

# Carmen GarcÃ-a Ruiz

## List of Publications by Year in descending order

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175  
papers

4,337  
citations

117625

34  
h-index

175258

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. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 54, 36-44.	11.4	181
2	Raman spectroscopy for forensic analysis of inks in questioned documents. <i>Forensic Science International</i> , 2013, 232, 206-212.	2.2	133
3	Analysis of questioned documents: A review. <i>Analytica Chimica Acta</i> , 2015, 853, 143-166.	5.4	110
4	Portable Capillary Electrophoresis Instrument with Automated Injector and Contactless Conductivity Detection. <i>Analytical Chemistry</i> , 2013, 85, 2333-2339.	6.5	100
5	Traceability Markers to the Botanical Origin in Olive Oils. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 28-38.	5.2	97
6	Occurrence and identification of microplastics along a beach in the Biosphere Reserve of Lanzarote. <i>Marine Pollution Bulletin</i> , 2019, 143, 220-227.	5.0	87
7	Analytical techniques in the study of highly-nitrated nitrocellulose. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1740-1755.	11.4	81
8	Emerging spectrometric techniques for the forensic analysis of body fluids. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 64, 53-63.	11.4	70
9	Ammunition Identification by Means of the Organic Analysis of Gunshot Residues Using Raman Spectroscopy. <i>Analytical Chemistry</i> , 2012, 84, 3581-3585.	6.5	69
10	Analysis of macroscopic gunshot residues by Raman spectroscopy to assess the weapon memory effect. <i>Forensic Science International</i> , 2013, 231, 1-5.	2.2	69
11	Enantiomeric separation of organophosphorus pesticides by capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2005, 543, 77-83.	5.4	68
12	Chemical and biochemical sensing applications of microstructured optical fiber-based systems. <i>Laser and Photonics Reviews</i> , 2015, 9, 604-627.	8.7	68
13	Recent advances in the analysis of antibiotics by capillary electrophoresis. <i>Electrophoresis</i> , 2006, 27, 266-282.	2.4	67
14	Detection of residues from explosive manipulation by near infrared hyperspectral imaging: A promising forensic tool. <i>Forensic Science International</i> , 2014, 242, 228-235.	2.2	58
15	Analytical tools for the analysis of fire debris. A review: 2008-2015. <i>Analytica Chimica Acta</i> , 2016, 928, 1-19.	5.4	58
16	The discrimination of 72 nitrate, chlorate and perchlorate salts using IR and Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 535-542.	3.9	57
17	Sensitive chiral analysis by CE: An update. <i>Electrophoresis</i> , 2008, 29, 237-251.	2.4	54
18	Applications of laser-ablation-inductively-coupled plasma-mass spectrometry in chemical analysis of forensic evidence. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 42, 1-34.	11.4	53

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19	Rapid determination of scopolamine in evidence of recreational and predatory use. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2013, 53, 409-414.	2.1	50
20	Detection and identification of explosives by surface enhanced Raman scattering. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 227-262.	6.7	49
21	Determination of l- and d-carnitine in dietary food supplements using capillary electrophoresis-tandem mass spectrometry. <i>Food Chemistry</i> , 2010, 120, 921-928.	8.2	48
22	Sensitive chiral analysis by capillary electrophoresis. <i>Electrophoresis</i> , 2006, 27, 195-212.	2.4	47
23	Forensic discrimination of blue ballpoint pens on documents by laser ablation inductively coupled plasma mass spectrometry and multivariate analysis. <i>Forensic Science International</i> , 2013, 228, 1-7.	2.2	46
24	Development of a CE-MS <sup>2</sup> method for the enantiomeric separation of L-/D-carnitine: Application to the analysis of infant formulas. <i>Electrophoresis</i> , 2009, 30, 337-348.	2.4	44
25	Analytical techniques for the analysis of consumer fireworks. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 56, 27-36.	11.4	42
26	Development of an in-capillary derivatization method by CE for the determination of chiral amino acids in dietary supplements and wines. <i>Electrophoresis</i> , 2009, 30, 696-704.	2.4	39
27	New protocol for the isolation of nitrocellulose from gunpowders: Utility in their identification. <i>Talanta</i> , 2010, 81, 1742-1749.	5.5	39
28	Concurrent determination of anions and cations in consumer fireworks with a portable dual-capillary electrophoresis system. <i>Journal of Chromatography A</i> , 2014, 1372, 245-252.	3.7	39
29	Laser-induced fluorescence detection at 266 nm in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2001, 907, 291-299.	3.7	38
30	Enantioselective separation ofazole compounds by EKC. Reversal of migration order of enantiomers with CD concentration. <i>Electrophoresis</i> , 2007, 28, 2667-2674.	2.4	38
31	An exploratory study of the potential of LIBS for visualizing gunshot residue patterns. <i>Forensic Science International</i> , 2017, 273, 124-131.	2.2	38
32	Sensitive determination of d-carnitine as enantiomeric impurity of levo-carnitine in pharmaceutical formulations by capillary electrophoresis-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 1217-1223.	2.8	37
33	Simultaneous separation of cations and anions in capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 62, 162-172.	11.4	37
34	Study of consumer fireworks post-blast residues by ATR-FTIR. <i>Talanta</i> , 2016, 149, 257-265.	5.5	37
35	Rapid enantiomeric separation of polychlorinated biphenyls by electrokinetic chromatography using mixtures of neutral and charged cyclodextrin derivatives. <i>Journal of Chromatography A</i> , 2001, 910, 157-164.	3.7	35
36	Raman imaging for determining the sequence of blue pen ink crossings. <i>Forensic Science International</i> , 2015, 249, 92-100.	2.2	35

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37	Differentiation of Body Fluid Stains on Fabrics Using External Reflection Fourier Transform Infrared Spectroscopy (FT-IR) and Chemometrics. <i>Applied Spectroscopy</i> , 2016, 70, 654-665.	2.2	35
38	Spectroscopic techniques for the forensic analysis of textile fibers. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 278-301.	6.7	34
39	Comparative analysis of smokeless gunpowders by Fourier transform infrared and Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2012, 717, 92-99.	5.4	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. <i>Talanta</i> , 2016, 161, 219-227.	5.5	33
41	Enantiomeric separation of chiral phenoxy acid herbicides by electrokinetic chromatography. Application to the determination of analyte-selector apparent binding constants for enantiomers. <i>Electrophoresis</i> , 2001, 22, 3216-3225.	2.4	32
42	Determination of nitrogen mustard degradation products in water samples using a portable capillary electrophoresis instrument. <i>Electrophoresis</i> , 2013, 34, 2078-2084.	2.4	32
43	Near infrared spectral imaging for the analysis of dynamite residues on human handprints. <i>Talanta</i> , 2014, 130, 315-321.	5.5	32
44	Development of a CE-ESI-TMS method for the enantiomeric determination of the non-protein amino acid ornithine. <i>Electrophoresis</i> , 2009, 30, 1724-1733.	2.4	31
45	Noninvasive Detection of Concealed Explosives: Depth Profiling through Opaque Plastics by Time-Resolved Raman Spectroscopy. <i>Analytical Chemistry</i> , 2011, 83, 8517-8523.	6.5	31
46	Recent advances in capillary electrophoresis instrumentation for the analysis of explosives. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 75, 75-85.	11.4	31
47	Gold nanorods as SERS substrate for the ultratrace detection of cocaine in non-pretreated oral fluid samples. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 557, 43-50.	4.7	31
48	Separation of etodolac enantiomers by capillary electrophoresis. Validation and application of the chiral method to the analysis of commercial formulations. <i>Electrophoresis</i> , 2005, 26, 1106-1113.	2.4	30
49	Surface-enhanced Raman spectroscopy for the analysis of smokeless gunpowders and macroscopic gunshot residues. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4965-4973.	3.7	30
50	Chemometric approaches for document dating: Handling paper variability. <i>Analytica Chimica Acta</i> , 2018, 1031, 28-37.	5.4	30
51	Spectroscopic Trends for the Determination of Illicit Drugs in Oral Fluid. <i>Applied Spectroscopy Reviews</i> , 2015, 50, 775-796.	6.7	29
52	Analysis of human bodily fluids on superabsorbent pads by ATR-FTIR. <i>Talanta</i> , 2017, 162, 634-640.	5.5	29
53	Recent approaches for enhancing sensitivity in enantioseparations by CE. <i>Electrophoresis</i> , 2010, 31, 28-43.	2.4	28
54	Comparison of charged cyclodextrin derivatives for the chiral separation of atropisomeric polychlorinated biphenyls by capillary electrophoresis. <i>Electrophoresis</i> , 2003, 24, 2657-2664.	2.4	27

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55	Confocal Raman spectroscopy to trace lipstick with their smudges on different surfaces. <i>Talanta</i> , 2014, 123, 135-139.	5.5	27
56	Determination of the nitrogen content of nitrocellulose from smokeless gunpowders and collodions by alkaline hydrolysis and ion chromatography. <i>Analytica Chimica Acta</i> , 2011, 685, 196-203.	5.4	26
57	Determination of nitrocellulose by capillary electrophoresis with laser-induced fluorescence detection. <i>Analytica Chimica Acta</i> , 2012, 745, 149-155.	5.4	26
58	Studying the variability in the Raman signature of writing pen inks. <i>Forensic Science International</i> , 2014, 245, 38-44.	2.2	26
59	Recent non-chemical approaches to estimate the shooting distance. <i>Forensic Science International</i> , 2014, 239, 79-85.	2.2	26
60	Effect of Meso vs Macro Size of Hierarchical Porous Silica on the Adsorption and Activity of Immobilized $\beta$ -Galactosidase. <i>Langmuir</i> , 2017, 33, 3333-3340.	3.5	26
61	Chemical classification of new psychoactive substances (NPS). <i>Microchemical Journal</i> , 2021, 163, 105877.	4.5	26
62	Identification and quantitation of cis-ketoconazole impurity by capillary zone electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1114, 170-177.	3.7	25
63	Characterization and differentiation of diverse transgenic and nontransgenic soybean varieties from CE protein profiles. <i>Electrophoresis</i> , 2007, 28, 2314-2323.	2.4	25
64	CE methods for the determination of non-protein amino acids in foods. <i>Electrophoresis</i> , 2007, 28, 4031-4045.	2.4	24
65	Enantiomeric separation of ornithine in complex mixtures of amino acids by EKC with off-line derivatization with 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 875, 254-259.	2.3	24
66	Fast derivatization of the non-protein amino acid ornithine with FITC using an ultrasound probe prior to enantiomeric determination in food supplements by EKC. <i>Electrophoresis</i> , 2009, 30, 1037-1045.	2.4	24
67	Ultraviolet resonance Raman spectroscopy for the detection of cocaine in oral fluid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 338-340.	3.9	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. <i>Electrophoresis</i> , 2000, 21, 3240-3248.	2.4	23
69	Rapid determination of salbutamol in pharmaceutical preparations by chiral capillary electrophoresis. <i>Electrophoresis</i> , 2003, 24, 2680-2686.	2.4	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. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 7489-7496.	5.2	23
71	Statistical approach for ATR-FTIR screening of semen in sexual evidence. <i>Talanta</i> , 2017, 174, 853-857.	5.5	23
72	Introducing ATR-FTIR Spectroscopy through Analysis of Acetaminophen Drugs: Practical Lessons for Interdisciplinary and Progressive Learning for Undergraduate Students. <i>Journal of Chemical Education</i> , 2021, 98, 2675-2686.	2.3	23

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73	Diphenylamine and derivatives as predictors of gunpowder age by means of HPLC and statistical models. <i>Talanta</i> , 2013, 103, 214-220.	5.5	22
74	Dynamite Analysis by Raman Spectroscopy As a Unique Analytical Tool. <i>Analytical Chemistry</i> , 2013, 85, 2595-2600.	6.5	22
75	Fractionation of chlorinated and brominated persistent organic pollutants in several food samples by pyrenyl-silica liquid chromatography prior to GC-MS determination. <i>Analytica Chimica Acta</i> , 2006, 565, 208-213.	5.4	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. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 10963-10969.	5.2	21
77	Proteins in Olive Fruit and Oil. <i>Critical Reviews in Food Science and Nutrition</i> , 2014, 54, 611-624.	10.3	21
78	Fast Analysis of Complete Macroscopic Gunshot Residues on Substrates Using Raman Imaging. <i>Applied Spectroscopy</i> , 2015, 69, 889-893.	2.2	21
79	Analysis of bovine whey proteins in soybean dairy-like products by capillary electrophoresis. <i>Journal of Chromatography A</i> , 1999, 859, 77-86.	3.7	20
80	Rapid separation of tetracycline derivatives and their main degradation products by capillary zone electrophoresis. <i>Electrophoresis</i> , 2001, 22, 2775-2781.	2.4	20
81	Enantioselective room temperature phosphorescence detection of non-phosphorescent analytes based on interaction with $\beta$ -cyclodextrin/1-bromonaphthalene complexes. <i>Talanta</i> , 2005, 66, 634-640.	5.5	20
82	Confocal Raman spectroscopy for the analysis of nail polish evidence. <i>Talanta</i> , 2015, 138, 155-162.	5.5	20
83	Direct and indirect approaches based on paper analysis by Py-GC/MS for estimating the age of documents. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 131, 9-16.	5.5	20
84	Detection and quantitation of additions of soybean proteins in cured-meat products by perfusion reversed-phase high-performance liquid chromatography. <i>Journal of Separation Science</i> , 2005, 28, 987-995.	2.5	19
85	Enantioselective detection of chiral phosphorescent analytes in cyclodextrin complexes. <i>Talanta</i> , 2005, 66, 641-645.	5.5	19
86	A study to visualize and determine the sequencing of intersecting ink lines. <i>Forensic Science International</i> , 2014, 234, 39-44.	2.2	19
87	Microinjector for capillary electrophoresis. <i>Electrophoresis</i> , 2015, 36, 1941-1944.	2.4	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. <i>Journal of Separation Science</i> , 2005, 28, 2200-2209.	2.5	18
89	Separation of proteins from olive oil by CE: An approximation to the differentiation of monovarietal olive oils. <i>Electrophoresis</i> , 2010, 31, 2218-2225.	2.4	18
90	Human ultra-weak photon emission as non-invasive spectroscopic tool for diagnosis of internal states – A review. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 216, 112141.	3.8	18

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91	Fast enantiomeric separation of basis drugs by electrokinetic chromatography. Application to the quantitation of terbitaline in a pharmaceutical preparation. <i>Electrophoresis</i> , 2001, 22, 3191-3197.	2.4	17
92	Discrimination of non-explosive and explosive samples through nitrocellulose fingerprints obtained by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2013, 1302, 197-204.	3.7	17
93	Revealing the location of semen, vaginal fluid and urine in stained evidence through near infrared chemical imaging. <i>Talanta</i> , 2017, 166, 292-299.	5.5	17
94	Rapid characterisation of (glyphosate tolerant) transgenic and non-transgenic soybeans using chromatographic protein profiles. <i>Food Chemistry</i> , 2009, 113, 1212-1217.	8.2	16
95	Separation of olive proteins by capillary gel electrophoresis. <i>Talanta</i> , 2012, 97, 420-424.	5.5	16
96	Anions in pre- and post-blast consumer fireworks by capillary electrophoresis. <i>Electrophoresis</i> , 2014, 35, 3272-3280.	2.4	16
97	Determination of Nanogram Microparticles from Explosives after Real Open-Air Explosions by Confocal Raman Microscopy. <i>Analytical Chemistry</i> , 2016, 88, 6726-6733.	6.5	16
98	Investigation of the use of luminescent markers as gunshot residue indicators. <i>Forensic Science International</i> , 2017, 280, 95-102.	2.2	16
99	A validated GC-MS method for ketamine and norketamine in hair and its use in authentic cases. <i>Forensic Science International</i> , 2019, 301, 447-454.	2.2	16
100	Forensic examination of textile fibres using Raman imaging and multivariate analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 268, 120695.	3.9	16
101	Monitoring the stereoselectivity of biodegradation of chiral polychlorinated biphenyls using electrokinetic chromatography. <i>Journal of Separation Science</i> , 2002, 25, 17-22.	2.5	15
102	Characterization of carboxylate-terminated carbosilane dendrimers and their evaluation as nanoadditives in capillary electrophoresis for vegetable protein profiling. <i>Journal of Chromatography A</i> , 2012, 1234, 16-21.	3.7	15
103	Peanut Allergens: An Overview. <i>Critical Reviews in Food Science and Nutrition</i> , 2013, 53, 722-737.	10.3	15
104	Analysis of different materials subjected to open-air explosions in search of explosive traces by Raman microscopy. <i>Forensic Science International</i> , 2017, 275, 57-64.	2.2	15
105	Quenched Phosphorescence as a Detection Method in Capillary Electrophoretic Chiral Separations. Monitoring the Stereoselective Biodegradation of Camphorquinone by Yeast. <i>Analytical Chemistry</i> , 2004, 76, 399-403.	6.5	14
106	Qualitative determination of inorganic anions in incendiary device residues by capillary electrophoresis. <i>Analytical Methods</i> , 2012, 4, 2680.	2.7	14
107	Vibrational Spectroscopy as a Promising Tool to Study Enzyme-Carrier Interactions: A Review. <i>Applied Spectroscopy Reviews</i> , 2015, 50, 797-821.	6.7	14
108	Analysis of street cocaine samples in nasal fluid by Raman spectroscopy. <i>Talanta</i> , 2016, 154, 367-373.	5.5	14

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109	Interpreting the near infrared region of explosives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 81-87.	3.9	14
110	Characterization and quantitation of soybean proteins in commercial soybean products by capillary electrophoresis. <i>Electrophoresis</i> , 1999, 20, 2003-2012.	2.4	13
111	Anionic markers for the forensic identification of Chemical Ignition Molotov Cocktail composition. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2013, 53, 49-54.	2.1	12
112	Raman identification of drug of abuse particles collected with colored and transparent tapes. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2014, 54, 164-169.	2.1	12
113	Forensic discrimination of inkjet-printed lines by Raman spectroscopy and surface-enhanced Raman spectroscopy. <i>Australian Journal of Forensic Sciences</i> , 2015, 47, 411-420.	1.2	12
114	Increasing awareness of the severity of female victimization by opportunistic drug-facilitated sexual assault: A new viewpoint. <i>Forensic Science International</i> , 2020, 315, 110460.	2.2	12
115	Multi-spectral imaging for the estimation of shooting distances. <i>Forensic Science International</i> , 2018, 282, 80-85.	2.2	12
116	Enantiomeric separation of a group of chiral dihydropyridines by electrokinetic chromatography. <i>Electrophoresis</i> , 2000, 21, 1565-1573.	2.4	11
117	Reversed-phase high-performance liquid chromatography applied to the determination of soybean proteins in commercial heat-processed meat products. <i>Analytica Chimica Acta</i> , 2006, 559, 215-220.	5.4	11
118	Raman spectral signatures for the differentiation of benzodiazepine drugs. <i>Analytical Methods</i> , 2014, 6, 9536-9546.	2.7	11
119	Photonic crystal fibres as efficient separation component in capillary electrophoresis. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 264-269.	7.8	11
120	Study of acidified ignitable liquid residues in fire debris by solid-phase microextraction with gas chromatography and mass spectrometry. <i>Journal of Separation Science</i> , 2015, 38, 3218-3227.	2.5	11
121	Short wave infrared chemical imaging as future tool for analysing gunshot residues patterns in targets. <i>Talanta</i> , 2017, 167, 227-235.	5.5	11
122	Measuring the Human Ultra-Weak Photon Emission Distribution Using an Electron-Multiplying, Charge-Coupled Device as a Sensor. <i>Sensors</i> , 2018, 18, 1152.	3.8	11
123	Classification of Various Marijuana Varieties by Raman Microscopy and Chemometrics. <i>Toxics</i> , 2022, 10, 115.	3.7	11
124	Retention modeling and resolution optimization for a group of N-phenylpyrazole derivatives in micellar electrokinetic chromatography using empirical and physicochemical models. <i>Electrophoresis</i> , 2003, 24, 325-335.	2.4	10
125	Development of a capillary electrophoresis method for the determination of soybean proteins in soybean-rice gluten-free dietary products. <i>Electrophoresis</i> , 2006, 27, 452-460.	2.4	10
126	Selective Monitoring of Oxyanion Mixtures by a Flow System with Raman Detection. <i>Sensors</i> , 2018, 18, 2196.	3.8	10



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127	A practical beginner's guide to Raman microscopy. <i>Applied Spectroscopy Reviews</i> , 0, , 1-24.	6.7	10
128	Separation of a group of N-phenylpyrazole derivatives by micellar electrokinetic chromatography: Application to the determination of solute-micelle association constants and estimation of the hydrophobicity. <i>Electrophoresis</i> , 2000, 21, 2424-2431.	2.4	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. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 11808-11813.	5.2	9
130	Carbon nanotube-Cu hybrids enhanced catalytic activity in aqueous media. <i>Carbon</i> , 2014, 78, 10-18.	10.3	9
131	A microdestructive capillary electrophoresis method for the analysis of blue-pen-ink strokes on office paper. <i>Journal of Chromatography A</i> , 2015, 1400, 140-148.	3.7	9
132	Study of Spectral Modifications in Acidified Ignitable Liquids by Attenuated Total Reflection Fourier Transform Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2016, 70, 520-530.	2.2	9
133	Human Ultraweak Photon Emission: Key Analytical Aspects, Results and Future Trends – A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2019, 49, 368-381.	3.5	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. <i>Forensic Science International</i> , 2021, 329, 111080.	2.2	9
135	Modification of Resolution in Capillary Electrophoresis for Protein Profiling in Identification of Genetic Modification in Foods. <i>Croatica Chemica Acta</i> , 2011, 84, 375-382.	0.4	8
136	Study of chemical modifications in acidified ignitable liquids analysed by GC-MS. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2015, 55, 446-455.	2.1	8
137	Analysis of pre-ignited improvised incendiary devices using portable Raman. <i>Talanta</i> , 2015, 144, 612-618.	5.5	8
138	Simple multispectral imaging approach for determining the transfer of explosive residues in consecutive fingerprints. <i>Talanta</i> , 2018, 184, 437-445.	5.5	8
139	Potential of High-Resolution Mass Spectrometry for the Detection of Drugs and Metabolites in Hair: Methoxetamine in a Real Forensic Case. <i>Journal of Analytical Toxicology</i> , 2022, 46, e1-e10.	2.8	8
140	Chemical Classification of Explosives. <i>Critical Reviews in Analytical Chemistry</i> , 2020, 51, 1-18.	3.5	8
141	A Morphological and Morphometric Dental Analysis as a Forensic Tool to Identify the Iberian Wolf ( <i>Canis Lupus Signatus</i> ). <i>Animals</i> , 2020, 10, 975.	2.3	8
142	Enantioselective separation of the sunscreen agent 3-(4-methylbenzylidene)-camphor by electrokinetic chromatography: Quantitative analysis in cosmetic formulations. <i>Electrophoresis</i> , 2005, 26, 3952-3959.	2.4	7
143	Study of losses of volatile compounds from dynamites. Investigation of cross-contamination between dynamites stored in polyethylene bags. <i>Forensic Science International</i> , 2011, 211, 27-33.	2.2	7
144	Validation of an analytical method for the refractive index measurement of glass fragments. Application to a hit-and-run incident. <i>Analytical Methods</i> , 2013, 5, 1178.	2.7	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. <i>Electrophoresis</i> , 2017, 38, 1217-1223.	2.4	7
146	Detection of microscopic traces of explosive residues on textile fabrics by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1668-1677.	2.5	7
147	Study of the adhesion of explosive residues to the finger and transfer to clothing and luggage. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2018, 58, 415-424.	2.1	7
148	Probing the confinement of Î²-galactosidase into meso-macro porous silica by Raman spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 149-155.	4.4	7
149	Analysis of tooth mark patterns on bone remains caused by wolves ( <i>Canis lupus</i> ) and domestic dogs ( <i>Canis lupus familiaris</i> ) for taxonomic identification: A scoping review focused on their value as a forensic tool. <i>Applied Animal Behaviour Science</i> , 2021, 240, 105356.	1.9	7
150	Electrophoretic fingerprinting of benzodiazepine tablets in spike drinks. <i>Electrophoresis</i> , 2014, 35, 3250-3257.	2.4	6
151	Fundamentals on new capillaries inspired by photonic crystal fibers as optofluidic separation systems in CE. <i>Electrophoresis</i> , 2015, 36, 433-440.	2.4	6
152	Comparison of different GC-MS configurations for the determination of prevalent drugs and related metabolites. <i>Analytical Methods</i> , 2017, 9, 2897-2908.	2.7	6
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