

Carmen Garca Ruiz

List of Publications by Citations

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174
papers

3,461
citations

32
h-index

45
g-index

177
ext. papers

3,871
ext. citations

4.7
avg, IF

5.8
L-index

#	Paper	IF	Citations
174	Infrared and Raman spectroscopy techniques applied to identification of explosives. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 54, 36-44	14.6	148
173	Raman spectroscopy for forensic analysis of inks in questioned documents. <i>Forensic Science International</i> , 2013 , 232, 206-12	2.6	104
172	Traceability markers to the botanical origin in olive oils. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 28-38	5.7	91
171	Portable capillary electrophoresis instrument with automated injector and contactless conductivity detection. <i>Analytical Chemistry</i> , 2013 , 85, 2333-9	7.8	85
170	Analysis of questioned documents: a review. <i>Analytica Chimica Acta</i> , 2015 , 853, 143-166	6.6	80
169	Analysis of macroscopic gunshot residues by Raman spectroscopy to assess the weapon memory effect. <i>Forensic Science International</i> , 2013 , 231, 1-5	2.6	65
168	Analytical techniques in the study of highly-nitrated nitrocellulose. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1740-1755	14.6	63
167	Recent advances in the analysis of antibiotics by capillary electrophoresis. <i>Electrophoresis</i> , 2006 , 27, 266-388	3.8	63
166	Enantiomeric separation of organophosphorus pesticides by capillary electrophoresis: Application to the determination of malathion in water samples after preconcentration by off-line solid-phase extraction. <i>Analytica Chimica Acta</i> , 2005 , 543, 77-83	6.6	60
165	Emerging spectrometric techniques for the forensic analysis of body fluids. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 64, 53-63	14.6	58
164	Ammunition identification by means of the organic analysis of gunshot residues using Raman spectroscopy. <i>Analytical Chemistry</i> , 2012 , 84, 3581-5	7.8	56
163	Occurrence and identification of microplastics along a beach in the Biosphere Reserve of Lanzarote. <i>Marine Pollution Bulletin</i> , 2019 , 143, 220-227	6.7	53
162	Sensitive chiral analysis by CE: an update. <i>Electrophoresis</i> , 2008 , 29, 237-51	3.6	51
161	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	14.6	46
160	Sensitive chiral analysis by capillary electrophoresis. <i>Electrophoresis</i> , 2006 , 27, 195-212	3.6	46
159	Detection of residues from explosive manipulation by near infrared hyperspectral imaging: a promising forensic tool. <i>Forensic Science International</i> , 2014 , 242, 228-235	2.6	45
158	Determination of l- and d-carnitine in dietary food supplements using capillary electrophoresis tandem mass spectrometry. <i>Food Chemistry</i> , 2010 , 120, 921-928	8.5	45

157	Analytical tools for the analysis of fire debris. A review: 2008-2015. <i>Analytica Chimica Acta</i> , 2016 , 928, 1-19	6.6	44
156	Development of a CE-MS(2) method for the enantiomeric separation of L/D-carnitine: application to the analysis of infant formulas. <i>Electrophoresis</i> , 2009 , 30, 337-48	3.6	43
155	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	4.4	40
154	Chemical and biochemical sensing applications of microstructured optical fiber-based systems. <i>Laser and Photonics Reviews</i> , 2015 , 9, 604-627	8.3	40
153	Detection and identification of explosives by surface enhanced Raman scattering. <i>Applied Spectroscopy Reviews</i> , 2016 , 51, 227-262	4.5	39
152	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	3.6	38
151	Rapid determination of scopolamine in evidence of recreational and predatory use. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2013 , 53, 409-14	2	37
150	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	2.6	37
149	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, 1217-23	3.5	36
148	Laser-induced fluorescence detection at 266 nm in capillary electrophoresis. Polycyclic aromatic hydrocarbon metabolites in biota. <i>Journal of Chromatography A</i> , 2001 , 907, 291-9	4.5	35
147	New protocol for the isolation of nitrocellulose from gunpowders: utility in their identification. <i>Talanta</i> , 2010 , 81, 1742-9	6.2	34
146	Simultaneous separation of cations and anions in capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 62, 162-172	14.6	33
145	Enantioselective separation ofazole compounds by EKC. Reversal of migration order of enantiomers with CD concentration. <i>Electrophoresis</i> , 2007 , 28, 2667-74	3.6	33
144	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, 157-64	4.5	33
143	Analytical techniques for the analysis of consumer fireworks. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 56, 27-36	14.6	32
142	Concurrent determination of anions and cations in consumer fireworks with a portable dual-capillary electrophoresis system. <i>Journal of Chromatography A</i> , 2014 , 1372C, 245-252	4.5	32
141	Study of consumer fireworks post-blast residues by ATR-FTIR. <i>Talanta</i> , 2016 , 149, 257-265	6.2	31
140	Raman imaging for determining the sequence of blue pen ink crossings. <i>Forensic Science International</i> , 2015 , 249, 92-100	2.6	30

139	Determination of nitrogen mustard degradation products in water samples using a portable capillary electrophoresis instrument. <i>Electrophoresis</i> , 2013 , 34, 2078-84	3.6	29
138	Development of a CE-ESI-ITMS method for the enantiomeric determination of the non-protein amino acid ornithine. <i>Electrophoresis</i> , 2009 , 30, 1724-33	3.6	29
137	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, 3216-25	3.6	29
136	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	6.2	29
135	Near infrared spectral imaging for the analysis of dynamite residues on human handprints. <i>Talanta</i> , 2014 , 130, 315-21	6.2	27
134	Recent approaches for enhancing sensitivity in enantioseparations by CE. <i>Electrophoresis</i> , 2010 , 31, 28-43	3.6	27
133	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, 1106-13	3.6	27
132	Differentiation of Body Fluid Stains on Fabrics Using External Reflection Fourier Transform Infrared Spectroscopy (FT-IR) and Chemometrics. <i>Applied Spectroscopy</i> , 2016 , 70, 654-65	3.1	26
131	Comparative analysis of smokeless gunpowders by Fourier transform infrared and Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2012 , 717, 92-9	6.6	26
130	Determination of nitrocellulose by capillary electrophoresis with laser-induced fluorescence detection. <i>Analytica Chimica Acta</i> , 2012 , 745, 149-55	6.6	26
129	Comparison of charged cyclodextrin derivatives for the chiral separation of atropisomeric polychlorinated biphenyls by capillary electrophoresis. <i>Electrophoresis</i> , 2003 , 24, 2657-64	3.6	26
128	Noninvasive detection of concealed explosives: depth profiling through opaque plastics by time-resolved Raman spectroscopy. <i>Analytical Chemistry</i> , 2011 , 83, 8517-23	7.8	25
127	Characterization and differentiation of diverse transgenic and nontransgenic soybean varieties from CE protein profiles. <i>Electrophoresis</i> , 2007 , 28, 2314-23	3.6	24
126	An exploratory study of the potential of LIBS for visualizing gunshot residue patterns. <i>Forensic Science International</i> , 2017 , 273, 124-131	2.6	23
125	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, 1037-45	3.6	23
124	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, 254-9	3.2	23
123	Rapid determination of salbutamol in pharmaceutical preparations by chiral capillary electrophoresis. <i>Electrophoresis</i> , 2003 , 24, 2680-6	3.6	23
122	Recent advances in capillary electrophoresis instrumentation for the analysis of explosives. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 75, 75-85	14.6	22

121	Chemometric approaches for document dating: Handling paper variability. <i>Analytica Chimica Acta</i> , 2018 , 1031, 28-37	6.6	22
120	CE methods for the determination of non-protein amino acids in foods. <i>Electrophoresis</i> , 2007 , 28, 4031-456	5.6	22
119	Surface-enhanced Raman spectroscopy for the analysis of smokeless gunpowders and macroscopic gunshot residues. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 4965-73	4.4	22
118	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	4.4	21
117	Spectroscopic Trends for the Determination of Illicit Drugs in Oral Fluid. <i>Applied Spectroscopy Reviews</i> , 2015 , 50, 775-796	4.5	20
116	Recent non-chemical approaches to estimate the shooting distance. <i>Forensic Science International</i> , 2014 , 239, 79-85	2.6	20
115	Confocal Raman spectroscopy to trace lipstick with their smudges on different surfaces. <i>Talanta</i> , 2014 , 123, 135-9	6.2	20
114	Dynamite analysis by Raman spectroscopy as a unique analytical tool. <i>Analytical Chemistry</i> , 2013 , 85, 2595-600	7.8	20
113	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	6.6	20
112	Identification and quantitation of cis-ketoconazole impurity by capillary zone electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2006 , 1114, 170-7	4.5	20
111	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, 3240-8	3.6	20
110	Spectroscopic techniques for the forensic analysis of textile fibers. <i>Applied Spectroscopy Reviews</i> , 2016 , 51, 278-301	4.5	19
109	Studying the variability in the Raman signature of writing pen inks. <i>Forensic Science International</i> , 2014 , 245, 38-44	2.6	19
108	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, 7489-96	5.7	19
107	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	6.6	19
106	Effect of Meso vs Macro Size of Hierarchical Porous Silica on the Adsorption and Activity of Immobilized β -Galactosidase. <i>Langmuir</i> , 2017 , 33, 3333-3340	4	18
105	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	5.1	18
104	Separation of proteins from olive oil by CE: an approximation to the differentiation of monovarietal olive oils. <i>Electrophoresis</i> , 2010 , 31, 2218-25	3.6	18

103	Enantioselective room temperature phosphorescence detection of non-phosphorescent analytes based on interaction with beta-cyclodextrin/1-bromonaphthalene complexes. <i>Talanta</i> , 2005 , 66, 634-40	6.2	18
102	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, 2200-9	3.4	18
101	Rapid separation of tetracycline derivatives and their main degradation products by capillary zone electrophoresis. <i>Electrophoresis</i> , 2001 , 22, 2775-81	3.6	18
100	Analysis of bovine whey proteins in soybean dairy-like products by capillary electrophoresis. <i>Journal of Chromatography A</i> , 1999 , 859, 77-86	4.5	18
99	Micro-injector for capillary electrophoresis. <i>Electrophoresis</i> , 2015 , 36, 1941-4	3.6	17
98	Proteins in olive fruit and oil. <i>Critical Reviews in Food Science and Nutrition</i> , 2014 , 54, 611-24	11.5	17
97	Diphenylamine and derivatives as predictors of gunpowder age by means of HPLC and statistical models. <i>Talanta</i> , 2013 , 103, 214-20	6.2	17
96	Discrimination of non-explosive and explosive samples through nitrocellulose fingerprints obtained by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2013 , 1302, 197-204	4.5	17
95	Enantioselective detection of chiral phosphorescent analytes in cyclodextrin complexes. <i>Talanta</i> , 2005 , 66, 641-5	6.2	17
94	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, 987-993	3.4	17
93	A study to visualize and determine the sequencing of intersecting ink lines. <i>Forensic Science International</i> , 2014 , 234, 39-44	2.6	16
92	Analysis of human bodily fluids on superabsorbent pads by ATR-FTIR. <i>Talanta</i> , 2017 , 162, 634-640	6.2	16
91	Fast Analysis of Complete Macroscopic Gunshot Residues on Substrates Using Raman Imaging. <i>Applied Spectroscopy</i> , 2015 , 69, 889-93	3.1	16
90	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, 10963-9	5.7	16
89	Rapid characterisation of (glyphosate tolerant) transgenic and non-transgenic soybeans using chromatographic protein profiles. <i>Food Chemistry</i> , 2009 , 113, 1212-1217	8.5	16
88	Revealing the location of semen, vaginal fluid and urine in stained evidence through near infrared chemical imaging. <i>Talanta</i> , 2017 , 166, 292-299	6.2	15
87	Anions in pre- and post-blast consumer fireworks by capillary electrophoresis. <i>Electrophoresis</i> , 2014 , 35, 3272-80	3.6	15
86	Separation of olive proteins by capillary gel electrophoresis. <i>Talanta</i> , 2012 , 97, 420-4	6.2	15

85	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	4.5	15
84	Fast enantiomeric separation of basis drugs by electrokinetic chromatography. Application to the quantitation of terbutaline in a pharmaceutical preparation. <i>Electrophoresis</i> , 2001 , 22, 3191-7	3.6	15
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	6	14
82	Statistical approach for ATR-FTIR screening of semen in sexual evidence. <i>Talanta</i> , 2017 , 174, 853-857	6.2	14
81	Monitoring the stereoselectivity of biodegradation of chiral polychlorinated biphenyls using electrokinetic chromatography. <i>Journal of Separation Science</i> , 2002 , 25, 17-22	3.4	14
80	Investigation of the use of luminescent markers as gunshot residue indicators. <i>Forensic Science International</i> , 2017 , 280, 95-102	2.6	13
79	Characterization and quantitation of soybean proteins in commercial soybean products by capillary electrophoresis. <i>Electrophoresis</i> , 1999 , 20, 2003-12	3.6	13
78	Confocal Raman spectroscopy for the analysis of nail polish evidence. <i>Talanta</i> , 2015 , 138, 155-162	6.2	12
77	Determination of Nanogram Microparticles from Explosives after Real Open-Air Explosions by Confocal Raman Microscopy. <i>Analytical Chemistry</i> , 2016 , 88, 6726-33	7.8	12
76	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	12
75	Qualitative determination of inorganic anions in incendiary device residues by capillary electrophoresis. <i>Analytical Methods</i> , 2012 , 4, 2680	3.2	12
74	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	7.8	12
73	Analysis of street cocaine samples in nasal fluid by Raman spectroscopy. <i>Talanta</i> , 2016 , 154, 367-73	6.2	12
72	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	2.6	11
71	Vibrational Spectroscopy as a Promising Tool to Study Enzyme-Carrier Interactions: A Review. <i>Applied Spectroscopy Reviews</i> , 2015 , 50, 797-821	4.5	11
70	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	1.1	11
69	Photonic crystal fibres as efficient separation component in capillary electrophoresis. <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 264-269	8.5	11
68	Enantiomeric separation of a group of chiral dihydropyridines by electrokinetic chromatography. <i>Electrophoresis</i> , 2000 , 21, 1565-73	3.6	11

67	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, 164-9	2	10
66	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	6.6	10
65	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, 325-35	3.6	10
64	Peanut allergens: an overview. <i>Critical Reviews in Food Science and Nutrition</i> , 2013 , 53, 722-37	11.5	9
63	Development of a capillary electrophoresis method for the determination of soybean proteins in soybean-rice gluten-free dietary products. <i>Electrophoresis</i> , 2006 , 27, 452-60	3.6	9
62	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	2.6	8
61	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, 446-55	2	8
60	Interpreting the near infrared region of explosives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 204, 81-87	4.4	8
59	Raman spectral signatures for the differentiation of benzodiazepine drugs. <i>Analytical Methods</i> , 2014 , 6, 9536-9546	3.2	8
58	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, 11808-13	5.7	8
57	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	0.8	8
56	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, 2424-31	3.6	8
55	Multi-spectral imaging for the estimation of shooting distances. <i>Forensic Science International</i> , 2018 , 282, 80-85	2.6	8
54	Short wave infrared chemical imaging as future tool for analysing gunshot residues patterns in targets. <i>Talanta</i> , 2017 , 167, 227-235	6.2	7
53	Analysis of pre-ignited improvised incendiary devices using portable Raman. <i>Talanta</i> , 2015 , 144, 612-8	6.2	7
52	A microdestructive capillary electrophoresis method for the analysis of blue-pen-ink strokes on office paper. <i>Journal of Chromatography A</i> , 2015 , 1400, 140-8	4.5	7
51	Measuring the Human Ultra-Weak Photon Emission Distribution Using an Electron-Multiplying, Charge-Coupled Device as a Sensor. <i>Sensors</i> , 2018 , 18,	3.8	7
50	Carbon nanotube-Cu hybrids enhanced catalytic activity in aqueous media. <i>Carbon</i> , 2014 , 78, 10-18	10.4	7

49	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	3.4	7
48	Enantioselective separation of the sunscreen agent 3-(4-methylbenzylidene)-camphor by electrokinetic chromatography: Quantitative analysis in cosmetic formulations. <i>Electrophoresis</i> , 2005 , 26, 3952-9	3.6	7
47	Human Ultraweak Photon Emission: Key Analytical Aspects, Results and Future Trends - A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2019 , 49, 368-381	5.2	7
46	Chemical classification of new psychoactive substances (NPS). <i>Microchemical Journal</i> , 2021 , 163, 105877	4.8	7
45	Fundamentals on new capillaries inspired by photonic crystal fibers as optofluidic separation systems in CE. <i>Electrophoresis</i> , 2015 , 36, 433-40	3.6	6
44	Simple multispectral imaging approach for determining the transfer of explosive residues in consecutive fingerprints. <i>Talanta</i> , 2018 , 184, 437-445	6.2	6
43	Acid alteration of several ignitable liquids of potential use in arsons. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2018 , 58, 7-16	2	6
42	Study of Spectral Modifications in Acidified Ignitable Liquids by Attenuated Total Reflection Fourier Transform Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2016 , 70, 520-30	3.1	6
41	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	3.2	6
40	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	2.6	6
39	Probing the confinement of β -galactosidase into meso-macro porous silica by Raman spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2019 , 278, 149-155	5.3	6
38	A microstructured capillary electrophoresis method for nitrocellulose detection in dynamite. <i>Microchemical Journal</i> , 2015 , 123, 218-223	4.8	5
37	Detection of microscopic traces of explosive residues on textile fabrics by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1668-1677	2.3	5
36	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	6.7	5
35	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	3.6	4
34	Comparison of different GC-MS configurations for the determination of prevalent drugs and related metabolites. <i>Analytical Methods</i> , 2017 , 9, 2897-2908	3.2	4
33	A Morphological and Morphometric Dental Analysis as a Forensic Tool to Identify the Iberian Wolf (<i>Canis lupus</i>). <i>Animals</i> , 2020 , 10,	3.1	4
32	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	4

31	Near Promising Future of near Infrared Hyperspectral Imaging in Forensic Sciences. <i>NIR News</i> , 2014 , 25, 6-9	0.8	4
30	Analysis and differentiation of paper samples by capillary electrophoresis and multivariate analysis. <i>Electrophoresis</i> , 2014 , 35, 3264-71	3.6	4
29	Electrophoretic fingerprinting of benzodiazepine tablets in spike drinks. <i>Electrophoresis</i> , 2014 , 35, 3250-3.6	3.6	4
28	Selective Monitoring of Oxyanion Mixtures by a Flow System with Raman Detection. <i>Sensors</i> , 2018 , 18,	3.8	4
27	Shooting distance estimation based on gunshot residues analyzed by XRD and multivariate analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019 , 193, 103831	3.8	3
26	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> , 2020 ,	2.9	3
25	Chemical Classification of Explosives. <i>Critical Reviews in Analytical Chemistry</i> , 2021 , 51, 656-673	5.2	3
24	Maximizing semen extraction from sanitary pads by chemical and shredding treatments. <i>Forensic Science International: Genetics</i> , 2019 , 42, 198-202	4.3	3
23	A practical beginner's guide to Raman microscopy. <i>Applied Spectroscopy Reviews</i> , 2020 , 1-24	4.5	3
22	Ultraviolet-Visible and High-Resolution Mass Spectrometry for the Identification of Cyclopropyl-Fentanyl in the First Fatal Case in Spain. <i>Journal of Analytical Toxicology</i> , 2020 , 44, 927-935	2.9	3
21	A new CE with contactless conductivity detection method for the determination of complex cationic compositions: Application to the analysis of pen inks. <i>Electrophoresis</i> , 2016 , 37, 2896-2902	3.6	3
20	Determination of ethylene glycol dinitrate in dynamites using HPLC: application to the plastic explosive Goma-2 ECO. <i>Journal of Separation Science</i> , 2011 , 34, 3353-8	3.4	2
19	Chiral analysis by capillary electrophoresis. <i>Comprehensive Analytical Chemistry</i> , 2005 , 617-701	1.9	2
18	Forensic examination of textile fibres using Raman imaging and multivariate analysis.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 268, 120695	4.4	2
17	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	2.6	2
16	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	2.6	2
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