

Charles Henry

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

235
papers

12,750
citations

56
h-index

107
g-index

261
ext. papers

14,685
ext. citations

6.1
avg, IF

7.1
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 235 | An electrochemical paper-based analytical sensor for one-step latex protein detection.. <i>Analyst, The</i> , 2022 , | 5 | 1 |
| 234 | All-solid-state potassium-selective sensor based on carbon black modified thermoplastic electrode. <i>Electrochimica Acta</i> , 2022 , 404, 139762 | 6.7 | 1 |
| 233 | A novel l-cysteine sensor using in-situ electropolymerization of l-cysteine: Potential to simple and selective detection. <i>Talanta</i> , 2022 , 237, 122983 | 6.2 | 6 |
| 232 | Colorimetric Paper-Based Analytical Device for Perfluorooctanesulfonate Detection. <i>ACS ES&T Water</i> , 2022 , 2, 565-572 | | 0 |
| 231 | Microfluidic-based ion-selective thermoplastic electrode array for point-of-care detection of potassium and sodium ions.. <i>Mikrochimica Acta</i> , 2022 , 189, 152 | 5.8 | 3 |
| 230 | Simple manipulation of enzyme-linked immunosorbent assay (ELISA) using an automated microfluidic interface.. <i>Analytical Methods</i> , 2022 , 14, 1774-1781 | 3.2 | 1 |
| 229 | Rapid prototyping of ion-selective electrodes using a low-cost 3D printed internet-of-things (IoT) controlled robot. <i>Talanta</i> , 2022 , 247, 123544 | 6.2 | 1 |
| 228 | Method for analysis of environmental lead contamination in soils. <i>Analyst, The</i> , 2021 , 146, 7520-7527 | 5 | 0 |
| 227 | Synthesis and grafting of diazonium tosylates for thermoplastic electrode immunosensors. <i>Analytical Methods</i> , 2021 , 13, 5056-5064 | 3.2 | 2 |
| 226 | Analysis of Peptides using Asymmetrical Flow Field-flow Fractionation (AF4). <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 3969-3972 | 3.9 | 0 |
| 225 | Electrochemical Capillary-Flow Immunoassay for Detecting Anti-SARS-CoV-2 Nucleocapsid Protein Antibodies at the Point of Care. <i>ACS Sensors</i> , 2021 , 6, 4067-4075 | 9.2 | 9 |
| 224 | SECM Investigation of Carbon Composite Thermoplastic Electrodes. <i>Analytical Chemistry</i> , 2021 , 93, 13047-13093 | 7.1 | 3 |
| 223 | Electrochemical paper-based analytical device for multiplexed, point-of-care detection of cardiovascular disease biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129336 | 8.5 | 28 |
| 222 | Design and application of a self-pumping microfluidic staggered herringbone mixer. <i>Microfluidics and Nanofluidics</i> , 2021 , 25, 1 | 2.8 | 3 |
| 221 | Simple biodegradable plastic screen-printing for microfluidic paper-based analytical devices. <i>Sensors and Actuators B: Chemical</i> , 2021 , 331, 129463 | 8.5 | 8 |
| 220 | Thermoplastic Electrodes for Detection of Escherichia coli. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 047509 | 3.9 | 2 |
| 219 | Review Recent Advances in Sensor Arrays for the Simultaneous Electrochemical Detection of Multiple Analytes. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 057507 | 3.9 | 10 |

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| 218 | Microfluidic Paper-Based Analytical Devices: From Design to Applications. <i>Chemical Reviews</i> , 2021 , 121, 11835-11885 | 68.1 | 42 |
| 217 | Exploring carbon particle type and plasma treatment to improve electrochemical properties of stencil-printed carbon electrodes. <i>Talanta</i> , 2021 , 221, 121553 | 6.2 | 11 |
| 216 | NFC-enabling smartphone-based portable amperometric immunosensor for hepatitis B virus detection. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128825 | 8.5 | 34 |
| 215 | A facile one-step gold nanoparticles enhancement based on sequential patterned lateral flow immunoassay device for C-reactive protein detection. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129247 | 8.5 | 13 |
| 214 | Flow control in a laminate capillary-driven microfluidic device. <i>Analyst, The</i> , 2021 , 146, 1932-1939 | 5 | 7 |
| 213 | Padlock probe-based rolling circle amplification lateral flow assay for point-of-need nucleic acid detection. <i>Analyst, The</i> , 2021 , 146, 4340-4347 | 5 | 4 |
| 212 | Highly selective simultaneous determination of Cu(ii), Co(ii), Ni(ii), Hg(ii), and Mn(ii) in water samples using microfluidic paper-based analytical devices. <i>Analyst, The</i> , 2021 , 146, 2229-2239 | 5 | 12 |
| 211 | Thermoplastic electrodes as a new electrochemical platform coupled to microfluidic devices for tryptamine determination. <i>Analytica Chimica Acta</i> , 2021 , 1147, 116-123 | 6.6 | 7 |
| 210 | Distance-Based Paper Device for a Naked-Eye Albumin-to-Alkaline Phosphatase Ratio Assay. <i>ACS Sensors</i> , 2021 , 6, 3047-3055 | 9.2 | 3 |
| 209 | Sensors for detecting per- and polyfluoroalkyl substances (PFAS): A critical review of development challenges, current sensors, and commercialization obstacles. <i>Chemical Engineering Journal</i> , 2021 , 417, 129133 | 14.7 | 17 |
| 208 | Pump-Free Microfluidic Device for the Electrochemical Detection of α -Acid Glycoprotein. <i>ACS Sensors</i> , 2021 , 6, 2998-3005 | 9.2 | 2 |
| 207 | High spatial resolution fluorescence imagery for optimized pest management within a Huanglongbing-infected citrus grove. <i>Phytopathology</i> , 2021 , | 3.8 | 1 |
| 206 | Immobilization of Proteinase K for urine pretreatment to improve diagnostic accuracy of active tuberculosis. <i>PLoS ONE</i> , 2021 , 16, e0257615 | 3.7 | 2 |
| 205 | Redox behavior and surface morphology of polystyrene thermoplastic electrodes. <i>Electrochimica Acta</i> , 2021 , 393, 139069 | 6.7 | 3 |
| 204 | Paper-based analytical devices for virus detection: Recent strategies for current and future pandemics. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 144, 116424 | 14.6 | 9 |
| 203 | Plug-and-play assembly of paper-based colorimetric and electrochemical devices for multiplexed detection of metals. <i>Analyst, The</i> , 2021 , 146, 3463-3473 | 5 | 10 |
| 202 | Micromolded Carbon Paste Microelectrodes for Electrogenated Chemiluminescent Detection on Microfluidic Devices. <i>ChemElectroChem</i> , 2020 , 7, 3244-3252 | 4.3 | 0 |
| 201 | Sealing 3D-printed parts to poly(dimethylsiloxane) for simple fabrication of Microfluidic devices. <i>Analytica Chimica Acta</i> , 2020 , 1124, 78-84 | 6.6 | 12 |

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| 200 | Paper-based nuclease protection assay with on-chip sample pretreatment for point-of-need nucleic acid detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 3051-3061 | 4.4 | 7 |
| 199 | Emerging applications of paper-based analytical devices for drug analysis: A review. <i>Analytica Chimica Acta</i> , 2020 , 1116, 70-90 | 6.6 | 63 |
| 198 | Sensitive distance-based paper-based quantification of mercury ions using carbon nanodots and heating-based preconcentration.. <i>RSC Advances</i> , 2020 , 10, 9884-9893 | 3.7 | 17 |
| 197 | Pump-Free Microfluidic Rapid Mixer Combined with a Paper-Based Channel. <i>ACS Sensors</i> , 2020 , 5, 2230-2238 | 7.38 | 16 |
| 196 | Simultaneous electrochemical detection in paper-based analytical devices. <i>Current Opinion in Electrochemistry</i> , 2020 , 23, 1-6 | 7.2 | 22 |
| 195 | Dynamic classification of personal microenvironments using a suite of wearable, low-cost sensors. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020 , 30, 962-970 | 6.7 | 2 |
| 194 | Advances in Paper-Based Analytical Devices. <i>Annual Review of Analytical Chemistry</i> , 2020 , 13, 85-109 | 12.5 | 97 |
| 193 | Viscosity measurements utilizing a fast-flow microfluidic paper-based device. <i>Sensors and Actuators B: Chemical</i> , 2020 , 319, 128240 | 8.5 | 13 |
| 192 | USB powered microfluidic paper-based analytical devices. <i>Electrophoresis</i> , 2020 , 41, 562-569 | 3.6 | 10 |
| 191 | Anodic stripping voltammetric determination of lead and cadmium with stencil-printed transparency electrodes 2020 , 35-45 | | |
| 190 | Electrochemical paper-based devices: sensing approaches and progress toward practical applications. <i>Lab on A Chip</i> , 2020 , 20, 9-34 | 7.2 | 109 |
| 189 | A microfluidic organotypic device for culture of mammalian intestines ex vivo. <i>Analytical Methods</i> , 2020 , 12, 297-303 | 3.2 | 15 |
| 188 | Rapid Analysis in Continuous-Flow Electrochemical Paper-Based Analytical Devices. <i>ACS Sensors</i> , 2020 , 5, 274-281 | 9.2 | 23 |
| 187 | Review-Chemical and Biological Sensors for Viral Detection. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037523 | 3.9 | 62 |
| 186 | Disposable glassy carbon stencil printed electrodes for trace detection of cadmium and lead. <i>Analytica Chimica Acta</i> , 2020 , 1103, 58-66 | 6.6 | 21 |
| 185 | Janus Electrochemical Paper-Based Analytical Devices for Metals Detection in Aerosol Samples. <i>Analytical Chemistry</i> , 2020 , 92, 1439-1446 | 7.8 | 25 |
| 184 | Read-by-eye quantification of aluminum (III) in distance-based microfluidic paper-based analytical devices. <i>Analytica Chimica Acta</i> , 2020 , 1100, 156-162 | 6.6 | 20 |
| 183 | A Chemometric Approach Toward Predicting the Relative Aggregation Propensity: A(1-42). <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 624-632 | 3.9 | 2 |

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| 182 | High-throughput, semi-automated dithiothreitol (DTT) assays for oxidative potential of fine particulate matter. <i>Atmospheric Environment</i> , 2020 , 222, 117132 | 5.3 | 10 |
| 181 | Paper-based pump-free magnetophoresis. <i>Analytical Methods</i> , 2020 , 12, 5177-5185 | 3.2 | 7 |
| 180 | Dual Sample Preconcentration for Simultaneous Quantification of Metal Ions Using Electrochemical and Colorimetric Assays. <i>ACS Sensors</i> , 2020 , 5, 3999-4008 | 9.2 | 10 |
| 179 | Fluorescent Dye Paper-Based Method for Assessment of Pesticide Coverage on Leaves and Trees: A Citrus Grove Case Study. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 14009-14014 | 5.7 | 4 |
| 178 | Janus electrochemistry: Simultaneous electrochemical detection at multiple working conditions in a paper-based analytical device. <i>Analytica Chimica Acta</i> , 2019 , 1056, 88-95 | 6.6 | 34 |
| 177 | An ultra-sensitive capacitive microwire sensor for pathogen-specific serum antibody responses. <i>Biosensors and Bioelectronics</i> , 2019 , 131, 46-52 | 11.8 | 17 |
| 176 | A Nuclease Protection ELISA Assay for Colorimetric and Electrochemical Detection of Nucleic Acids. <i>Analytical Methods</i> , 2019 , 11, 1027-1034 | 3.2 | 3 |
| 175 | Polycaprolactone-enabled sealing and carbon composite electrode integration into electrochemical microfluidics. <i>Lab on A Chip</i> , 2019 , 19, 2589-2597 | 7.2 | 18 |
| 174 | Superomniphobic Papers for On-Paper pH Sensors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900232 | 4.6 | 9 |
| 173 | Emerging investigator series: oxidative potential of diesel exhaust particles: role of fuel, engine load, and emissions control. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 819-830 | 4.3 | 1 |
| 172 | Rapid Bacteria Detection at Low Concentrations Using Sequential Immunomagnetic Separation and Paper-Based Isotachophoresis. <i>Analytical Chemistry</i> , 2019 , 91, 9623-9630 | 7.8 | 34 |
| 171 | Multilayered Microfluidic Paper-Based Devices: Characterization, Modeling, and Perspectives. <i>Analytical Chemistry</i> , 2019 , 91, 8966-8972 | 7.8 | 21 |
| 170 | Increasing Applications of Graphite Thermoplastic Electrodes with Aryl Diazonium Grafting. <i>ChemElectroChem</i> , 2019 , 6, 4811-4816 | 4.3 | 9 |
| 169 | Rotary manifold for automating a paper-based immunoassay.. <i>RSC Advances</i> , 2019 , 9, 29078-29086 | 3.7 | 12 |
| 168 | Critical Components and Innovations in Paper-Based Analytical Devices 2019 , 47-87 | | 1 |
| 167 | Beyond the lateral flow assay: A review of paper-based microfluidics. <i>Microelectronic Engineering</i> , 2019 , 206, 45-54 | 2.5 | 146 |
| 166 | Thermoplastic Electrode Arrays in Electrochemical Paper-Based Analytical Devices. <i>Analytical Chemistry</i> , 2019 , 91, 2431-2438 | 7.8 | 29 |
| 165 | Electrochemical Dithiothreitol Assay for Large-Scale Particulate Matter Studies. <i>Aerosol Science and Technology</i> , 2019 , 53, 268-275 | 3.4 | 3 |

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| 164 | Solid-Phase Extraction Coupled to a Paper-Based Technique for Trace Copper Detection in Drinking Water. <i>Environmental Science & Technology</i> , 2018 , 52, 3567-3573 | 10.3 | 43 |
| 163 | Powering ex vivo tissue models in microfluidic systems. <i>Lab on A Chip</i> , 2018 , 18, 1399-1410 | 7.2 | 42 |
| 162 | "Dip-and-read" paper-based analytical devices using distance-based detection with color screening. <i>Lab on A Chip</i> , 2018 , 18, 1485-1493 | 7.2 | 43 |
| 161 | Electrochemical biosensor system using a CMOS microelectrode array provides high spatially and temporally resolved images. <i>Biosensors and Bioelectronics</i> , 2018 , 114, 78-88 | 11.8 | 21 |
| 160 | Rapid flow in multilayer microfluidic paper-based analytical devices. <i>Lab on A Chip</i> , 2018 , 18, 793-802 | 7.2 | 66 |
| 159 | Design considerations for reducing sample loss in microfluidic paper-based analytical devices. <i>Analytica Chimica Acta</i> , 2018 , 1017, 20-25 | 6.6 | 29 |
| 158 | Highly transparent tetraaminophthalocyanine polymer films for DSSC cathodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2767-2774 | 13 | 13 |
| 157 | Observation of Dynamic Surfactant Adsorption Facilitated by Divalent Cation Bridging. <i>Langmuir</i> , 2018 , 34, 1550-1556 | 4 | 13 |
| 156 | An Instrument-free Detection of Antioxidant Activity Using Paper-based Analytical Devices Coated with Nanoceria. <i>Analytical Sciences</i> , 2018 , 34, 97-102 | 1.7 | 20 |
| 155 | IR-Compatible PDMS microfluidic devices for monitoring of enzyme kinetics. <i>Analytica Chimica Acta</i> , 2018 , 1021, 95-102 | 6.6 | 21 |
| 154 | Selective Distance-Based K Quantification on Paper-Based Microfluidics. <i>Analytical Chemistry</i> , 2018 , 90, 4894-4900 | 7.8 | 69 |
| 153 | Laminated and infused Parafilm [®] - paper for paper-based analytical devices. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 3654-3661 | 8.5 | 24 |
| 152 | Electrochemical impedance-based DNA sensor using pyrrolidinyl peptide nucleic acids for tuberculosis detection. <i>Analytica Chimica Acta</i> , 2018 , 1044, 102-109 | 6.6 | 52 |
| 151 | Electrophoretic Separations on Parafilm-Paper-Based Analytical Devices. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 1022-1028 | 8.5 | 8 |
| 150 | Microfluidic devices containing thin rock sections for oil recovery studies. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1 | 2.8 | 11 |
| 149 | Denaturation and Aggregation of Interferon- γ in Aqueous Solution. <i>Pharmaceutical Research</i> , 2018 , 35, 137 | 4.5 | 4 |
| 148 | High throughput detection of deamidation using S-(5Sadenosyl)-L-homocysteine hydrolase and a fluorogenic reagent. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 156, 323-327 | 3.5 | 1 |
| 147 | Development of Paper-Based Analytical Devices for Minimizing the Viscosity Effect in Human Saliva. <i>Theranostics</i> , 2018 , 8, 3797-3807 | 12.1 | 19 |

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| 146 | Quantitative colorimetric paper analytical devices based on radial distance measurements for aqueous metal determination. <i>Analyst, The</i> , 2018 , 143, 3085-3090 | 5 | 29 |
| 145 | Highly Sensitive Detection of Salmonella typhimurium Using a Colorimetric Paper-Based Analytical Device Coupled with Immunomagnetic Separation. <i>Analytical Chemistry</i> , 2018 , 90, 1035-1043 | 7.8 | 127 |
| 144 | Single board computing system for automated colorimetric analysis on low-cost analytical devices. <i>Analytical Methods</i> , 2018 , 10, 5282-5290 | 3.2 | 8 |
| 143 | Uncovering the Formation of Color Gradients for Glucose Colorimetric Assays on Microfluidic Paper-Based Analytical Devices by Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2018 , 90, 11949-11954 | 7.8 | 33 |
| 142 | Personal Exposure to PM Black Carbon and Aerosol Oxidative Potential using an Automated Microenvironmental Aerosol Sampler (AMAS). <i>Environmental Science & Technology</i> , 2018 , 52, 11267-11275 | 10.3 | 20 |
| 141 | Development of an Electrochemical Paper-Based Analytical Device for Trace Detection of Virus Particles. <i>Analytical Chemistry</i> , 2018 , 90, 7777-7783 | 7.8 | 50 |
| 140 | Paper-Based Enzyme Competition Assay for Detecting Falsified β -Lactam Antibiotics. <i>ACS Sensors</i> , 2018 , 3, 1299-1307 | 9.2 | 19 |
| 139 | A distance-based paper sensor for the determination of chloride ions using silver nanoparticles. <i>Analyst, The</i> , 2018 , 143, 3867-3873 | 5 | 36 |
| 138 | Detection of Analgesics and Sedation Drugs in Whiskey Using Electrochemical Paper-based Analytical Devices. <i>Electroanalysis</i> , 2018 , 30, 2250-2257 | 3 | 33 |
| 137 | Colorimetric and Electrochemical Bacteria Detection Using Printed Paper- and Transparency-Based Analytic Devices. <i>Analytical Chemistry</i> , 2017 , 89, 3613-3621 | 7.8 | 138 |
| 136 | Boron Doped Diamond Paste Electrodes for Microfluidic Paper-Based Analytical Devices. <i>Analytical Chemistry</i> , 2017 , 89, 4100-4107 | 7.8 | 64 |
| 135 | Multiplex Paper-Based Colorimetric DNA Sensor Using Pyrrolidinyl Peptide Nucleic Acid-Induced AgNPs Aggregation for Detecting MERS-CoV, MTB, and HPV Oligonucleotides. <i>Analytical Chemistry</i> , 2017 , 89, 5428-5435 | 7.8 | 219 |
| 134 | Utilizing Paper-Based Devices for Antimicrobial-Resistant Bacteria Detection. <i>Angewandte Chemie</i> , 2017 , 129, 6990-6994 | 3.6 | 8 |
| 133 | Utilizing Paper-Based Devices for Antimicrobial-Resistant Bacteria Detection. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6886-6890 | 16.4 | 74 |
| 132 | Electrochemical paper-based peptide nucleic acid biosensor for detecting human papillomavirus. <i>Analytica Chimica Acta</i> , 2017 , 952, 32-40 | 6.6 | 134 |
| 131 | Point-of-need simultaneous electrochemical detection of lead and cadmium using low-cost stencil-printed transparency electrodes. <i>Analytica Chimica Acta</i> , 2017 , 981, 24-33 | 6.6 | 66 |
| 130 | A selective distance-based paper analytical device for copper(II) determination using a porphyrin derivative. <i>Talanta</i> , 2017 , 174, 493-499 | 6.2 | 56 |
| 129 | Versatile fabrication of paper-based microfluidic devices with high chemical resistance using scholar glue and magnetic masks. <i>Analytica Chimica Acta</i> , 2017 , 974, 63-68 | 6.6 | 37 |

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| 128 | Paper-Based Microfluidic Devices: Emerging Themes and Applications. <i>Analytical Chemistry</i> , 2017 , 89, 71-91 | 7.8 | 342 |
| 127 | Paper-based microfluidics for experimental design: screening masking agents for simultaneous determination of Mn(II) and Co(II). <i>Analytical Methods</i> , 2017 , 9, 534-540 | 3.2 | 19 |
| 126 | Low-Cost Reusable Sensor for Cobalt and Nickel Detection in Aerosols Using Adsorptive Cathodic Square-Wave Stripping Voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 805, 75-82 | 4.1 | 17 |
| 125 | Patternable Solvent-Processed Thermoplastic Graphite Electrodes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12623-12631 | 16.4 | 42 |
| 124 | A paper-based colorimetric spot test for the identification of adulterated whiskeys. <i>Chemical Communications</i> , 2017 , 53, 7957-7960 | 5.8 | 27 |
| 123 | AgNP/Bi/Nafion-modified Disposable Electrodes for Sensitive Zn(II), Cd(II), and Pb(II) Detection in Aerosol Samples. <i>Electroanalysis</i> , 2017 , 29, 880-889 | 3 | 30 |
| 122 | Development and evaluation of an ultrasonic personal aerosol sampler. <i>Indoor Air</i> , 2017 , 27, 409-416 | 5.4 | 55 |
| 121 | Role of Buffers in Protein Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 713-733 | 3.9 | 79 |
| 120 | Degassed PDMS pump for controlled extraction from dried filter samples in microfluidic devices. <i>Analytical Methods</i> , 2016 , 8, 8266-8271 | 3.2 | 3 |
| 119 | Development of Electrochemical Paper-based Glucose Sensor Using Cellulose-4-aminophenylboronic Acid-modified Screen-printed Carbon Electrode. <i>Electroanalysis</i> , 2016 , 28, 462-468 | 3 | 44 |
| 118 | Pesticide analysis using nanoceria-coated paper-based devices as a detection platform. <i>Analyst, The</i> , 2016 , 141, 1837-46 | 5 | 74 |
| 117 | Stability of lyophilized teriparatide, PTH(1-34), after reconstitution. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 99, 84-93 | 5.7 | 4 |
| 116 | Paper-based analytical devices for environmental analysis. <i>Analyst, The</i> , 2016 , 141, 1874-87 | 5 | 200 |
| 115 | Characterizing nonconstant instrumental variance in emerging miniaturized analytical techniques. <i>Analytica Chimica Acta</i> , 2016 , 915, 64-73 | 6.6 | 4 |
| 114 | Manganese Detection Using Stencil-printed Carbon Ink Electrodes on Transparency Film. <i>Electroanalysis</i> , 2016 , 28, 679-684 | 3 | 21 |
| 113 | Electrochemistry on Paper-based Analytical Devices: A Review. <i>Electroanalysis</i> , 2016 , 28, 1420-1436 | 3 | 182 |
| 112 | Design of an integrated microelectrode array system for high spatiotemporal resolution chemical imaging 2016 , | | 2 |
| 111 | Label-free detection of C-reactive protein using an electrochemical DNA immunoassay. <i>Sensing and Bio-Sensing Research</i> , 2016 , 8, 14-19 | 3.3 | 30 |

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| 110 | Graphene-polyaniline modified electrochemical droplet-based microfluidic sensor for high-throughput determination of 4-aminophenol. <i>Analytica Chimica Acta</i> , 2016 , 925, 51-60 | 6.6 | 57 |
| 109 | Development of a Quasi-Steady Flow Electrochemical Paper-Based Analytical Device. <i>Analytical Chemistry</i> , 2016 , 88, 10639-10647 | 7.8 | 52 |
| 108 | Electrochemical paper-based microfluidic devices. <i>Electrophoresis</i> , 2015 , 36, 1811-24 | 3.6 | 133 |
| 107 | Multiplexed paper analytical device for quantification of metals using distance-based detection. <i>Lab on A Chip</i> , 2015 , 15, 2808-18 | 7.2 | 170 |
| 106 | Fabrication of IR-transparent microfluidic devices by anisotropic etching of channels in CaF ₂ . <i>Lab on A Chip</i> , 2015 , 15, 4364-8 | 7.2 | 16 |
| 105 | Electrochemical detection in paper-based analytical devices using microwire electrodes. <i>Analytica Chimica Acta</i> , 2015 , 891, 247-54 | 6.6 | 69 |
| 104 | Spatiotemporal norepinephrine mapping using a high-density CMOS microelectrode array. <i>Lab on A Chip</i> , 2015 , 15, 4075-82 | 7.2 | 21 |
| 103 | Recent developments in paper-based microfluidic devices. <i>Analytical Chemistry</i> , 2015 , 87, 19-41 | 7.8 | 843 |
| 102 | Analysis of Nitric Oxide from Chemical Donors Using CMOS Platinum Microelectrodes. <i>Electroanalysis</i> , 2015 , 27, 1104-1109 | 3 | 6 |
| 101 | <i>Pseudomonas moraviensis</i> subsp. <i>stanleyae</i> , a bacterial endophyte of hyperaccumulator <i>Stanleya pinnata</i> , is capable of efficient selenite reduction to elemental selenium under aerobic conditions. <i>Journal of Applied Microbiology</i> , 2015 , 119, 400-10 | 4.7 | 39 |
| 100 | Calibration-free quantitation in microchip zone electrophoresis with conductivity detection. <i>Electrophoresis</i> , 2015 , 36, 1927-34 | 3.6 | 1 |
| 99 | Sensitive electrochemical sensor using a graphene-polyaniline nanocomposite for simultaneous detection of Zn(II), Cd(II), and Pb(II). <i>Analytica Chimica Acta</i> , 2015 , 874, 40-8 | 6.6 | 194 |
| 98 | Low cost, simple three dimensional electrochemical paper-based analytical device for determination of p-nitrophenol. <i>Electrochimica Acta</i> , 2014 , 130, 771-777 | 6.7 | 116 |
| 97 | Multilayer paper-based device for colorimetric and electrochemical quantification of metals. <i>Analytical Chemistry</i> , 2014 , 86, 3555-62 | 7.8 | 256 |
| 96 | LABORATORY EVALUATION OF A MICROFLUIDIC ELECTROCHEMICAL SENSOR FOR AEROSOL OXIDATIVE LOAD. <i>Aerosol Science and Technology</i> , 2014 , 48, 489-497 | 3.4 | 19 |
| 95 | A Simple Microfluidic Electrochemical HPLC Detector for Quantifying Fenton Reactivity from Welding Fumes. <i>Analytical Methods</i> , 2014 , 6, 8180-8186 | 3.2 | 12 |
| 94 | Sensitive, selective analysis of selenium oxoanions using microchip electrophoresis with contact conductivity detection. <i>Analytical Chemistry</i> , 2014 , 86, 8425-32 | 7.8 | 15 |
| 93 | Colorimetric paper-based detection of <i>Escherichia coli</i> , <i>Salmonella</i> spp., and <i>Listeria monocytogenes</i> from large volumes of agricultural water. <i>Journal of Visualized Experiments</i> , 2014 , | 1.6 | 14 |

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| 92 | Rapid detection of transition metals in welding fumes using paper-based analytical devices. <i>Annals of Occupational Hygiene</i> , 2014 , 58, 413-23 | | 18 |
| 91 | One-step polymer screen-printing for microfluidic paper-based analytical device (PAD) fabrication. <i>Analyst, The</i> , 2014 , 139, 6580-8 | 5 | 121 |
| 90 | Electrochemical detection of glucose from whole blood using paper-based microfluidic devices. <i>Analytica Chimica Acta</i> , 2013 , 788, 39-45 | 6.6 | 159 |
| 89 | Microfluidic paper-based analytical device for aerosol oxidative activity. <i>Environmental Science & Technology</i> , 2013 , 47, 932-40 | 10.3 | 68 |
| 88 | A microfluidic paper-based analytical device for rapid quantification of particulate chromium. <i>Analytica Chimica Acta</i> , 2013 , 800, 50-5 | 6.6 | 83 |
| 87 | Determination of aerosol oxidative activity using silver nanoparticle aggregation on paper-based analytical devices. <i>Analyst, The</i> , 2013 , 138, 6766-73 | 5 | 46 |
| 86 | Potential of Microfluidics and Single Cell Analysis in Metabolomics (Micrometabolomics) 2013 , 239-259 | | 1 |
| 85 | Construction and electrochemical characterization of microelectrodes for improved sensitivity in paper-based analytical devices. <i>Analytical Chemistry</i> , 2013 , 85, 5233-9 | 7.8 | 69 |
| 84 | Spatially resolved electrochemical sensing of chemical gradients. <i>Lab on A Chip</i> , 2013 , 13, 208-11 | 7.2 | 7 |
| 83 | Overcoming Challenges in Using Microchip Electrophoresis for Extended Monitoring Applications 2013 , 177-200 | | 1 |
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2 Point-of-Need Disposable ELISA System for COVID-19 Serology Testing

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