

Adam T. Woolley Publications List

144. Uprety, B.; Jensen, J.K.; Aryal, B.; Davis, R.C.; Woolley, A.T.; Harb, J.N. Directional Growth of DNA-functionalized Nanorods to Enable Continuous, Site-specific Metallization of DNA Origami Templates. *Langmuir* in press (2017).
143. Sahore, V.; Sonker, M.; Nielsen, A.V.; Knob, R.; Kumar, S.; Woolley, A.T. Automated Microfluidic Devices Integrating Solid-Phase Extraction, Fluorescent Labeling and Microchip Electrophoresis for Preterm Birth Biomarker Analysis. *Anal. Bioanal. Chem.* in press (2018).
142. Sonker, M.; Sahore, V.; Woolley, A.T. Recent Advances in Microfluidic Sample Preparation and Separation Techniques for Molecular Biomarker Analysis: A Critical Review. *Anal. Chim. Acta* **986**, 1-11 (2017).
141. Gong, H.; Bickham, B.P.; Woolley, A.T.; Nordin, G.P. Custom 3D Printer and Resin for 18 μm \times 20 μm Microfluidic Flow Channels. *Lab Chip* **17**, 2899-2909 (2017).
140. Knob, R.; Nelson, D.B.; Robison, R.A.; Woolley, A.T. Sequence-Specific DNA Solid-Phase Extraction in an On-Chip Monolith: Towards Detection of Antibiotic Resistance Genes. *J. Chromatogr. A* in press (2017).
139. Beauchamp, M.J.; Nordin, G.P.; Woolley, A.T. Moving From Millifluidic to Truly Microfluidic Sub 100 μm Cross-Section 3D Printed Devices. *Anal. Bioanal. Chem.* **409**, 4311-4319 (2017).
138. Sonker, M.; Knob, R.; Sahore, V.; Woolley, A.T. Integrated Electrokinetically Driven Microfluidic Devices with pH-Mediated Solid-Phase Extraction Coupled to Microchip Electrophoresis for Preterm Birth Biomarkers. *Electrophoresis* **38**, 1743-1754 (2017).
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135. Gong, H.; Woolley, A.T.; Nordin, G.P. High Density 3D Printed Microfluidic Valves, Pumps, and Multiplexers. *Lab Chip* **16**, 2450-2458 (2016).
134. Knob, R.; Sahore, V.; Sonker, M.; Woolley, A.T. Advances in Monoliths and Related Porous Materials for Microfluidics. *Biomicrofluidics* **10**, 032901 (2016).
133. Kumar, S.; Sahore, V.; Rogers, C.I.; Woolley, A.T. Development of an Integrated Microfluidic Solid-phase Extraction and Electrophoresis Device. *Analyst* **141**, 1660-1668 (2016).
132. Gong, H.; Beauchamp, M.; Perry, S.; Woolley, A.T.; Nordin, G.P. Optical Approach to Resin Formulation for 3D Printed Microfluidics. *RSC Advances* **5**, 106621-106632 (2015).
131. Sahore, V.; Kumar, S.; Rogers, C.I.; Sonker, M.; Jensen, J.K.; Woolley, A.T. Pressure-Actuated Microfluidic Devices for Electrophoretic Separation of Pre-Term Birth Biomarkers. *Anal. Bioanal. Chem.* **408**, 599-607 (2016).
130. Woolley, A.T. Spotlight on Emerging MicroRNA Analysis Methods. *Anal. Bioanal. Chem.* **407**, 6579-6581 (2015).
129. Pagaduan, J.V.; Sahore, V.; Woolley, A.T. Applications of Microfluidics and Microchip Electrophoresis for Potential Clinical Biomarker Analysis. *Anal. Bioanal. Chem.* **407**, 6911-6922 (2015).

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