# Andres W Martinez

## List of Publications by Citations



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|---|---|---|---|
| 29 papers | 9,967 citations | 19 h-index | 30 g-index |
| 30 ext. papers | 10,799 ext. citations | 6.2 avg, IF | 6.29 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 29 | Patterned paper as a platform for inexpensive, low-volume, portable bioassays. *Angewandte Chemie - International Edition*, **2007**, 46, 1318-20 | 16.4 | 2111 |
| 28 | Diagnostics for the developing world: microfluidic paper-based analytical devices. *Analytical Chemistry*, **2010**, 82, 3-10 | 7.8 | 1986 |
| 27 | Understanding wax printing: a simple micropatterning process for paper-based microfluidics. *Analytical Chemistry*, **2009**, 81, 7091-5 | 7.8 | 1170 |
| 26 | Simple telemedicine for developing regions: camera phones and paper-based microfluidic devices for real-time, off-site diagnosis. *Analytical Chemistry*, **2008**, 80, 3699-707 | 7.8 | 1152 |
| 25 | Three-dimensional microfluidic devices fabricated in layered paper and tape. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19606-11 | 11.5 | 986 |
| 24 | Electrochemical sensing in paper-based microfluidic devices. *Lab on A Chip*, **2010**, 10, 477-83 | 7.2 | 752 |
| 23 | FLASH: a rapid method for prototyping paper-based microfluidic devices. *Lab on A Chip*, **2008**, 8, 2146-50 | 7.2 | 557 |
| 22 | Paper microzone plates. *Analytical Chemistry*, **2009**, 81, 5990-8 | 7.8 | 316 |
| 21 | Programmable diagnostic devices made from paper and tape. *Lab on A Chip*, **2010**, 10, 2499-504 | 7.2 | 292 |
| 20 | Fully enclosed microfluidic paper-based analytical devices. *Analytical Chemistry*, **2012**, 84, 1579-85 | 7.8 | 168 |
| 19 | Two-ply channels for faster wicking in paper-based microfluidic devices. *Lab on A Chip*, **2015**, 15, 4461-6 | 7.2 | 87 |
| 18 | Paper-based microfluidics: Simplified fabrication and assay methods. *Sensors and Actuators B: Chemical*, **2021**, 336, 129681 | 8.5 | 63 |
| 17 | Fabrication of Miniaturized Paper-Based Microfluidic Devices (MicroPADs). *Scientific Reports*, **2019**, 9, 7 | 4.9 | 56 |
| 16 | Paper and toner three-dimensional fluidic devices: programming fluid flow to improve point-of-care diagnostics. *Lab on A Chip*, **2013**, 13, 628-31 | 7.2 | 54 |
| 15 | Reagent pencils: a new technique for solvent-free deposition of reagents onto paper-based microfluidic devices. *Lab on A Chip*, **2015**, 15, 2213-20 | 7.2 | 40 |
| 14 | Cofabrication of Electromagnets and Microfluidic Systems in Poly(dimethylsiloxane). *Angewandte Chemie*, **2006**, 118, 7031-7036 | 3.6 | 35 |
| 13 | Paper-based standard addition assays. *Analytical Methods*, **2014**, 6, 1296-1300 | 3.2 | 34 |

# List of Publications

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|---|---|---|---|
| 12 | Using Paper-Based Diagnostics with High School Students To Model Forensic Investigation and Colorimetric Analysis. *Journal of Chemical Education*, **2014**, 91, 107-111 | 2.4 | 34 |
| 11 | Paper Microzone Plates as Analytical Tools for Studying Enzyme Stability: A Case Study on the Stabilization of Horseradish Peroxidase Using Trehalose and SU-8 Epoxy Novolac Resin. *Analytical Chemistry*, **2017**, 89, 5333-5341 | 7.8 | 20 |
| 10 | Paper miniaturization via periodate oxidation of cellulose. *Cellulose*, **2018**, 25, 3211-3217 | 5.5 | 15 |
| 9 | Wax-Printed Fluidic Time Delays for Automating Multi-Step Assays in Paper-Based Microfluidic Devices (MicroPADs). *Inventions*, **2019**, 4, 20 | 2.9 | 10 |
| 8 | Poly(N-isopropylacrylamide) Hydrogels for Storage and Delivery of Reagents to Paper-Based Analytical Devices. *Chromatography (Basel)*, **2015**, 2, 436-451 | | 9 |
| 7 | Micro-staining microbes: An alternative to traditional staining of microbiological specimens using microliter volumes of reagents. *Journal of Microbiological Methods*, **2019**, 164, 105654 | 2.8 | 5 |
| 6 | Characterization of Reagent Pencils for Deposition of Reagents onto Paper-Based Microfluidic Devices. *Micromachines*, **2017**, 8, | 3.3 | 5 |
| 5 | At-Home Microscale Paper-Based Quantitative Analysis Activity with External Standards. *Journal of Chemical Education*, | 2.4 | 3 |
| 4 | How To Shrink Paper Money: A Macroscopic Demonstration of the Malaprade Reaction. *Journal of Chemical Education*, **2019**, 96, 1199-1204 | 2.4 | 2 |
| 3 | Chronometric Quantitation of Analytes in Paper-Based Microfluidic Devices (MicroPADs) via Enzymatic Degradation of a Metastable Biomatrix. *Inventions*, **2019**, 4, 48 | 2.9 | 1 |
| 2 | Evaluation of commercially-available conductive filaments for 3D printing flexible circuits on paper4, e21 | | 1 |
| 1 | Paper-Based Methods **2018**, 129-129 | | |