

# R Scott Martin

## List of Publications by Year in descending order

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81  
papers

4,016  
citations

126708

33  
h-index

118652

62  
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82  
all docs

82  
docs citations

82  
times ranked

3337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation and optimization of PolyJet 3D-printed materials for cell culture studies. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3329-3339.	1.9	11
2	PolyJet-Based 3D Printing against Micromolds to Produce Channel Structures for Microchip Electrophoresis. <i>ACS Omega</i> , 2022, 7, 13362-13370.	1.6	4
3	3D printed devices with integrated collagen scaffolds for cell culture studies including transepithelial/transendothelial electrical resistance (TEER) measurements. <i>Analytica Chimica Acta</i> , 2022, 1221, 340166.	2.6	1
4	A Hybrid Nanofiber/Paper Cell Culture Platform for Building a 3D Blood-Brain Barrier Model. <i>Small Methods</i> , 2021, 5, 2100592.	4.6	9
5	Fully 3D printed fluidic devices with integrated valves and pumps for flow injection analysis. <i>Analytical Methods</i> , 2021, 13, 5017-5024.	1.3	10
6	3D-printed microfluidic device with in-line amperometric detection that also enables multi-modal detection. <i>Analytical Methods</i> , 2020, 12, 2046-2051.	1.3	8
7	Direct embedding and versatile placement of electrodes in 3D printed microfluidic-devices. <i>Analyst</i> , 2020, 145, 3274-3282.	1.7	15
8	Review of 3D cell culture with analysis in microfluidic systems. <i>Analytical Methods</i> , 2019, 11, 4220-4232.	1.3	86
9	Integrating 3D cell culture of PC12 cells with microchip-based electrochemical detection. <i>Analytical Methods</i> , 2019, 11, 1064-1072.	1.3	16
10	Microfluidic Device Using a Gold Pillar Array and Integrated Electrodes for On-chip Endothelial Cell Immobilization, Direct RBC Contact, and Amperometric Detection of Nitric Oxide. <i>Electroanalysis</i> , 2019, 31, 1409-1415.	1.5	6
11	PolyJet 3D-Printed Enclosed Microfluidic Channels without Photocurable Supports. <i>Analytical Chemistry</i> , 2019, 91, 6910-6917.	3.2	67
12	Insert-based microfluidics for 3D cell culture with analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3025-3035.	1.9	40
13	Enhanced microchip electrophoresis separations combined with electrochemical detection utilizing a capillary embedded in polystyrene. <i>Analytical Methods</i> , 2018, 10, 37-45.	1.3	6
14	The Use of a 3D-Printed Microfluidic Device and Pressure Mobilization for Integrating Capillary Electrophoresis with Electrochemical Detection. <i>Electroanalysis</i> , 2018, 30, 2241-2249.	1.5	13
15	Use of 3D printing and modular microfluidics to integrate cell culture, injections and electrochemical analysis. <i>Analytical Methods</i> , 2018, 10, 3364-3374.	1.3	28
16	In celebration of the 60th birthday of 2 microfluidics pioneers: Professor Susan Lunte and Professor James Landers. <i>Analytical Methods</i> , 2018, 10, 3433-3435.	1.3	1
17	Microchip-based 3D-cell culture using polymer nanofibers generated by solution blow spinning. <i>Analytical Methods</i> , 2017, 9, 3274-3283.	1.3	20
18	A review of electrospinning manipulation techniques to direct fiber deposition and maximize pore size. <i>Electrospinning</i> , 2017, 2, 46-61.	1.6	54

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19	Use of electrospinning and dynamic air focusing to create three-dimensional cell culture scaffolds in microfluidic devices. <i>Analyst, The</i> , 2016, 141, 5311-5320.	1.7	36
20	Simultaneous analysis of vascular norepinephrine and ATP release using an integrated microfluidic system. <i>Journal of Neuroscience Methods</i> , 2016, 266, 68-77.	1.3	7
21	Integrated electrodes and electrospray emitter for polymer microfluidic nanospray-MS interface. <i>Analytical Methods</i> , 2016, 8, 5152-5157.	1.3	4
22	3D-printed microfluidic devices: fabrication, advantages and limitations—a mini review. <i>Analytical Methods</i> , 2016, 8, 6005-6012.	1.3	212
23	Microchip-based electrochemical detection using a 3-D printed wall-jet electrode device. <i>Analyst, The</i> , 2016, 141, 862-869.	1.7	48
24	Role of Surface Adsorption in the Surface-Enhanced Raman Scattering and Electrochemical Detection of Neurotransmitters. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20624-20633.	1.5	27
25	Sheath-Flow Microfluidic Approach for Combined Surface Enhanced Raman Scattering and Electrochemical Detection. <i>Analytical Chemistry</i> , 2015, 87, 4347-4355.	3.2	43
26	Fabrication and characterization of all-polystyrene microfluidic devices with integrated electrodes and tubing. <i>Analytical Methods</i> , 2015, 7, 2968-2976.	1.3	8
27	Periodic and complex waveform current oscillations of copper electrodisolution in phosphoric acid in an epoxy-based microchip flow cell. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 3241-3251.	1.2	5
28	Integrated hybrid polystyrene-polydimethylsiloxane device for monitoring cellular release with microchip electrophoresis and electrochemical detection. <i>Analytical Methods</i> , 2015, 7, 884-893.	1.3	22
29	Microfluidic device with tunable post arrays and integrated electrodes for studying cellular release. <i>Analyst, The</i> , 2014, 139, 5686-5694.	1.7	11
30	3D printed microfluidic devices with integrated versatile and reusable electrodes. <i>Lab on A Chip</i> , 2014, 14, 2023-2032.	3.1	248
31	Microchip-based electrochemical detection for monitoring cellular systems. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3013-3020.	1.9	25
32	Integration of multiple components in polystyrene-based microfluidic devices part I: fabrication and characterization. <i>Analyst, The</i> , 2013, 138, 129-136.	1.7	33
33	Encapsulation of fluidic tubing and microelectrodes in microfluidic devices: integrating off-chip process and coupling conventional capillary electrophoresis with electrochemical detection. <i>Analytical Methods</i> , 2013, 5, 4220.	1.3	11
34	Integration of multiple components in polystyrene-based microfluidic devices part II: cellular analysis. <i>Analyst, The</i> , 2013, 138, 137-143.	1.7	22
35	A 3D Printed Fluidic Device that Enables Integrated Features. <i>Analytical Chemistry</i> , 2013, 85, 5622-5626.	3.2	199
36	Encapsulated electrodes for microchip devices: Microarrays and platinized electrodes for signal enhancement. <i>Electrophoresis</i> , 2013, 34, 2092-2100.	1.3	24

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37	Use of microchip electrophoresis and a palladium/mercury amalgam electrode for the separation and detection of thiols. <i>Analytical Methods</i> , 2011, 3, 1072.	1.3	12
38	Use of a Corona Discharge to Selectively Pattern a Hydrophilic/Hydrophobic Interface for Integrating Segmented Flow with Microchip Electrophoresis and Electrochemical Detection. <i>Analytical Chemistry</i> , 2011, 83, 5996-6003.	3.2	26
39	Microfluidic Transendothelial Electrical Resistance Measurement Device that Enables Blood Flow and Postgrowth Experiments. <i>Analytical Chemistry</i> , 2011, 83, 4296-4301.	3.2	49
40	Electrochemical oscillations of nickel electrodisolution in an epoxy-based microchip flow cell. <i>Journal of Electroanalytical Chemistry</i> , 2011, 659, 92-100.	1.9	24
41	Use of epoxy-embedded electrodes to integrate electrochemical detection with microchip-based analysis systems. <i>Electrophoresis</i> , 2011, 32, 822-831.	1.3	27
42	Integration of microchip electrophoresis with electrochemical detection using an epoxy-based molding method to embed multiple electrode materials. <i>Electrophoresis</i> , 2011, 32, 3121-3128.	1.3	23
43	Use of a Carbon Ink Microelectrode Array for Signal Enhancement in Microchip Electrophoresis with Electrochemical Detection. <i>Electroanalysis</i> , 2010, 22, 2141-2146.	1.5	12
44	Integration of on-chip peristaltic pumps and injection valves with microchip electrophoresis and electrochemical detection. <i>Electrophoresis</i> , 2010, 31, 2534-2540.	1.3	48
45	Use of recordable compact discs to fabricate electrodes for microchip-based analysis systems. <i>Analytical Methods</i> , 2010, 2, 811.	1.3	17
46	Integration of serpentine channels for microchip electrophoresis with a palladium decoupler and electrochemical detection. <i>Electrophoresis</i> , 2009, 30, 3347-3354.	1.3	19
47	Synchronized current oscillations of formic acid electro-oxidation in a microchip-based dual-electrode flow cell. <i>Electrochimica Acta</i> , 2009, 55, 395-403.	2.6	19
48	A microchip-based endothelium mimic utilizing open reservoirs for cell immobilization and integrated carbon ink microelectrodes for detection. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 599-605.	1.9	22
49	Selective detection of endogenous thiols using microchip-based flow analysis and mercury/gold amalgam microelectrodes. <i>Analyst</i> , The, 2009, 134, 372-379.	1.7	21
50	Microchip-based integration of cell immobilization, electrophoresis, post-column derivatization, and fluorescence detection for monitoring the release of dopamine from PC 12 cells. <i>Analyst</i> , The, 2008, 133, 1358.	1.7	25
51	Integration of Microdialysis Sampling and Microchip Electrophoresis with Electrochemical Detection. <i>Analytical Chemistry</i> , 2008, 80, 9257-9264.	3.2	70
52	Chemical Imaging of Pharmaceutical Materials: Fabrication of Micropatterned Resolution Targets. <i>Analytical Chemistry</i> , 2008, 80, 5706-5712.	3.2	8
53	Coupling Microdialysis Sampling to Microchip Electrophoresis in a Reversibly Sealed Device. <i>Journal of the Association for Laboratory Automation</i> , 2007, 12, 296-302.	2.8	8
54	Development of an on-chip injector for microchip-based flow analyses using laminar flow. <i>Lab on A Chip</i> , 2007, 7, 1589.	3.1	13

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55	Fabrication and evaluation of a 3-dimensional microchip device where carbon microelectrodes individually address channels in the separate fluidic layers. <i>Analyst, The</i> , 2007, 132, 1246.	1.7	4
56	Addressing a vascular endothelium array with blood components using underlying microfluidic channels. <i>Lab on A Chip</i> , 2007, 7, 1256.	3.1	59
57	Integration of continuous-flow sampling with microchip electrophoresis using poly(dimethylsiloxane)-based valves in a reversibly sealed device. <i>Electrophoresis</i> , 2007, 28, 2478-2488.	1.3	28
58	Microfluidic technologies as platforms for performing quantitative cellular analyses in an in vitro environment. <i>Analyst, The</i> , 2006, 131, 1197.	1.7	49
59	Detecting thiols in a microchip device using micromolded carbon ink electrodes modified with cobalt phthalocyanine. <i>Analyst, The</i> , 2006, 131, 202-207.	1.7	33
60	Use of microchip-based hydrodynamic focusing to measure the deformation-induced release of ATP from erythrocytes. <i>Analyst, The</i> , 2006, 131, 930.	1.7	40
61	Design and Characterization of Poly(dimethylsiloxane)-Based Valves for Interfacing Continuous-Flow Sampling to Microchip Electrophoresis. <i>Analytical Chemistry</i> , 2006, 78, 1042-1051.	3.2	58
62	Monitoring erythrocytes in a microchip channel that narrows uniformly: Towards an improved microfluidic-based mimic of the microcirculation. <i>Journal of Chromatography A</i> , 2006, 1111, 220-227.	1.8	18
63	Use of micromolded carbon dual electrodes with a palladium decoupler for amperometric detection in microchip electrophoresis. <i>Electrophoresis</i> , 2006, 27, 5032-5042.	1.3	40
64	Interfacing Amperometric Detection With Microchip Capillary Electrophoresis. , 2006, 339, 85-112.		13
65	Integration of a carbon microelectrode with a microfabricated palladium decoupler for use in microchip capillary electrophoresis/ electrochemistry. <i>Electrophoresis</i> , 2005, 26, 202-210.	1.3	43
66	Microchip-based ethanol/oxygen biofuel cell. <i>Lab on A Chip</i> , 2005, 5, 218.	3.1	156
67	Rapid fabrication of poly(dimethylsiloxane)-based microchip capillary electrophoresis devices using CO <sub>2</sub> laser ablation. <i>Analyst, The</i> , 2005, 130, 924.	1.7	22
68	Amperometric determination of nitric oxide derived from pulmonary artery endothelial cells immobilized in a microchip channel. <i>Analyst, The</i> , 2004, 129, 995.	1.7	61
69	Deformation-Induced Release of ATP from Erythrocytes in a Poly(dimethylsiloxane)-Based Microchip with Channels That Mimic Resistance Vessels. <i>Analytical Chemistry</i> , 2004, 76, 4849-4855.	3.2	64
70	On-Line Coupling of Microdialysis Sampling with Microchip-Based Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2004, 76, 6440-6447.	3.2	73
71	Development of a Microfabricated Palladium Decoupler/Electrochemical Detector for Microchip Capillary Electrophoresis Using a Hybrid Glass/Poly(dimethylsiloxane) Device. <i>Analytical Chemistry</i> , 2004, 76, 2482-2491.	3.2	134
72	Fabrication of carbon microelectrodes with a micromolding technique and their use in microchip-based flow analyses. <i>Analyst, The</i> , 2004, 129, 400.	1.7	60

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73	Indirect Measurement of Nitric Oxide Production by Monitoring Nitrate and Nitrite Using Microchip Electrophoresis with Electrochemical Detection. <i>Analytical Chemistry</i> , 2002, 74, 6370-6377.	3.2	92
74	In-Channel Electrochemical Detection for Microchip Capillary Electrophoresis Using an Electrically Isolated Potentiostat. <i>Analytical Chemistry</i> , 2002, 74, 1136-1143.	3.2	180
75	Recent developments in amperometric detection for microchip capillary electrophoresis. <i>Electrophoresis</i> , 2002, 23, 3667-3677.	1.3	157
76	Ultrahigh Sensitivity Analysis of Amino Acids and Peptides by Capillary Liquid Chromatography with Electrochemical Detection. , 2002, , 52-82.		0
77	Carbon paste-based electrochemical detectors for microchip capillary electrophoresis/electrochemistry. <i>Analyst, The</i> , 2001, 126, 277-280.	1.7	120
78	Fabrication and evaluation of a carbon-based dual-electrode detector for poly(dimethylsiloxane) electrophoresis chips. <i>Electrophoresis</i> , 2001, 22, 242-248.	1.3	137
79	Microchip capillary electrophoresis/ electrochemistry. <i>Electrophoresis</i> , 2001, 22, 2526-2536.	1.3	239
80	Dual-Electrode Electrochemical Detection for Poly(dimethylsiloxane)-Fabricated Capillary Electrophoresis Microchips. <i>Analytical Chemistry</i> , 2000, 72, 3196-3202.	3.2	312
81	Microchip capillary electrophoresis/ electrochemistry. , 0, .		1