MarÃ-a Pedrero

List of Publications by Year in descending order

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| | | 109321 | 168389 |
|----------|----------------|--------------|----------------|
| 113 | 3,551 | 35 | 53 |
| papers | citations | h-index | g-index |
| | | | |
| | | | |
| 115 | 115 | 115 | 3961 |
| 113 | 113 | 113 | 3701 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Anticipating metastasis through electrochemical immunosensing of tumor hypoxia biomarkers. Analytical and Bioanalytical Chemistry, 2022, 414, 399-412. | 3.7 | 11 |
| 2 | Electrochemical immunosensing of Growth arrestâ€specific 6 in human plasma and tumor cell secretomes. Electrochemical Science Advances, 2022, 2, e2100096. | 2.8 | 4 |
| 3 | Contemporary electrochemical sensing and affinity biosensing to assist traces metal ions determination in clinical samples. Electrochemical Science Advances, 2022, 2, e2100144. | 2.8 | 1 |
| 4 | Empowering Electrochemical Biosensing through Nanostructured or Multifunctional Nucleic Acid or Peptide Biomaterials. Advanced Materials Technologies, 2022, 7, . | 5.8 | 10 |
| 5 | Dextran-coated nanoparticles as immunosensing platforms: Consideration of polyaldehyde density, nanoparticle size and functionality. Talanta, 2022, 247, 123549. | 5.5 | 13 |
| 6 | Electrocatalytic (bio)platforms for the determination of tetracyclines. Journal of Solid State Electrochemistry, 2021, 25, 3-13. | 2.5 | 5 |
| 7 | Disposable immunoplatforms for the simultaneous determination of biomarkers for neurodegenerative disorders using poly(amidoamine) dendrimer/gold nanoparticle nanocomposite. Analytical and Bioanalytical Chemistry, 2021, 413, 799-811. | 3.7 | 32 |
| 8 | Magnetic microbeads-based amperometric immunoplatform for the rapid and sensitive detection of N6-methyladenosine to assist in metastatic cancer cells discrimination. Biosensors and Bioelectronics, 2021, 171, 112708. | 10.1 | 14 |
| 9 | Electrochemical Immunosensing of ST2: A Checkpoint Target in Cancer Diseases. Biosensors, 2021, 11, 202. | 4.7 | 11 |
| 10 | New challenges in point of care electrochemical detection of clinical biomarkers. Sensors and Actuators B: Chemical, 2021, 345, 130349. | 7.8 | 67 |
| 11 | Multiplexed magnetic beads-assisted amperometric bioplatforms for global detection of methylations in nucleic acids. Analytica Chimica Acta, 2021, 1182, 338946. | 5.4 | 10 |
| 12 | Dual Amperometric Immunosensor for Improving Cancer Metastasis Detection by the Simultaneous Determination of Extracellular and Soluble Circulating Fraction of Emerging Metastatic Biomarkers. Electroanalysis, 2020, 32, 706-714. | 2.9 | 10 |
| 13 | Magnetic beads-based electrochemical immunosensing of HIF- $1\hat{l}_{\pm}$, a biomarker of tumoral hypoxia. Sensors and Actuators B: Chemical, 2020, 307, 127623. | 7.8 | 23 |
| 14 | A novel zinc finger protein–based amperometric biosensor for miRNA determination. Analytical and Bioanalytical Chemistry, 2020, 412, 5031-5041. | 3.7 | 26 |
| 15 | Easily Multiplexable Immunoplatform to Assist Heart Failure Diagnosis through Amperometric Determination of Galectinâ€3. Electroanalysis, 2020, 32, 2775-2785. | 2.9 | 4 |
| 16 | An electrochemical immunosensor using gold nanoparticles-PAMAM-nanostructured screen-printed carbon electrodes for tau protein determination in plasma and brain tissues from Alzheimer patients. Biosensors and Bioelectronics, 2020, 163, 112238. | 10.1 | 83 |
| 17 | Enlightening the advancements in electrochemical bioanalysis for the diagnosis of Alzheimer's disease and other neurodegenerative disorders. Journal of Pharmaceutical and Biomedical Analysis, 2020, 189, 113437. | 2.8 | 25 |
| 18 | Beyond Sensitive and Selective Electrochemical Biosensors: Towards Continuous, Real-Time, Antibiofouling and Calibration-Free Devices. Sensors, 2020, 20, 3376. | 3.8 | 33 |

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|----|---|------|-----------|
| 19 | Nanozymes in electrochemical affinity biosensing. Mikrochimica Acta, 2020, 187, 423. | 5.0 | 34 |
| 20 | Amperometric Bioplatforms To Detect Regional DNA Methylation with Single-Base Sensitivity. Analytical Chemistry, 2020, 92, 5604-5612. | 6.5 | 35 |
| 21 | Electrochemical biosensing to move forward in cancer epigenetics and metastasis: A review. Analytica Chimica Acta, 2020, 1109, 169-190. | 5.4 | 17 |
| 22 | A novel peptide-based electrochemical biosensor for the determination of a metastasis-linked protease in pancreatic cancer cells. Analytical and Bioanalytical Chemistry, 2020, 412, 6177-6188. | 3.7 | 26 |
| 23 | Biosensing and Delivery of Nucleic Acids Involving Selected Well-Known and Rising Star Functional Nanomaterials. Nanomaterials, 2019, 9, 1614. | 4.1 | 2 |
| 24 | Magnetic Janus Particles for Static and Dynamic (Bio)Sensing. Magnetochemistry, 2019, 5, 47. | 2.4 | 26 |
| 25 | Opportunities, Challenges, and Prospects in Electrochemical Biosensing of Circulating Tumor DNA and its Specific Features. Sensors, 2019, 19, 3762. | 3.8 | 21 |
| 26 | Antifouling (Bio)materials for Electrochemical (Bio)sensing. International Journal of Molecular Sciences, 2019, 20, 423. | 4.1 | 93 |
| 27 | Electrochemical biosensors for autoantibodies in autoimmune and cancer diseases. Analytical Methods, 2019, 11, 871-887. | 2.7 | 27 |
| 28 | Advances in Electrochemical (Bio)Sensing Targeting Epigenetic Modifications of Nucleic Acids. Electroanalysis, 2019, 31, 1816-1832. | 2.9 | 12 |
| 29 | Disposable Amperometric Immunosensor for the Determination of the E adherin Tumor Suppressor Protein in Cancer Cells and Human Tissues. Electroanalysis, 2019, 31, 309-317. | 2.9 | 12 |
| 30 | Versatile Electroanalytical Bioplatforms for Simultaneous Determination of Cancer-Related DNA 5-Methyl- and 5-Hydroxymethyl-Cytosines at Global and Gene-Specific Levels in Human Serum and Tissues. ACS Sensors, 2019, 4, 227-234. | 7.8 | 56 |
| 31 | Electrochemical affinity biosensors for fast detection of gene-specific methylations with no need for bisulfite and amplification treatments. Scientific Reports, 2018, 8, 6418. | 3.3 | 62 |
| 32 | Comparison of Different Strategies for the Development of Highly Sensitive Electrochemical Nucleic Acid Biosensors Using Neither Nanomaterials nor Nucleic Acid Amplification. ACS Sensors, 2018, 3, 211-221. | 7.8 | 41 |
| 33 | Rapid Electrochemical Assessment of Tumor Suppressor Gene Methylations in Raw Human Serum and Tumor Cells and Tissues Using Immunomagnetic Beads and Selective DNA Hybridization. Angewandte Chemie, 2018, 130, 8326-8330. | 2.0 | 49 |
| 34 | Rapid Electrochemical Assessment of Tumor Suppressor Gene Methylations in Raw Human Serum and Tumor Cells and Tissues Using Immunomagnetic Beads and Selective DNA Hybridization. Angewandte Chemie - International Edition, 2018, 57, 8194-8198. | 13.8 | 61 |
| 35 | Electrochemical Nucleic Acid-Based Biosensing of Drugs of Abuse and Pharmaceuticals. Current Medicinal Chemistry, 2018, 25, 4102-4118. | 2.4 | 16 |
| 36 | Hybrid 2D-nanomaterials-based electrochemical immunosensing strategies for clinical biomarkers determination. Biosensors and Bioelectronics, 2017, 89, 269-279. | 10.1 | 45 |

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|----|--|------|-----------|
| 37 | Electrochemical (Bio)sensing of Clinical Markers Using Quantum Dots. Electroanalysis, 2017, 29, 24-37. | 2.9 | 21 |
| 38 | Quantum Dots as Components of Electrochemical Sensing Platforms for the Detection of Environmental and Food Pollutants: a Review. Journal of AOAC INTERNATIONAL, 2017, 100, 950-961. | 1.5 | 46 |
| 39 | Magnetic Beads-Based Sensor with Tailored Sensitivity for Rapid and Single-Step Amperometric Determination of miRNAs. International Journal of Molecular Sciences, 2017, 18, 2151. | 4.1 | 30 |
| 40 | Amperometric Immunosensing Scaffolds for Rapid, Simple, Non-Invasive and Accurate Determination of Protein Biomarkers of Well-Accepted and Emerging Clinical Importance. Proceedings (mdpi), 2017, 1, 727. | 0.2 | 0 |
| 41 | Non-Invasive Breast Cancer Diagnosis through Electrochemical Biosensing at Different Molecular Levels. Sensors, 2017, 17, 1993. | 3.8 | 40 |
| 42 | Electrochemical Nucleic Acid-Based Strategies for miRNAs Determination. Comprehensive Analytical Chemistry, 2017, 77, 179-205. | 1.3 | 3 |
| 43 | Electrochemical sensor for rapid determination of fibroblast growth factor receptor 4 in raw cancer cell lysates. PLoS ONE, 2017, 12, e0175056. | 2.5 | 22 |
| 44 | Disposable Amperometric Immunosensor for the Determination of Human P53 Protein in Cell Lysates Using Magnetic Micro-Carriers. Biosensors, 2016, 6, 56. | 4.7 | 24 |
| 45 | Rapid endoglin determination in serum samples using an amperometric magneto-actuated disposable immunosensing platform. Journal of Pharmaceutical and Biomedical Analysis, 2016, 129, 288-293. | 2.8 | 10 |
| 46 | Viral protein-based bioanalytical tools for small RNA biosensing. TrAC - Trends in Analytical Chemistry, 2016, 79, 335-343. | 11.4 | 16 |
| 47 | Dual Functional Graphene Derivative-Based Electrochemical Platforms for Detection of the <i>TP53</i> Gene with Single Nucleotide Polymorphism Selectivity in Biological Samples. Analytical Chemistry, 2015, 87, 2290-2298. | 6.5 | 76 |
| 48 | Hybrid Metallic Nanoparticles: Enhanced Bioanalysis and Biosensing via Carbon Nanotubes, Graphene, and Organic Conjugation., 2015,, 137-166. | | 5 |
| 49 | Amperometric magnetoimmunoassay for the determination of lipoprotein(a). Mikrochimica Acta, 2015, 182, 1457-1464. | 5.0 | 6 |
| 50 | Electrochemical genosensors for the detection of cancer-related miRNAs. Analytical and Bioanalytical Chemistry, 2014, 406, 27-33. | 3.7 | 65 |
| 51 | Electrochemical Biosensors for the Determination of Cardiovascular Markers: a Review. Electroanalysis, 2014, 26, 1132-1153. | 2.9 | 58 |
| 52 | Lipoprotein(a) determination in human serum using a nitrilotriacetic acid derivative immunosensing scaffold on disposable electrodes. Analytical and Bioanalytical Chemistry, 2014, 406, 5379-5387. | 3.7 | 5 |
| 53 | Multiplexed Determination of Aminoâ€Terminal Proâ€Bâ€Type Natriuretic Peptide and Câ€Reactive Protein Cardiac Biomarkers in Human Serum at a Disposable Electrochemical Magnetoimmunosensor. Electroanalysis, 2014, 26, 254-261. | 2.9 | 37 |
| 54 | Clinical evaluation of a disposable amperometric magneto-genosensor for the detection and identification of Streptococcus pneumoniae. Journal of Microbiological Methods, 2014, 103, 25-28. | 1.6 | 17 |

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|----|--|------|-----------|
| 55 | Ultrasensitive amperometric magnetoimmunosensor for human C-reactive protein quantification in serum. Sensors and Actuators B: Chemical, 2013, 188, 212-220. | 7.8 | 68 |
| 56 | Nanostructured rough gold electrodes as platforms to enhance the sensitivity of electrochemical genosensors. Analytica Chimica Acta, 2013, 788, 141-147. | 5.4 | 18 |
| 57 | Disposable amperometric magnetoimmunosensor for the sensitive detection of the cardiac biomarker amino-terminal pro-B-type natriuretic peptide in human serum. Analytica Chimica Acta, 2013, 784, 18-24. | 5.4 | 34 |
| 58 | Disposable Electrochemical Magnetoimmunosensor for the Determination of Troponin T Cardiac Marker. Electroanalysis, 2013, 25, 51-58. | 2.9 | 23 |
| 59 | Oligonucleotide and DNA Microarrays as Versatile Tools for Rapid Diagnostics. Series in Sensors, 2013, , 571-604. | 0.0 | 0 |
| 60 | Carbon-Polymer Bio-Nano-Composite Electrodes for Electrochemical Genosensing Mar \ddot{A} ± \hat{A} ′a Isabel Pividori and Salvador Alegret. , 2012, , 75-120. | | 0 |
| 61 | Design and fabrication of a <scp>COP</scp> â€based microfluidic chip: Chronoamperometric detection of <scp>T</scp> roponin <scp>T</scp> . Electrophoresis, 2012, 33, 3187-3194. | 2.4 | 19 |
| 62 | Sensitive and rapid amperometric magnetoimmunosensor for the determination of Staphylococcus aureus. Analytical and Bioanalytical Chemistry, 2012, 403, 917-925. | 3.7 | 66 |
| 63 | Magnetic Beadsâ€Based Electrochemical Sensors Applied to the Detection and Quantification of Bioterrorism/Biohazard Agents. Electroanalysis, 2012, 24, 470-482. | 2.9 | 41 |
| 64 | Electrochemical Biosensing of Pathogen Micro-Organisms. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 119-137. | 0.5 | 0 |
| 65 | Electrochemical genosensors based on PCR strategies for microorganisms detection and quantification. Analytical Methods, 2011, 3, 780. | 2.7 | 32 |
| 66 | Development of amperometric magnetogenosensors coupled to asymmetric PCR for the specific detection of Streptococcus pneumoniae. Analytical and Bioanalytical Chemistry, 2011, 399, 2413-2420. | 3.7 | 30 |
| 67 | Disposable amperometric magnetoimmunosensors for the specific detection of Streptococcus pneumoniae. Biosensors and Bioelectronics, 2010, 26, 1225-1230. | 10.1 | 40 |
| 68 | Molecular mechanisms of methylmercury-induced cell death in human HepG2 cells. Food and Chemical Toxicology, 2010, 48, 1405-1411. | 3.6 | 32 |
| 69 | Electroanalytical Sensors and Devices for Multiplexed Detection of Foodborne Pathogen Microorganisms. Sensors, 2009, 9, 5503-5520. | 3.8 | 60 |
| 70 | Gold screen-printed-based impedimetric immunobiosensors for direct and sensitive Escherichia coli quantisation. Biosensors and Bioelectronics, 2009, 24, 3365-3371. | 10.1 | 87 |
| 71 | Ultrasensitive detection of coliforms by means of direct asymmetric PCR combined with disposable magnetic amperometric genosensors. Analyst, The, 2009, 134, 34-37. | 3.5 | 22 |
| 72 | Amperometric DNA quantification based on the use of peroxidase-mercaptopropionic acid-modified gold electrodes. Sensors and Actuators B: Chemical, 2008, 132, 250-257. | 7.8 | 14 |

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|----|--|------|-----------|
| 73 | Immunosensor for the determination of Staphylococcus aureus using a tyrosinase–mercaptopropionic acid modified electrode as an amperometric transducer. Analytical and Bioanalytical Chemistry, 2008, 391, 837-845. | 3.7 | 48 |
| 74 | Designs of Enterobacteriaceae Lac Z Gene DNA Gold Screen Printed Biosensors. Electroanalysis, 2008, 20, 1397-1405. | 2.9 | 28 |
| 75 | Development of amperometric biosensors using thiolated tetrathiafulvalene-derivatised self-assembled monolayer modified electrodes. Sensors and Actuators B: Chemical, 2008, 134, 974-980. | 7.8 | 12 |
| 76 | Disposable Magnetic DNA Sensors for the Determination at the Attomolar Level of a Specific <i>Enterobacteriaceae</i> Family Gene. Analytical Chemistry, 2008, 80, 8239-8245. | 6.5 | 62 |
| 77 | Electrochemical immunosensor designs for the determination of Staphylococcus aureus using 3,3-dithiodipropionic acid di(N-succinimidyl ester)-modified gold electrodes. Talanta, 2008, 77, 876-881. | 5.5 | 36 |
| 78 | DNA sensor based on an Escherichia coli lac Z gene probe immobilization at self-assembled monolayers-modified gold electrodes. Talanta, 2007, 73, 838-844. | 5.5 | 45 |
| 79 | Adaptive Orientation of Multifunctional Nanowires for Magnetic Control of Bioelectrocatalytic Processes. Angewandte Chemie - International Edition, 2007, 46, 1508-1511. | 13.8 | 43 |
| 80 | Development of an Amperometric Immunosensor for the Quantification of Staphylococcus aureus Using Self-Assembled Monolayer-Modified Electrodes as Immobilization Platforms. Electroanalysis, 2007, 19, 1476-1482. | 2.9 | 22 |
| 81 | Tetrathiafulvalene thiolated derivatives self-assembled monolayers as platforms for the construction of electrochemical biosensors. Electrochemistry Communications, 2006, 8, 299-304. | 4.7 | 8 |
| 82 | Characterization of alkanethiol-self-assembled monolayers-modified gold electrodes by electrochemical impedance spectroscopy. Journal of Electroanalytical Chemistry, 2006, 586, 112-121. | 3.8 | 166 |
| 83 | Development of a DNA Sensor Based on Alkanethiol Self- Assembled Monolayer-Modified Electrodes. Sensors, 2005, 5, 344-363. | 3.8 | 30 |
| 84 | A peroxidase-tetrathiafulvalene biosensor based on self-assembled monolayer modified Au electrodes for the flow-injection determination of hydrogen peroxide. Talanta, 2005, 66, 1310-1319. | 5.5 | 66 |
| 85 | Voltammetric Determination of Antibacterial Nitro-Compounds at Activated Carbon Fibre Microelectrodes. Electroanalysis, 2004, 16, 1763-1770. | 2.9 | 21 |
| 86 | A Lactulose Bienzyme Biosensor Based on Self-Assembled Monolayer Modified Electrodes. Electroanalysis, 2004, 16, 1385-1392. | 2.9 | 11 |
| 87 | An integrated bienzyme glucose oxidase–fructose dehydrogenase–tetrathiafulvalene-3-mercaptopropionic acid–gold electrode for the simultaneous determination of glucose and fructose. Bioelectrochemistry, 2004, 63, 199-206. | 4.6 | 36 |
| 88 | An integrated electrochemical fructose biosensor based on tetrathiafulvalene-modified self-assembled monolayers on gold electrodes. Analytical and Bioanalytical Chemistry, 2003, 377, 600-607. | 3.7 | 36 |
| 89 | Voltametric and Flow Injection Determination of Oxytetracycline Residues in Food Samples Using Carbon Fiber Microelectrodes. Electroanalysis, 2003, 15, 601-607. | 2.9 | 10 |
| 90 | Amperometric flow-injection determination of phenolic compounds at self-assembled monolayer-based tyrosinase biosensors. Analytica Chimica Acta, 2003, 494, 187-197. | 5.4 | 136 |

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| 91 | Flow injection and HPLC determination of furosemide using pulsed amperometric detection at microelectrodes. Journal of Pharmaceutical and Biomedical Analysis, 2003, 33, 923-933. | 2.8 | 32 |
| 92 | Carbon fiber cylindrical microelectrode-based detector for the determination of antithyroid drugs. Talanta, 2002, 56, 577-584. | 5.5 | 10 |
| 93 | Determination of Disulfiram by Adsorptive Stripping Voltammetry at Gold Disk Microelectrodes. Electroanalysis, 2002, 14, 486-492. | 2.9 | 5 |
| 94 | Preparation, characterization and application of alkanethiol self-assembled monolayers modified with tetrathiafulvalene and glucose oxidase at a gold disk electrode. Journal of Electroanalytical Chemistry, 2002, 526, 92-100. | 3.8 | 113 |
| 95 | Determination of the herbicide desmetryne in organised media by adsorptive stripping voltammetry. Talanta, 2001, 53, 991-1000. | 5. 5 | 9 |
| 96 | Ruthenium and ruthenium dioxide-modified graphite–ethylene/propylene/diene and graphite–Teflon composite electrodes as amperometric flow detectors. Application to the determination of methionine. Fresenius' Journal of Analytical Chemistry, 2001, 371, 507-513. | 1.5 | 8 |
| 97 | Voltammetric Determination of Methylthiouracil in Animal Feed Using Carbon Fiber Microelectrodes. Electroanalysis, 2001, 13, 1301-1304. | 2.9 | 6 |
| 98 | Oil-in-water emulsions as suitable working media for the direct polarographic determination of aziprotryne and desmetryne from its organic extracts in water samples. Fresenius' Journal of Analytical Chemistry, 2000, 367, 454-460. | 1.5 | 4 |
| 99 | Graphite-Ethylene/Propylene/Diene Terpolymer Composite Electrodes. A New Electrode Material for Electrochemical Detection. Electroanalysis, 1999, 11, 161-166. | 2.9 | 4 |
| 100 | Graphite-teflon-tyrosinase composite electrodes for the monitoring of phenolic compounds in predominantly non aqueous media. Analusis - European Journal of Analytical Chemistry, 1999, 27, 592-599. | 0.4 | 17 |
| 101 | Electrochemical activation of screen-printed carbon strips. Analyst, The, 1996, 121, 345. | 3.5 | 160 |
| 102 | Determination of the pKa values for polycationic species derived from 9-hydroxy and 9-aminothiazolo[5,4-b]quinolines. A problem related to the tautomerism of these systems. Tetrahedron, 1996, 52, 11929-11946. | 1.9 | 5 |
| 103 | Remarkably selective metallized-carbon amperometric biosensors. Analytica Chimica Acta, 1995, 305, 3-7. | 5.4 | 53 |
| 104 | Screen-printed amperometric biosensors for glucose and alcohols based on ruthenium-dispersed carbon inks. Analytica Chimica Acta, 1995, 300, 111-116. | 5.4 | 50 |
| 105 | Highly selective biosensing of lactate at lactate oxidase containing rhodium-dispersed carbon paste electrodes. Analytica Chimica Acta, 1995, 304, 41-46. | 5. 4 | 23 |
| 106 | Adsorptive stripping voltammetry in dispersed media. Application to the determination of the herbicide terbutryn. Electroanalysis, 1995, 7, 644-648. | 2,9 | 11 |
| 107 | Metal-dispersed screen-printed carbon electrodes. Electroanalysis, 1995, 7, 1032-1034. | 2.9 | 21 |
| 108 | Palladium-doped screen-printed electrodes for monitoring formaldehyde. Analyst, The, 1995, 120, 1969. | 3. 5 | 20 |

Marãa Pedrero

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| 109 | Determination of dinoseb by adsorptive stripping voltammetry using a mercury film electrode. Fresenius' Journal of Analytical Chemistry, 1994, 349, 546-551. | 1.5 | 7 |
| 110 | Polarographic study of simazine in micellar and emulsified media. Analytica Chimica Acta, 1993, 273, 343-349. | 5.4 | 22 |
| 111 | Determination of methoprotryne and terbutryn by adsorptive stripping voltammetry on the hanging mercury drop electrode. Analyst, The, 1993, 118, 1405-1410. | 3.5 | 21 |
| 112 | Determination of Dinoseb by adsorptive stripping voltammetry. Electroanalysis, 1991, 3, 419-422. | 2.9 | 13 |
| 113 | Determination of formaldehyde in air by flow injection using pararosaniline and spectrophotometric detection. Analyst, The, 1989, 114, 1469-1471. | 3.5 | 37 |