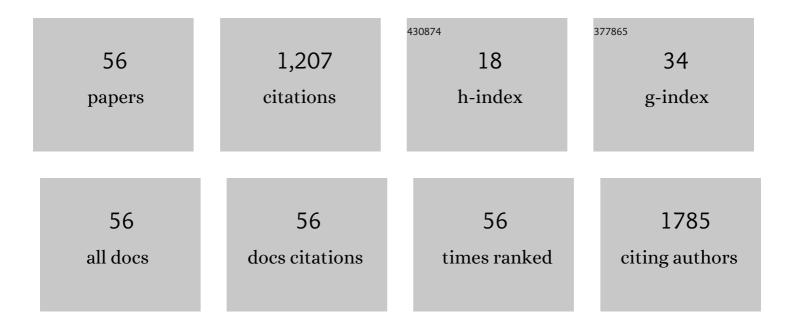
## **Charles B Parker**

List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Design considerations for a cycloidal mass analyzer using a focal plane array detector. Journal of<br>Mass Spectrometry, 2022, 57, .   | 1.6  | 1         |
| 2  | 4D Printing of Stretchable Supercapacitors via Hybrid Composite Materials. Advanced Materials<br>Technologies, 2021, 6, .  | 5.8  | 30        |
| 3  | The Long Neglected Cycloidal Mass Analyzer. Analytical Chemistry, 2021, 93, 11357-11363.   | 6.5  | 3         |
| 4  | Model-free capacitance analysis of electrodes with a 2D+1D dispersion of time constants.<br>Electrochimica Acta, 2021, 390, 138796.  | 5.2  | 1         |
| 5  | Virtual-slit focusing in a cycloidal mass spectrometer – A proof of concept. International Journal of<br>Mass Spectrometry, 2021, 470, 116706.   | 1.5  | 2         |
| 6  | Improving the Performance of a Cycloidal Coded-Aperture Miniature Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2021, 32, 509-518.   | 2.8  | 5         |
| 7  | Comparison of thermionic filament and carbon nanotube field emitter-based electron ionization sources in cycloidal coded aperture mass analyzers. International Journal of Mass Spectrometry, 2020, 457, 116415. | 1.5  | 5         |
| 8  | A novel sector mass spectrograph design for high-order coded aperture Mass Spectrometry with stigmatic aberration correction. International Journal of Mass Spectrometry, 2020, 455, 116374.                     | 1.5  | 0         |
| 9  | Robust and High-Performance Electrodes via Crumpled Au-CNT Forests for Stretchable<br>Supercapacitors. Matter, 2020, 2, 1307-1323.   | 10.0 | 26        |
| 10 | Transparent MXene-Polymer Supercapacitive Film Deposited Using RIR-MAPLE. Crystals, 2020, 10, 152.   | 2.2  | 13        |
| 11 | High current density electron emission from an electrodeposited metal nanowire array. Journal of<br>Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 043204.                       | 1.2  | 1         |
| 12 | Ti <sub>3</sub> C <sub>2</sub> T <sub><i>x</i></sub> MXene-Reduced Graphene Oxide Composite<br>Electrodes for Stretchable Supercapacitors. ACS Nano, 2020, 14, 3576-3586.  | 14.6 | 277       |
| 13 | Carbon Nanotubes: Highly Stretchable Supercapacitors via Crumpled Vertically Aligned Carbon<br>Nanotube Forests (Adv. Energy Mater. 22/2019). Advanced Energy Materials, 2019, 9, 1970082.                       | 19.5 | 4         |
| 14 | Highly Stretchable Supercapacitors via Crumpled Vertically Aligned Carbon Nanotube Forests.<br>Advanced Energy Materials, 2019, 9, 1900618.  | 19.5 | 74        |
| 15 | Reduction in energy for electrochemical disinfection of E. coli in urine simulant. Journal of Applied Electrochemistry, 2019, 49, 443-453.   | 2.9  | 17        |
| 16 | Efficient and Stable Pt/TiO <sub>2</sub> /CdS/Cu <sub>2</sub> BaSn(S,Se) <sub>4</sub> Photocathode<br>for Water Electrolysis Applications. ACS Energy Letters, 2018, 3, 177-183.                                 | 17.4 | 75        |
| 17 | Improved blackwater disinfection using potentiodynamic methods with oxidized boron-doped diamond electrodes. Water Research, 2018, 140, 191-199.   | 11.3 | 22        |
| 18 | Effects of Magnetic and Electric Field Uniformity on Coded Aperture Imaging Quality in a Cycloidal<br>Mass Analyzer. Journal of the American Society for Mass Spectrometry, 2018, 29, 352-359.                   | 2.8  | 4         |

CHARLES B PARKER

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|----|---|------|-----------|
| 19 | Proof of Concept Coded Aperture Miniature Mass Spectrometer Using a Cycloidal Sector Mass<br>Analyzer, a Carbon Nanotube (CNT) Field Emission Electron Ionization Source, and an Array Detector.<br>Journal of the American Society for Mass Spectrometry, 2018, 29, 360-372.   | 2.8  | 12        |
| 20 | Integrated Flexible Conversion Circuit between a Flexible Photovoltaic and Supercapacitors for Powering Wearable Sensors. Journal of the Electrochemical Society, 2018, 165, B3122-B3129.   | 2.9  | 23        |
| 21 | Enhanced H <sub>2</sub> O <sub>2</sub> Production at Reductive Potentials from Oxidized<br>Boron-Doped Ultrananocrystalline Diamond Electrodes. ACS Applied Materials & Interfaces, 2017,<br>9, 16610-16619.  | 8.0  | 35        |
| 22 | Coded Apertures in Mass Spectrometry. Annual Review of Analytical Chemistry, 2017, 10, 141-156.   | 5.4  | 8         |
| 23 | Integrating carbon nanotube forests into polysilicon MEMS: Growth kinetics, mechanisms, and adhesion. Carbon, 2017, 113, 192-204.   | 10.3 | 13        |
| 24 | A miniature electron ionization source fabricated using microelectromechanical systems (MEMS)<br>with integrated carbon nanotube (CNT) field emission cathodes and low-temperature co-fired<br>ceramics (LTCC). International Journal of Mass Spectrometry, 2017, 422, 162-169. | 1.5  | 14        |
| 25 | Improved Performance of Field Emission Vacuum Microelectronic Devices for Integrated Circuits. IEEE<br>Transactions on Electron Devices, 2016, 63, 3753-3760.   | 3.0  | 16        |
| 26 | Compatibility of Spatially Coded Apertures with a Miniature Mattauch-Herzog Mass Spectrograph.<br>Journal of the American Society for Mass Spectrometry, 2016, 27, 578-584.   | 2.8  | 13        |
| 27 | Role of nanocrystalline domain size on the electrochemical double-layer capacitance of high edge density carbon nanostructures. MRS Communications, 2015, 5, 285-290.   | 1.8  | 6         |
| 28 | Diamond for Biosensing: Electrochemical Detection of NOx Species with Thiol-Amine Functionalized Diamond. Journal of the Electrochemical Society, 2015, 162, B225-B229.   | 2.9  | 5         |
| 29 | Achieving Excellence in Graduate Research: A Guide for New Graduate Students. Advanced Science, 2015, 2, 1500203.   | 11.2 | 2         |
| 30 | Eliminating proximity effects and improving transmission in field emission vacuum microelectronic devices for integrated circuits. , 2015, , .  |      | 0         |
| 31 | Chemical Ionization Mass Spectrometry Using Carbon Nanotube Field Emission Electron Sources.<br>Journal of the American Society for Mass Spectrometry, 2015, 26, 1903-1910.   | 2.8  | 13        |
| 32 | Optimization of Active Manganese Oxide Electrodeposits Using Graphenated Carbon Nanotube<br>Electrodes for Supercapacitors. Chemistry of Materials, 2015, 27, 2430-2438.  | 6.7  | 40        |
| 33 | Protocol for High-Sensitivity Surface Area Measurements of Nanostructured Films Enabled by Atomic<br>Layer Deposition of TiO <sub>2</sub> . Journal of Physical Chemistry C, 2015, 119, 26119-26127.  | 3.1  | 8         |
| 34 | Order of Magnitude Signal Gain in Magnetic Sector Mass Spectrometry Via Aperture Coding. Journal of the American Society for Mass Spectrometry, 2015, 26, 1633-1640.  | 2.8  | 21        |
| 35 | Disinfection of <i>E. Coli</i> Contaminated Urine Using Boron-Doped Diamond Electrodes. Journal of the Electrochemical Society, 2014, 161, G81-G85.   | 2.9  | 17        |
| 36 | Perspectives on the Growth of High Edge Density Carbon Nanostructures: Transitions from Vertically<br>Oriented Graphene Nanosheets to Graphenated Carbon Nanotubes. Journal of Physical Chemistry C,<br>2014, 118, 16126-16132.   | 3.1  | 15        |

CHARLES B PARKER

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|----|---|------|-----------|
| 37 | Enhanced electron transfer kinetics through hybrid graphene-carbon nanotube films.<br>Electrochemistry Communications, 2014, 48, 103-106.   | 4.7  | 29        |
| 38 | Diamond surface functionalization with biomimicry – Amine surface tether and thiol moiety for electrochemical sensors. Applied Surface Science, 2014, 301, 293-299.                       | 6.1  | 6         |
| 39 | Modeling Operational Modes of a Bipolar Vacuum Microelectronic Device. IEEE Electron Device<br>Letters, 2012, 33, 1498-1500.  | 3.9  | 0         |
| 40 | Three-dimensional arrays of graphenated carbon nanotubes. Journal of Materials Research, 2012, 27,<br>1046-1053.  | 2.6  | 67        |
| 41 | Electrochemical Charge Storage Properties of Vertically Aligned Carbon Nanotube Films: Effects of<br>Thermal Oxidation. Journal of Physical Chemistry C, 2012, 116, 19526-19534.          | 3.1  | 4         |
| 42 | Effect of porosity variation on the electrochemical behavior of vertically aligned multi-walled carbon nanotubes. Electrochemistry Communications, 2012, 19, 138-141.                     | 4.7  | 19        |
| 43 | Carbon Nanotube Electron Ionization Source for Portable Mass Spectrometry. Analytical Chemistry, 2011, 83, 6527-6531.   | 6.5  | 7         |
| 44 | Graphenated carbon nanotubes for enhanced electrochemical double layer capacitor performance.<br>Applied Physics Letters, 2011, 99, 183104.   | 3.3  | 49        |
| 45 | A Bipolar Vacuum Microelectronic Device. IEEE Transactions on Electron Devices, 2011, 58, 3189-3194.  | 3.0  | 4         |
| 46 | Growth of vertically aligned bamboo-like carbon nanotubes from ammonia/methane precursors using a platinum catalyst. Carbon, 2011, 49, 266-274.   | 10.3 | 43        |
| 47 | Electrochemical Charge Storage Properties of Vertically Aligned Carbon Nanotube Films: The<br>Activation-Enhanced Length Effect. Journal of the Electrochemical Society, 2011, 158, K217. | 2.9  | 3         |
| 48 | A method to obtain a Ragone plot for evaluation of carbon nanotube supercapacitor electrodes.<br>Journal of Materials Research, 2010, 25, 1500-1506.                                      | 2.6  | 35        |
| 49 | Analysis of 3-panel and 4-panel microscale ionization sources. Journal of Applied Physics, 2010, 107, .   | 2.5  | 7         |
| 50 | Simulation and testing of a lateral, microfabricated electron-impact ion source. Applied Physics<br>Letters, 2009, 94, 044109.  | 3.3  | 5         |
| 51 | High voltage MEMS platform for fully integrated, on-chip, vacuum electronic devices. , 2008, , .  |      | 3         |
| 52 | Measurement of reactive and condensable gas permeation using a mass spectrometer. Journal of<br>Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 1128-1137.         | 2.1  | 18        |
| 53 | High voltage microelectromechanical systems platform for fully integrated, on-chip, vacuum<br>electronic devices. Applied Physics Letters, 2008, 92, 224101.                              | 3.3  | 12        |
| 54 | High sensitivity permeation measurement system for "ultrabarrier―thin films. Journal of Vacuum<br>Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1587-1593.              | 2.1  | 10        |

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|----|---|-----|-----------|
| 55 | A Novel Ion Source and Detector for a Miniature Mass Spectrometer. , 2007, , .                                      |     | 4         |
| 56 | On-chip electron-impact ion source using carbon nanotube field emitters. Applied Physics Letters, 2007, 90, 124102. | 3.3 | 61        |