocktail composition. Science and Justice - Journal of the Forensic Science Society, 2013, 53, 49-54.	1.3	12
112	Raman identification of drug of abuse particles collected with colored and transparent tapes. Science and Justice - Journal of the Forensic Science Society, 2014, 54, 164-169.	1.3	12
113	Forensic discrimination of inkjet-printed lines by Raman spectroscopy and surface-enhanced Raman spectroscopy. Australian Journal of Forensic Sciences, 2015, 47, 411-420.	0.7	12
114	Increasing awareness of the severity of female victimization by opportunistic drug-facilitated sexual assault: A new viewpoint. Forensic Science International, 2020, 315, 110460.	1.3	12
115	Multi-spectral imaging for the estimation of shooting distances. Forensic Science International, 2018, 282, 80-85.	1.3	12
116	Enantiomeric separation of a group of chiral dihydropyridines by electrokinetic chromatography. Electrophoresis, 2000, 21, 1565-1573.	1.3	11
117	Reversed-phase high-performance liquid chromatography applied to the determination of soybean proteins in commercial heat-processed meat products. Analytica Chimica Acta, 2006, 559, 215-220.	2.6	11
118	Raman spectral signatures for the differentiation of benzodiazepine drugs. Analytical Methods, 2014, 6, 9536-9546.	1.3	11
119	Photonic crystal fibres as efficient separation component in capillary electrophoresis. Sensors and Actuators B: Chemical, 2014, 191, 264-269.	4.0	11
120	Study of acidified ignitable liquid residues in fire debris by solidâ€phase microextraction with gas chromatography and mass spectrometry. Journal of Separation Science, 2015, 38, 3218-3227.	1.3	11
121	Short wave infrared chemical imaging as future tool for analysing gunshot residues patterns in targets. Talanta, 2017, 167, 227-235.	2.9	11
122	Measuring the Human Ultra-Weak Photon Emission Distribution Using an Electron-Multiplying, Charge-Coupled Device as a Sensor. Sensors, 2018, 18, 1152.	2.1	11
123	Classification of Various Marijuana Varieties by Raman Microscopy and Chemometrics. Toxics, 2022, 10, 115.	1.6	11
124	Retention modeling and resolution optimization for a group of N-phenylpyrazole derivatives in micellar electrokinetic chromatography using empirical and physicochemical models. Electrophoresis, 2003, 24, 325-335.	1.3	10
125	Development of a capillary electrophoresis method for the determination of soybean proteins in soybeanâ€“rice gluten-free dietary products. Electrophoresis, 2006, 27, 452-460.	1.3	10
126	Selective Monitoring of Oxyanion Mixtures by a Flow System with Raman Detection. Sensors, 2018, 18, 2196.	2.1	10

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127	A practical beginnerâ€™s guide to Raman microscopy. Applied Spectroscopy Reviews, 0, , 1-24.	3.4	10
128	Separation of a group ofN-phenylpyrazole derivatives by micellar electrokinetic chromatography: Application to the determination of solute-micelle association constants and estimation of the hydrophobicity. Electrophoresis, 2000, 21, 2424-2431.	1.3	9
129	Separation of Olive Proteins Combining a Simple Extraction Method and a Selective Capillary Electrophoresis (CE) Approach: Application to Raw and Table Olive Samples. Journal of Agricultural and Food Chemistry, 2010, 58, 11808-11813.	2.4	9
130	Carbon nanotube-Cu hybrids enhanced catalytic activity in aqueous media. Carbon, 2014, 78, 10-18.	5.4	9
131	A microdestructive capillary electrophoresis method for the analysis of blue-pen-ink strokes on office paper. Journal of Chromatography A, 2015, 1400, 140-148.	1.8	9
132	Study of Spectral Modifications in Acidified Ignitable Liquids by Attenuated Total Reflection Fourier Transform Infrared Spectroscopy. Applied Spectroscopy, 2016, 70, 520-530.	1.2	9
133	Human Ultraweak Photon Emission: Key Analytical Aspects, Results and Future Trends â€“ A Review. Critical Reviews in Analytical Chemistry, 2019, 49, 368-381.	1.8	9
134	Prevalence study of drugs and new psychoactive substances in hair of ketamine consumers using a methanolic direct extraction prior to high-resolution mass spectrometry. Forensic Science International, 2021, 329, 111080.	1.3	9
135	Modification of Resolution in Capillary Electrophoresis for Protein Profiling in Identification of Genetic Modification in Foods. Croatica Chemica Acta, 2011, 84, 375-382.	0.1	8
136	Study of chemical modifications in acidified ignitable liquids analysed by GCâ€“MS. Science and Justice - Journal of the Forensic Science Society, 2015, 55, 446-455.	1.3	8
137	Analysis of pre-ignited improvised incendiary devices using portable Raman. Talanta, 2015, 144, 612-618.	2.9	8
138	Simple multispectral imaging approach for determining the transfer of explosive residues in consecutive fingerprints. Talanta, 2018, 184, 437-445.	2.9	8
139	Potential of High-Resolution Mass Spectrometry for the Detection of Drugs and Metabolites in Hair: Methoxetamine in a Real Forensic Case. Journal of Analytical Toxicology, 2022, 46, e1-e10.	1.7	8
140	Chemical Classification of Explosives. Critical Reviews in Analytical Chemistry, 2020, 51, 1-18.	1.8	8
141	A Morphological and Morphometric Dental Analysis as a Forensic Tool to Identify the Iberian Wolf (Canis Lupus Signatus). Animals, 2020, 10, 975.	1.0	8
142	Enantioselective separation of the sunscreen agent 3-(4-methylbenzylidene)-camphor by electrokinetic chromatography: Quantitative analysis in cosmetic formulations. Electrophoresis, 2005, 26, 3952-3959.	1.3	7
143	Study of losses of volatile compounds from dynamites. Investigation of cross-contamination between dynamites stored in polyethylene bags. Forensic Science International, 2011, 211, 27-33.	1.3	7
144	Validation of an analytical method for the refractive index measurement of glass fragments. Application to a hit-and-run incident. Analytical Methods, 2013, 5, 1178.	1.3	7

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145	Monitoring of the stability of cocaine and some metabolites in water and oral fluid by a newly developed CE method. Electrophoresis, 2017, 38, 1217-1223.	1.3	7
146	Detection of microscopic traces of explosive residues on textile fabrics by Raman spectroscopy. Journal of Raman Spectroscopy, 2018, 49, 1668-1677.	1.2	7
147	Study of the adhesion of explosive residues to the finger and transfer to clothing and luggage. Science and Justice - Journal of the Forensic Science Society, 2018, 58, 415-424.	1.3	7
148	Probing the confinement of Î²-galactosidase into meso-macro porous silica by Raman spectroscopy. Microporous and Mesoporous Materials, 2019, 278, 149-155.	2.2	7
149	Analysis of tooth mark patterns on bone remains caused by wolves (Canis lupus) and domestic dogs (Canis lupus familiaris) for taxonomic identification: A scoping review focused on their value as a forensic tool. Applied Animal Behaviour Science, 2021, 240, 105356.	0.8	7
150	Electrophoretic fingerprinting of benzodiazepine tablets in spike drinks. Electrophoresis, 2014, 35, 3250-3257.	1.3	6
151	Fundamentals on new capillaries inspired by photonic crystal fibers as optofluidic separation systems in CE. Electrophoresis, 2015, 36, 433-440.	1.3	6
152	Comparison of different GC-MS configurations for the determination of prevalent drugs and related metabolites. Analytical Methods, 2017, 9, 2897-2908.	1.3	6
153	Acid alteration of several ignitable liquids of potential use in arsons. Science and Justice - Journal of the Forensic Science Society, 2018, 58, 7-16.	1.3	6
154	Shooting distance estimation based on gunshot residues analyzed by XRD and multivariate analysis. Chemometrics and Intelligent Laboratory Systems, 2019, 193, 103831.	1.8	6
155	Near Promising Future of near Infrared Hyperspectral Imaging in Forensic Sciences. NIR News, 2014, 25, 6-9.	1.6	5
156	Analysis and differentiation of paper samples by capillary electrophoresis and multivariate analysis. Electrophoresis, 2014, 35, 3264-3271.	1.3	5
157	A microstructured capillary electrophoresis method for nitrocellulose detection in dynamite. Microchemical Journal, 2015, 123, 218-223.	2.3	5
158	Multi-target methodology for the screening of blood specimens in drug-facilitated sexual assault cases. Microchemical Journal, 2019, 150, 104204.	2.3	5
159	An ecological working framework as a new model for understanding and preventing the victimization of women by drug-facilitated sexual assault. Forensic Science International, 2020, 315, 110438.	1.3	5
160	A new CE with contactless conductivity detection method for the determination of complex cationic compositions: Application to the analysis of pen inks. Electrophoresis, 2016, 37, 2896-2902.	1.3	4
161	Ultraviolet-Visible and High-Resolution Mass Spectrometry for the Identification of Cyclopropyl-Fentanyl in the First Fatal Case in Spain. Journal of Analytical Toxicology, 2020, 44, 927-935.	1.7	4
162	Identification of 2C-B in Hair by UHPLC-HRMS/MS. A Real Forensic Case. Toxics, 2021, 9, 170.	1.6	4

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163	Maximizing semen extraction from sanitary pads by chemical and shredding treatments. Forensic Science International: Genetics, 2019, 42, 198-202.	1.6	3
164	Comparison between computed tomography and silicone-casting methods to determine gunshot cavities in ballistic soap. International Journal of Legal Medicine, 2021, 135, 829-836.	1.2	3
165	An approximation to the identification of contexts, experiences, and profiles of victims of drug-facilitated sexual assaults. Journal of Clinical Forensic and Legal Medicine, 2022, 90, 102376.	0.5	3
166	Chiral analysis by capillary electrophoresis. Comprehensive Analytical Chemistry, 2005, , 617-701.	0.7	2
167	Determination of ethylene glycol dinitrate in dynamites using HPLC: Application to the plastic explosive Gomaâ€2 ECO. Journal of Separation Science, 2011, 34, 3353-3358.	1.3	2
168	Study of the suitability of DUO plastic bags for the storage of dynamites. Forensic Science International, 2013, 232, e33-e37.	1.3	2
169	Forensic intelligence-led prevention of drug-facilitated sexual assaults.. Forensic Science International, 2022, 337, 111373.	1.3	2
170	Why is methenamine detected in Goma-2 dynamites originally methenamine free? An interpretation of relevant forensic results. Forensic Science International, 2012, 216, 183-188.	1.3	1
171	In response to the letter â€œScopolamine: Useful medicine or dangerous drug?â€• Science and Justice - Journal of the Forensic Science Society, 2014, 54, 323.	1.3	1
172	Successive injection in microstructured-capillary electrophoresis for rapid pairwise comparisons. Application to questioned documents. Microchemical Journal, 2018, 139, 416-423.	2.3	1
173	Increment of spontaneous human biophoton emission caused by anger emotional states. Proof of concept. Microchemical Journal, 2021, 169, 106558.	2.3	1
174	Optimized photonic crystal fibers supporting efficient capillary electrophoresis. Proceedings of SPIE, 2013, , .	0.8	0
175	Peer actions for a service learning project to prevent drug-facilitated sexual assaults. , 0, , .		0