

# Emmanuel Delamarche

## List of Publications by Citations

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148  
papers

12,142  
citations

57  
h-index

109  
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154  
ext. papers

12,962  
ext. citations

8.9  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
148	Patterned delivery of immunoglobulins to surfaces using microfluidic networks. <i>Science</i> , <b>1997</b> , 276, 779-813	33.3	597
147	Printing Patterns of Proteins. <i>Langmuir</i> , <b>1998</b> , 14, 2225-2229	4	472
146	Surface Stress in the Self-Assembly of Alkanethiols on Gold. <i>Science</i> , <b>1997</b> , 276, 2021-2024	33.3	443
145	. <i>IBM Journal of Research and Development</i> , <b>2001</b> , 45, 697-719	2.5	399
144	Microfluidic Networks for Chemical Patterning of Substrates: Design and Application to Bioassays. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 500-508	16.4	351
143	Microfluidic chips for point-of-care immunodiagnostics. <i>Advanced Materials</i> , <b>2011</b> , 23, H151-76	24	349
142	Autonomous microfluidic capillary system. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 6139-44	7.8	327
141	Lab-on-a-chip devices: How to close and plug the lab?. <i>Microelectronic Engineering</i> , <b>2015</b> , 132, 156-175	2.5	326
140	Stability of molded polydimethylsiloxane microstructures. <i>Advanced Materials</i> , <b>1997</b> , 9, 741-746	24	300
139	Micromosaic immunoassays. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 8-12	7.8	295
138	Toward one-step point-of-care immunodiagnostics using capillary-driven microfluidics and PDMS substrates. <i>Lab on A Chip</i> , <b>2009</b> , 9, 3330-7	7.2	283
137	Controlled particle placement through convective and capillary assembly. <i>Langmuir</i> , <b>2007</b> , 23, 11513-21	4	282
136	Capillary pumps for autonomous capillary systems. <i>Lab on A Chip</i> , <b>2007</b> , 7, 119-25	7.2	276
135	Golden interfaces: The Surface of Self-Assembled Monolayers. <i>Advanced Materials</i> , <b>1996</b> , 8, 719-729	24	274
134	Real-Space Observation of Nanoscale Molecular Domains in Self-Assembled Monolayers. <i>Langmuir</i> , <b>1994</b> , 10, 2869-2871	4	251
133	Thermal Stability of Self-Assembled Monolayers. <i>Langmuir</i> , <b>1994</b> , 10, 4103-4108	4	235
132	Transport Mechanisms of Alkanethiols during Microcontact Printing on Gold. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 3324-3334	3.4	218

131	Microfluidics for Processing Surfaces and Miniaturizing Biological Assays. <i>Advanced Materials</i> , <b>2005</b> , 17, 2911-2933	24	208
130	Self-assembled microarrays of attoliter molecular vessels. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 5580-3	16.4	180
129	High-sensitivity miniaturized immunoassays for tumor necrosis factor alpha using microfluidic systems. <i>Lab on A Chip</i> , <b>2004</b> , 4, 563-9	7.2	178
128	Lithography beyond light: Microcontact printing with monolayer resists. <i>IBM Journal of Research and Development</i> , <b>1997</b> , 41, 159-170	2.5	173
127	Fabricating Arrays of Single Protein Molecules on Glass Using Microcontact Printing. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 703-711	3.4	168
126	Multipurpose microfluidic probe. <i>Nature Materials</i> , <b>2005</b> , 4, 622-8	27	163
125	Contact-Inking Stamps for Microcontact Printing of Alkanethiols on Gold. <i>Langmuir</i> , <b>1999</b> , 15, 300-304	4	162
124	Hydrophilic Poly(dimethylsiloxane) Stamps for Microcontact Printing. <i>Advanced Materials</i> , <b>2001</b> , 13, 1164-1167	4	161
123	Simultaneous detection of C-reactive protein and other cardiac markers in human plasma using micromosaic immunoassays and self-regulating microfluidic networks. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 19, 1193-202	11.8	159
122	Kelvin Probe Force Microscopy on Surfaces: Investigation of the Surface Potential of Self-Assembled Monolayers on Gold. <i>Langmuir</i> , <b>1999</b> , 15, 8184-8188	4	157
121	Immobilization of Antibodies on a Photoactive Self-Assembled Monolayer on Gold. <i>Langmuir</i> , <b>1996</b> , 12, 1997-2006	4	146
120	Microcontact Printing Using Poly(dimethylsiloxane) Stamps Hydrophilized by Poly(ethylene oxide) Silanes. <i>Langmuir</i> , <b>2003</b> , 19, 8749-8758	4	145
119	Microfluidic Networks Made of Poly(dimethylsiloxane), Si, and Au Coated with Polyethylene Glycol for Patterning Proteins onto Surfaces. <i>Langmuir</i> , <b>2001</b> , 17, 4090-4095	4	145
118	Order in Microcontact Printed Self-Assembled Monolayers. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 3017-3026	16.4	141
117	End-Group-Dominated Molecular Order in Self-Assembled Monolayers. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 7102-7107		130
116	Fabricating microarrays of functional proteins using affinity contact printing. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 2320-3	16.4	128
115	Modeling and optimization of high-sensitivity, low-volume microfluidic-based surface immunoassays. <i>Biomedical Microdevices</i> , <b>2005</b> , 7, 99-110	3.7	126
114	Preparation of Metallic Films on Elastomeric Stamps and Their Application for Contact Processing and Contact Printing. <i>Advanced Functional Materials</i> , <b>2003</b> , 13, 145-153	15.6	120

113	Fabrication of Metal Nanowires Using Microcontact Printing. <i>Langmuir</i> , <b>2003</b> , 19, 6301-6311	4	120
112	Structure of Hydrophilic Self-Assembled Monolayers: A Combined Scanning Tunneling Microscopy and Computer Simulation Study. <i>Langmuir</i> , <b>1994</b> , 10, 4116-4130	4	120
111	Valves for autonomous capillary systems. <i>Microfluidics and Nanofluidics</i> , <b>2008</b> , 5, 395-402	2.8	118
110	Affinity capture of proteins from solution and their dissociation by contact printing. <i>Nature Biotechnology</i> , <b>2001</b> , 19, 866-9	44.5	115
109	Facile preparation of complex protein architectures with sub-100-nm resolution on surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 6837-40	16.4	104
108	Stress at the Solid-Liquid Interface of Self-Assembled Monolayers on Gold Investigated with a Nanomechanical Sensor. <i>Langmuir</i> , <b>2000</b> , 16, 9694-9696	4	98
107	Nanopatterning reveals an ECM area threshold for focal adhesion assembly and force transmission that is regulated by integrin activation and cytoskeleton tension. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 5110-5123	5.3	94
106	Recognition of Individual Tail Groups in Self-Assembled Monolayers. <i>Langmuir</i> , <b>1995</b> , 11, 3876-3881	4	92
105	A vertical microfluidic probe. <i>Langmuir</i> , <b>2011</b> , 27, 5686-93	4	86
104	Domain and Molecular Superlattice Structure of Dodecanethiol Self-Assembled on Au(111). <i>Europhysics Letters</i> , <b>1994</b> , 27, 365-370	1.6	84
103	Microfluidics in the "open space" for performing localized chemistry on biological interfaces. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11224-40	16.4	82
102	Microcontact-Printing Chemical Patterns with Flat Stamps. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 6303-6304	16.4	80
101	Defect-Tolerant and Directional Wet-Etch Systems for Using Monolayers as Resists. <i>Langmuir</i> , <b>2002</b> , 18, 2374-2377	4	77
100	Self-Assembled Monolayers of Eicosanethiol on Palladium and Their Use in Microcontact Printing. <i>Langmuir</i> , <b>2002</b> , 18, 2406-2412	4	74
99	Patterned Electroless Deposition of Copper by Microcontact Printing Palladium(II) Complexes on Titanium-Covered Surfaces. <i>Langmuir</i> , <b>2000</b> , 16, 6367-6373	4	70
98	Continuous flow in open microfluidics using controlled evaporation. <i>Lab on A Chip</i> , <b>2005</b> , 5, 1355-9	7.2	69
97	Formation of Gradients of Proteins on Surfaces with Microfluidic Networks. <i>Langmuir</i> , <b>2000</b> , 16, 9125-9130	4	66
96	Reagents in microfluidics: an 'in' and 'out' challenge. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 8494-516	58.5	64

95	Capillary-driven multiparametric microfluidic chips for one-step immunoassays. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 27, 64-70	11.8	63
94	Surface stress in the self-assembly of alkanethiols on gold probed .by a force microscopy technique. <i>Applied Physics A: Materials Science and Processing</i> , <b>1998</b> , 66, S55-S59	2.6	63
93	Closing the Gap Between Self-Assembly and Microsystems Using Self-Assembly, Transfer, and Integration of Particles. <i>Advanced Materials</i> , <b>2005</b> , 17, 2438-2442	24	61
92	Positive microcontact printing. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 3834-5	16.4	57
91	Soft and rigid two-level microfluidic networks for patterning surfaces. <i>Journal of Micromechanics and Microengineering</i> , <b>2001</b> , 11, 532-541	2	56
90	Micro-immunohistochemistry using a microfluidic probe. <i>Lab on A Chip</i> , <b>2012</b> , 12, 1040-3	7.2	54
89	Diffusion of alkanethiols in PDMS and its implications on microcontact printing (muCP). <i>Langmuir</i> , <b>2005</b> , 21, 622-32	4	54
88	Electroless Deposition of Cu on Glass and Patterning with Microcontact Printing. <i>Langmuir</i> , <b>2003</b> , 19, 6567-6569	4	49
87	Structure and stability of self-assembled monolayers. <i>Thin Solid Films</i> , <b>1996</b> , 273, 54-60	2.2	48
86	Self-Assembled Microarrays of Attoliter Molecular Vessels. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 5738-5741	3.6	42
85	Capillary soft valves for microfluidics. <i>Lab on A Chip</i> , <b>2012</b> , 12, 1972-8	7.2	39
84	High-performance immunoassays based on through-stencil patterned antibodies and capillary systems. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 1763-9	7.8	39
83	Microcontact printing of proteins inside microstructures. <i>Langmuir</i> , <b>2005</b> , 21, 11296-303	4	39
82	Controlled release of reagents in capillary-driven microfluidics using reagent integrators. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2680-5	7.2	38
81	Self-coalescing flows in microfluidics for pulse-shaped delivery of reagents. <i>Nature</i> , <b>2019</b> , 574, 228-232	50.4	38
80	Electroless Deposition of NiB on 15 Inch Glass Substrates for the Fabrication of Transistor Gates for Liquid Crystal Displays. <i>Langmuir</i> , <b>2003</b> , 19, 5923-5935	4	37
79	Direct Patterning of NiB on Glass Substrates Using Microcontact Printing and Electroless Deposition. <i>Langmuir</i> , <b>2003</b> , 19, 6283-6296	4	37
78	Hierarchical hydrodynamic flow confinement: efficient use and retrieval of chemicals for microscale chemistry on surfaces. <i>Langmuir</i> , <b>2014</b> , 30, 3640-5	4	36

77	Autonomous capillary system for one-step immunoassays. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 1-8	3.7	36
76	Selective local lysis and sampling of live cells for nucleic acid analysis using a microfluidic probe. <i>Scientific Reports</i> , <b>2016</b> , 6, 29579	4.9	32
75	Mesenchymal stem cells from tumor microenvironment favour breast cancer stem cell proliferation, cancerogenic and metastatic potential, via ionotropic purinergic signalling. <i>Scientific Reports</i> , <b>2017</b> , 7, 13162	4.9	31
74	Transposing Lateral Flow Immunoassays to Capillary-Driven Microfluidics Using Self-Coalescence Modules and Capillary-Assembled Receptor Carriers. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 940-946	7.8	29
73	Printing Meets Lithography: Soft Approaches to High-Resolution Patterning. <i>Chimia</i> , <b>2002</b> , 56, 527-542	1.3	28
72	Surface potential studies of self-assembling monolayers using Kelvin probe force microscopy <b>1999</b> , 27, 368-373		28
71	Making Gold Nanostructures Using Self-Assembled Monolayers and a Scanning Tunneling Microscope. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 9263-9269	3.4	26
70	Sub-nanoliter, real-time flow monitoring in microfluidic chips using a portable device and smartphone. <i>Scientific Reports</i> , <b>2018</b> , 8, 10603	4.9	25
69	Multilayered microfluidic probe heads. <i>Journal of Micromechanics and Microengineering</i> , <b>2009</b> , 19, 115006		22
68	Overflow microfluidic networks: application to the biochemical analysis of brain cell interactions in complex neuroinflammatory scenarios. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 9833-40	7.8	21
67	Cellular microarrays for use with capillary-driven microfluidics. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 801-8	4.4	21
66	Chip-olate and dry-film resists for efficient fabrication, singulation and sealing of microfluidic chips. <i>Journal of Micromechanics and Microengineering</i> , <b>2014</b> , 24, 097001	2	19
65	Patterning NiB Electroless Deposited on Glass Using an Electroplated Cu Mask, Microcontact Printing, and Wet Etching. <i>Langmuir</i> , <b>2003</b> , 19, 5892-5897	4	19
64	Malaria and the 'last' parasite: how can technology help?. <i>Malaria Journal</i> , <b>2018</b> , 17, 260	3.6	18
63	Overflow microfluidic networks for open and closed cell cultures on chip. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3936-42	7.8	18
62	Electro-actuated valves and self-vented channels enable programmable flow control and monitoring in capillary-driven microfluidics. <i>Science Advances</i> , <b>2020</b> , 6, eaay8305	14.3	17
61	Fabricating Microarrays of Functional Proteins Using Affinity Contact Printing. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 2426-2429	3.6	16
60	A compact and versatile microfluidic probe for local processing of tissue sections and biological specimens. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 034301	1.7	15

59	A microfluidic device for depositing and addressing two cell populations with intercellular population communication capability. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 275-82	3.7	15
58	Screening cell surface receptors using micromosaic immunoassays. <i>Biomedical Microdevices</i> , <b>2007</b> , 9, 135-41	3.7	15
57	Controlled deposition of cells in sealed microfluidics using flow velocity boundaries. <i>Lab on A Chip</i> , <b>2009</b> , 9, 1395-402	7.2	14
56	Facile Preparation of Complex Protein Architectures with Sub-100-nm Resolution on Surfaces. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 6961-6964	3.6	14
55	Selective wet-etching of microcontact-printed Cu substrates with control over the etch profile. <i>Microelectronic Engineering</i> , <b>2003</b> , 67-68, 326-332	2.5	14
54	Electrogates for stop-and-go control of liquid flow in microfluidics. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 153701	3.4	13
53	Flock-based microfluidics. <i>Advanced Materials</i> , <b>2013</b> , 25, 2672-6	24	13
52	High-Content Optical Codes for Protecting Rapid Diagnostic Tests from Counterfeiting. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 7383-7390	7.8	12
51	Protein tethering into multiscale geometries by covalent subtractive printing. <i>Advanced Materials</i> , <b>2011</b> , 23, 1550-3	24	12
50	Large-scale arrays of aligned single viruses. <i>Advanced Materials</i> , <b>2010</b> , 22, 111-4	24	11
49	A bead-based immunogold-silver staining assay on capillary-driven microfluidics. <i>Biomedical Microdevices</i> , <b>2018</b> , 20, 41	3.7	11
48	Crypto anchors. <i>IBM Journal of Research and Development</i> , <b>2019</b> , 63, 4:1-4:12	2.5	10
47	Advanced Capillary Soft Valves for Flow Control in Self-Driven Microfluidics. <i>Micromachines</i> , <b>2013</b> , 4, 1-8	3.3	10
46	Pharmacology on microfluidics: multimodal analysis for studying cell-cell interaction. <i>Current Opinion in Pharmacology</i> , <b>2013</b> , 13, 821-8	5.1	9
45	Immuno-gold silver staining assays on capillary-driven microfluidics for the detection of malaria antigens. <i>Biomedical Microdevices</i> , <b>2019</b> , 21, 24	3.7	8
44	High-grade optical polydimethylsiloxane for microfluidic applications. <i>Biomedical Microdevices</i> , <b>2011</b> , 13, 1027-32	3.7	8
43	Nanodiagnostics to Face SARS-CoV-2 and Future Pandemics: From an Idea to the Market and Beyond. <i>ACS Nano</i> , <b>2021</b> ,	16.7	8
42	The floating microfluidic probe: Distance control between probe and sample using hydrodynamic levitation. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 263501	3.4	6

41	Microcontact Processing for Microtechnology and Biology. <i>Chimia</i> , <b>2007</b> , 61, 126-132	1.3	6
40	Dielectrophoretic microbead sorting using modular electrode design and capillary-driven microfluidics. <i>Biomedical Microdevices</i> , <b>2017</b> , 19, 95	3.7	5
39	Capillary-driven microfluidic chips with evaporation-induced flow control and dielectrophoretic microbead trapping. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , <b>2014</b> , 13, 033018	0.7	5
38	Mikrofluidik im Offenen Raum – lokalisierte Prozesse an biologischen Oberflächen. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11386-11403	3.6	5
37	Complex Nucleic Acid Hybridization Reactions inside Capillary-Driven Microfluidic Chips. <i>Small</i> , <b>2020</b> , 16, e2005476	11	5
36	Chemiluminescence generation and detection in a capillary-driven microfluidic chip <b>2017</b> ,		4
35	Arraying single microbeads in microchannels using dielectrophoresis-assisted mechanical traps. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 204102	3.4	4
34	Heterogeneous integration of gels into microfluidics using a mesh carrier. <i>Biomedical Microdevices</i> , <b>2014</b> , 16, 829-35	3.7	4
33	Microfluidic Diagnostic Devices: Microfluidic Chips for Point-of-Care Immunodiagnosics (Adv. Mater. 24/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, H208-H208	24	4
32	Capillary Microfluidics for Monitoring Medication Adherence. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 17784-17796	16.4	4
31	Methods for immobilizing receptors in microfluidic devices: A review. <i>Micro and Nano Engineering</i> , <b>2021</b> , 11, 100085	3.4	4
30	Precision Diagnostics for Mobile Health Using Capillary-driven Microfluidics. <i>Chimia</i> , <b>2017</b> , 71, 385	1.3	3
29	Two complementary methods to characterize long range proximity effects due to develop loading <b>2010</b> ,		3
28	Microfluidic Capillary Systems for The Autonomous Transport of Bio/Chemicals <b>2002</b> , 952-954		3
27	Programmable hydraulic resistor for microfluidic chips using electrogate arrays. <i>Scientific Reports</i> , <b>2019</b> , 9, 17242	4.9	3
26	Rapid quantitative assays for glucose-6-phosphate dehydrogenase (G6PD) and hemoglobin combined on a capillary-driven microfluidic chip. <i>Lab on A Chip</i> , <b>2021</b> , 21, 3573-3582	7.2	3
25	Biopatterning: The Art of Patterning Biomolecules on Surfaces. <i>Langmuir</i> , <b>2021</b> , 37, 9637-9651	4	3
24	Microscale Interfacial Polymerization on a Chip. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 24064-24069	16.4	3



23	Capillary-driven microfluidic chips with evaporation-induced flow control and dielectrophoretic microbead trapping <b>2014</b> ,		2
22	Microcontact Printing of Proteins <b>2005</b> , 31-52		2
21	Capillary-Driven Microfluidic Chips for Miniaturized Immunoassays: Efficient Fabrication and Sealing of Chips Using a "Chip-Olate" Process. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1547, 25-36	1.4	1
20	Capillary-Driven Microfluidic Chips for Miniaturized Immunoassays: Patterning Capture Antibodies Using Microcontact Printing and Dry-Film Resists. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1547, 37-47	1.4	1
19	Hele-Shaw Flow Theory in the Context of Open Microfluidics: From Dipoles to Quadrupoles <b>2018</b> , 63-82		1
18	Microcontact Printing of Proteins <b>2008</b> , 31		1
17	Microfluidic Networks for Patterning Biomolecules and Performing Bioassays <b>2001</b> , 429-431		1
16	Single-bead arrays for fluorescence-based immunoassays on capillary-driven microfluidic chips <b>2016</b> ,		1
15	Large-Scale Dried Reagent Reconstitution and Diffusion Control Using Microfluidic Self-Coalescence Modules.. <i>Small</i> , <b>2022</b> , e2105939	11	0
14	Hydrodynamic Flow Confinement Using a Microfluidic Probe <b>2018</b> , 1-19		
13	Single-Cell Analysis with the BioPen <b>2018</b> , 187-219		
12	Microfluidic Probes for Single-Cell Proteomic Analysis <b>2018</b> , 221-248		
11	Development of Pipettes as Mobile Nanofluidic Devices for Mass Spectrometric Analysis <b>2018</b> , 273-293		
10	Microfluidic Probes for Scanning Electrochemical Microscopy <b>2018</b> , 373-390		
9	Chemistode for High Temporal- and Spatial-Resolution Chemical Analysis <b>2018</b> , 391-410		
8	Hierarchical Hydrodynamic Flow Confinement (hHFC) and Recirculation for Performing Microscale Chemistry on Surfaces <b>2018</b> , 21-45		
7	Design of Hydrodynamically Confined Microflow Devices with Numerical Modeling: Controlling Flow Envelope, Pressure, and Shear Stress <b>2018</b> , 47-61		
6	Implementation and Applications of Microfluidic Quadrupoles <b>2018</b> , 83-100		

- 5 Hydrodynamic Flow Confinement-Assisted Immunohistochemistry from Micrometer to Millimeter Scale **2018**, 101-114
- 4 Local Nucleic Acid Analysis of Adherent Cells **2018**, 115-137
- 3 Microfluidic Probe for Neural Organotypic Brain Tissue and Cell Perfusion **2018**, 139-154
- 2 The Multifunctional Pipette **2018**, 155-185
- 1 Capillary Microfluidics for Monitoring Medication Adherence. *Angewandte Chemie*, **2021**, 133, 17928-17940