

# Carmen GarcÃ-a Ruiz

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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         |
| 2  | 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        |
| 3  | Classification of Various Marijuana Varieties by Raman Microscopy and Chemometrics. <i>Toxics</i> , 2022, 10, 115.   | 3.7 | 11        |
| 4  | An approximation to the identification of contexts, experiences, and profiles of victims of drug-facilitated sexual assaults. <i>Journal of Clinical Forensic and Legal Medicine</i> , 2022, 90, 102376.   | 1.0 | 3         |
| 5  | Forensic intelligence-led prevention of drug-facilitated sexual assaults.. <i>Forensic Science International</i> , 2022, 337, 111373.  | 2.2 | 2         |
| 6  | Comparison between computed tomography and silicone-casting methods to determine gunshot cavities in ballistic soap. <i>International Journal of Legal Medicine</i> , 2021, 135, 829-836.  | 2.2 | 3         |
| 7  | Chemical classification of new psychoactive substances (NPS). <i>Microchemical Journal</i> , 2021, 163, 105877.  | 4.5 | 26        |
| 8  | 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        |
| 9  | Identification of 2C-B in Hair by UHPLC-HRMS/MS. A Real Forensic Case. <i>Toxics</i> , 2021, 9, 170.   | 3.7 | 4         |
| 10 | 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        |
| 11 | 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         |
| 12 | Increment of spontaneous human biophoton emission caused by anger emotional states. Proof of concept. <i>Microchemical Journal</i> , 2021, 169, 106558.  | 4.5 | 1         |
| 13 | 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         |
| 14 | 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        |
| 15 | An ecological working framework as a new model for understanding and preventing the victimization of women by drug-facilitated sexual assault. <i>Forensic Science International</i> , 2020, 315, 110438.  | 2.2 | 5         |
| 16 | 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.  | 2.8 | 4         |
| 17 | Chemical Classification of Explosives. <i>Critical Reviews in Analytical Chemistry</i> , 2020, 51, 1-18.   | 3.5 | 8         |
| 18 | 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         |

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|----|---|-----|-----------|
| 19 | Maximizing semen extraction from sanitary pads by chemical and shredding treatments. <i>Forensic Science International: Genetics</i> , 2019, 42, 198-202.   | 3.1 | 3         |
| 20 | Multi-target methodology for the screening of blood specimens in drug-facilitated sexual assault cases. <i>Microchemical Journal</i> , 2019, 150, 104204.   | 4.5 | 5         |
| 21 | Shooting distance estimation based on gunshot residues analyzed by XRD and multivariate analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019, 193, 103831.                             | 3.5 | 6         |
| 22 | 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        |
| 23 | 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        |
| 24 | 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         |
| 25 | 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         |
| 26 | 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        |
| 27 | Simple multispectral imaging approach for determining the transfer of explosive residues in consecutive fingerprints. <i>Talanta</i> , 2018, 184, 437-445.  | 5.5 | 8         |
| 28 | Successive injection in microstructured-capillary electrophoresis for rapid pairwise comparisons. Application to questioned documents. <i>Microchemical Journal</i> , 2018, 139, 416-423.                 | 4.5 | 1         |
| 29 | 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        |
| 30 | 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.   | 2.1 | 6         |
| 31 | 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        |
| 32 | Selective Monitoring of Oxyanion Mixtures by a Flow System with Raman Detection. <i>Sensors</i> , 2018, 18, 2196.   | 3.8 | 10        |
| 33 | 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         |
| 34 | 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         |
| 35 | 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        |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | Interpreting the near infrared region of explosives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 81-87.   | 3.9 | 14        |
| 38 | Chemometric approaches for document dating: Handling paper variability. <i>Analytica Chimica Acta</i> , 2018, 1031, 28-37.  | 5.4 | 30        |
| 39 | Multi-spectral imaging for the estimation of shooting distances. <i>Forensic Science International</i> , 2018, 282, 80-85.  | 2.2 | 12        |
| 40 | 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         |
| 41 | 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        |
| 42 | 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        |
| 43 | 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        |
| 44 | 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         |
| 45 | 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        |
| 46 | 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        |
| 47 | Investigation of the use of luminescent markers as gunshot residue indicators. <i>Forensic Science International</i> , 2017, 280, 95-102.   | 2.2 | 16        |
| 48 | Statistical approach for ATR-FTIR screening of semen in sexual evidence. <i>Talanta</i> , 2017, 174, 853-857.   | 5.5 | 23        |
| 49 | Analysis of human bodily fluids on superabsorbent pads by ATR-FTIR. <i>Talanta</i> , 2017, 162, 634-640.  | 5.5 | 29        |
| 50 | Analytical tools for the analysis of fire debris. A review: 2008-2015. <i>Analytica Chimica Acta</i> , 2016, 928, 1-19.   | 5.4 | 58        |
| 51 | 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        |
| 52 | Analysis of street cocaine samples in nasal fluid by Raman spectroscopy. <i>Talanta</i> , 2016, 154, 367-373.   | 5.5 | 14        |
| 53 | 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.                    | 2.4 | 4         |
| 54 | 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        |

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|----|---|------|-----------|
| 55 | 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        |
| 56 | Detection and identification of explosives by surface enhanced Raman scattering. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 227-262.   | 6.7  | 49        |
| 57 | Study of consumer fireworks post-blast residues by ATR-FTIR. <i>Talanta</i> , 2016, 149, 257-265.   | 5.5  | 37        |
| 58 | 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        |
| 59 | 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         |
| 60 | Spectroscopic techniques for the forensic analysis of textile fibers. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 278-301.  | 6.7  | 34        |
| 61 | 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        |
| 62 | Chemical and biochemical sensing applications of microstructured optical fiber-based systems. <i>Laser and Photonics Reviews</i> , 2015, 9, 604-627.  | 8.7  | 68        |
| 63 | Fast Analysis of Complete Macroscopic Gunshot Residues on Substrates Using Raman Imaging. <i>Applied Spectroscopy</i> , 2015, 69, 889-893.  | 2.2  | 21        |
| 64 | 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        |
| 65 | Raman imaging for determining the sequence of blue pen ink crossings. <i>Forensic Science International</i> , 2015, 249, 92-100.  | 2.2  | 35        |
| 66 | Microinjector for capillary electrophoresis. <i>Electrophoresis</i> , 2015, 36, 1941-1944.  | 2.4  | 19        |
| 67 | Spectroscopic Trends for the Determination of Illicit Drugs in Oral Fluid. <i>Applied Spectroscopy Reviews</i> , 2015, 50, 775-796.   | 6.7  | 29        |
| 68 | 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         |
| 69 | Analysis of pre-ignited improvised incendiary devices using portable Raman. <i>Talanta</i> , 2015, 144, 612-618.  | 5.5  | 8         |
| 70 | A microstructured capillary electrophoresis method for nitrocellulose detection in dynamite. <i>Microchemical Journal</i> , 2015, 123, 218-223.   | 4.5  | 5         |
| 71 | Confocal Raman spectroscopy for the analysis of nail polish evidence. <i>Talanta</i> , 2015, 138, 155-162.  | 5.5  | 20        |
| 72 | 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         |

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|----|---|------|-----------|
| 73 | 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        |
| 74 | 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        |
| 75 | Emerging spectrometric techniques for the forensic analysis of body fluids. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 64, 53-63.   | 11.4 | 70        |
| 76 | Analysis of questioned documents: A review. <i>Analytica Chimica Acta</i> , 2015, 853, 143-166.   | 5.4  | 110       |
| 77 | 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         |
| 78 | 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        |
| 79 | Studying the variability in the Raman signature of writing pen inks. <i>Forensic Science International</i> , 2014, 245, 38-44.  | 2.2  | 26        |
| 80 | Electrophoretic fingerprinting of benzodiazepine tablets in spike drinks. <i>Electrophoresis</i> , 2014, 35, 3250-3257.   | 2.4  | 6         |
| 81 | 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        |
| 82 | 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        |
| 83 | Recent non-chemical approaches to estimate the shooting distance. <i>Forensic Science International</i> , 2014, 239, 79-85.   | 2.2  | 26        |
| 84 | A study to visualize and determine the sequencing of intersecting ink lines. <i>Forensic Science International</i> , 2014, 234, 39-44.  | 2.2  | 19        |
| 85 | Infrared and Raman spectroscopy techniques applied to identification of explosives. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 54, 36-44.                                     | 11.4 | 181       |
| 86 | Raman spectral signatures for the differentiation of benzodiazepine drugs. <i>Analytical Methods</i> , 2014, 6, 9536-9546.  | 2.7  | 11        |
| 87 | Simultaneous separation of cations and anions in capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 62, 162-172.   | 11.4 | 37        |
| 88 | Near infrared spectral imaging for the analysis of dynamite residues on human handprints. <i>Talanta</i> , 2014, 130, 315-321.  | 5.5  | 32        |
| 89 | Carbon nanotube-Cu hybrids enhanced catalytic activity in aqueous media. <i>Carbon</i> , 2014, 78, 10-18.   | 10.3 | 9         |
| 90 | Analytical techniques for the analysis of consumer fireworks. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 56, 27-36.   | 11.4 | 42        |

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|-----|--|------|-----------|
| 91  | Confocal Raman spectroscopy to trace lipstick with their smudges on different surfaces. <i>Talanta</i> , 2014, 123, 135-139.   | 5.5  | 27        |
| 92  | In response to the letter "Scopolamine: Useful medicine or dangerous drug?". <i>Science and Justice - Journal of the Forensic Science Society</i> , 2014, 54, 323.                         | 2.1  | 1         |
| 93  | Anions in pre- and post-blast consumer fireworks by capillary electrophoresis. <i>Electrophoresis</i> , 2014, 35, 3272-3280.   | 2.4  | 16        |
| 94  | Photonic crystal fibres as efficient separation component in capillary electrophoresis. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 264-269.                                     | 7.8  | 11        |
| 95  | Proteins in Olive Fruit and Oil. <i>Critical Reviews in Food Science and Nutrition</i> , 2014, 54, 611-624.  | 10.3 | 21        |
| 96  | Near Promising Future of near Infrared Hyperspectral Imaging in Forensic Sciences. <i>NIR News</i> , 2014, 25, 6-9.  | 0.3  | 5         |
| 97  | Analysis and differentiation of paper samples by capillary electrophoresis and multivariate analysis. <i>Electrophoresis</i> , 2014, 35, 3264-3271.  | 2.4  | 5         |
| 98  | Optimized photonic crystal fibers supporting efficient capillary electrophoresis. <i>Proceedings of SPIE</i> , 2013, , .   | 0.8  | 0         |
| 99  | Raman spectroscopy for forensic analysis of inks in questioned documents. <i>Forensic Science International</i> , 2013, 232, 206-212.  | 2.2  | 133       |
| 100 | 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         |
| 101 | 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        |
| 102 | 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        |
| 103 | Study of the suitability of DUO plastic bags for the storage of dynamites. <i>Forensic Science International</i> , 2013, 232, e33-e37.   | 2.2  | 2         |
| 104 | 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        |
| 105 | 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        |
| 106 | Portable Capillary Electrophoresis Instrument with Automated Injector and Contactless Conductivity Detection. <i>Analytical Chemistry</i> , 2013, 85, 2333-2339.                           | 6.5  | 100       |
| 107 | Peanut Allergens: An Overview. <i>Critical Reviews in Food Science and Nutrition</i> , 2013, 53, 722-737.  | 10.3 | 15        |
| 108 | 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        |

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|-----|---|------|-----------|
| 109 | Dynamite Analysis by Raman Spectroscopy As a Unique Analytical Tool. <i>Analytical Chemistry</i> , 2013, 85, 2595-2600.   | 6.5  | 22        |
| 110 | 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        |
| 111 | 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        |
| 112 | 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        |
| 113 | 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        |
| 114 | Separation of olive proteins by capillary gel electrophoresis. <i>Talanta</i> , 2012, 97, 420-424.  | 5.5  | 16        |
| 115 | Comparative analysis of smokeless gunpowders by Fourier transform infrared and Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2012, 717, 92-99.  | 5.4  | 33        |
| 116 | Determination of nitrocellulose by capillary electrophoresis with laser-induced fluorescence detection. <i>Analytica Chimica Acta</i> , 2012, 745, 149-155.   | 5.4  | 26        |
| 117 | Qualitative determination of inorganic anions in incendiary device residues by capillary electrophoresis. <i>Analytical Methods</i> , 2012, 4, 2680.  | 2.7  | 14        |
| 118 | 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        |
| 119 | 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        |
| 120 | Why is methenamine detected in Goma-2 dynamites originally methenamine free? An interpretation of relevant forensic results. <i>Forensic Science International</i> , 2012, 216, 183-188.  | 2.2  | 1         |
| 121 | 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        |
| 122 | Analytical techniques in the study of highly-nitrated nitrocellulose. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1740-1755.   | 11.4 | 81        |
| 123 | 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         |
| 124 | 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, 3353-3358.  | 2.5  | 2         |
| 125 | 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        |
| 126 | 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         |



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|-----|---|-----|-----------|
| 127 | 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        |
| 128 | Recent approaches for enhancing sensitivity in enantioseparations by CE. <i>Electrophoresis</i> , 2010, 31, 28-43.  | 2.4 | 28        |
| 129 | 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        |
| 130 | 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        |
| 131 | Traceability Markers to the Botanical Origin in Olive Oils. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 28-38.  | 5.2 | 97        |
| 132 | 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        |
| 133 | New protocol for the isolation of nitrocellulose from gunpowders: Utility in their identification. <i>Talanta</i> , 2010, 81, 1742-1749.  | 5.5 | 39        |
| 134 | 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         |
| 135 | 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        |
| 136 | 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        |
| 137 | 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        |
| 138 | Development of a CE-ESI-ITMS method for the enantiomeric determination of the non-protein amino acid ornithine. <i>Electrophoresis</i> , 2009, 30, 1724-1733.   | 2.4 | 31        |
| 139 | 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        |
| 140 | Sensitive chiral analysis by CE: An update. <i>Electrophoresis</i> , 2008, 29, 237-251.   | 2.4 | 54        |
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