

Emmanuel Delamarche

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148
papers

12,142
citations

57
h-index

109
g-index

154
ext. papers

12,962
ext. citations

8.9
avg, IF

6.13
L-index

#	Paper	IF	Citations
148	Large-Scale Dried Reagent Reconstitution and Diffusion Control Using Microfluidic Self-Coalescence Modules.. <i>Small</i> , 2022 , e2105939	11	0
147	Nanodiagnosics to Face SARS-CoV-2 and Future Pandemics: From an Idea to the Market and Beyond. <i>ACS Nano</i> , 2021 ,	16.7	8
146	Capillary Microfluidics for Monitoring Medication Adherence. <i>Angewandte Chemie</i> , 2021 , 133, 17928-17940	16.4	4
145	Capillary Microfluidics for Monitoring Medication Adherence. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17784-17796	16.4	4
144	Methods for immobilizing receptors in microfluidic devices: A review. <i>Micro and Nano Engineering</i> , 2021 , 11, 100085	3.4	4
143	Rapid quantitative assays for glucose-6-phosphate dehydrogenase (G6PD) and hemoglobin combined on a capillary-driven microfluidic chip. <i>Lab on A Chip</i> , 2021 , 21, 3573-3582	7.2	3
142	Biopatterning: The Art of Patterning Biomolecules on Surfaces. <i>Langmuir</i> , 2021 , 37, 9637-9651	4	3
141	Microscale Interfacial Polymerization on a Chip. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24064-24069	16.4	3
140	Transposing Lateral Flow Immunoassays to Capillary-Driven Microfluidics Using Self-Coalescence Modules and Capillary-Assembled Receptor Carriers. <i>Analytical Chemistry</i> , 2020 , 92, 940-946	7.8	29
139	Complex Nucleic Acid Hybridization Reactions inside Capillary-Driven Microfluidic Chips. <i>Small</i> , 2020 , 16, e2005476	11	5
138	Electro-actuated valves and self-vented channels enable programmable flow control and monitoring in capillary-driven microfluidics. <i>Science Advances</i> , 2020 , 6, eaay8305	14.3	17
137	Crypto anchors. <i>IBM Journal of Research and Development</i> , 2019 , 63, 4:1-4:12	2.5	10
136	Immuno-gold silver staining assays on capillary-driven microfluidics for the detection of malaria antigens. <i>Biomedical Microdevices</i> , 2019 , 21, 24	3.7	8
135	Programmable hydraulic resistor for microfluidic chips using electrogate arrays. <i>Scientific Reports</i> , 2019 , 9, 17242	4.9	3
134	Self-coalescing flows in microfluidics for pulse-shaped delivery of reagents. <i>Nature</i> , 2019 , 574, 228-232	50.4	38
133	Electrogates for stop-and-go control of liquid flow in microfluidics. <i>Applied Physics Letters</i> , 2018 , 112, 153701	3.4	13
132	Hydrodynamic Flow Confinement Using a Microfluidic Probe 2018 , 1-19		

131 Single-Cell Analysis with the BioPen **2018**, 187-219

130 Microfluidic Probes for Single-Cell Proteomic Analysis **2018**, 221-248

129 Development of Pipettes as Mobile Nanofluidic Devices for Mass Spectrometric Analysis **2018**, 273-293

128 Microfluidic Probes for Scanning Electrochemical Microscopy **2018**, 373-390

127 Chemistode for High Temporal- and Spatial-Resolution Chemical Analysis **2018**, 391-410

126 Hierarchical Hydrodynamic Flow Confinement (hHFC) and Recirculation for Performing Microscale Chemistry on Surfaces **2018**, 21-45

125 Design of Hydrodynamically Confined Microflow Devices with Numerical Modeling: Controlling Flow Envelope, Pressure, and Shear Stress **2018**, 47-61

124 Hele-Shaw Flow Theory in the Context of Open Microfluidics: From Dipoles to Quadrupoles **2018**, 63-82

1

123 Implementation and Applications of Microfluidic Quadrupoles **2018**, 83-100

122 Hydrodynamic Flow Confinement-Assisted Immunohistochemistry from Micrometer to Millimeter Scale **2018**, 101-114

121 Local Nucleic Acid Analysis of Adherent Cells **2018**, 115-137

120 Microfluidic Probe for Neural Organotypic Brain Tissue and Cell Perfusion **2018**, 139-154

119 The Multifunctional Pipette **2018**, 155-185

118 Malaria and the 'last' parasite: how can technology help?. *Malaria Journal*, **2018**, 17, 260

3.6 18

117 Sub-nanoliter, real-time flow monitoring in microfluidic chips using a portable device and smartphone. *Scientific Reports*, **2018**, 8, 10603

4.9 25

116 High-Content Optical Codes for Protecting Rapid Diagnostic Tests from Counterfeiting. *Analytical Chemistry*, **2018**, 90, 7383-7390

7.8 12

115 A bead-based immunogold-silver staining assay on capillary-driven microfluidics. *Biomedical Microdevices*, **2018**, 20, 41

3.7 11

114 Chemiluminescence generation and detection in a capillary-driven microfluidic chip **2017**,

4

113	Capillary-Driven Microfluidic Chips for Miniaturized Immunoassays: Efficient Fabrication and Sealing of Chips Using a "Chip-Olate" Process. <i>Methods in Molecular Biology</i> , 2017 , 1547, 25-36	1.4	1
112	Capillary-Driven Microfluidic Chips for Miniaturized Immunoassays: Patterning Capture Antibodies Using Microcontact Printing and Dry-Film Resists. <i>Methods in Molecular Biology</i> , 2017 , 1547, 37-47	1.4	1
111	Mesenchymal stem cells from tumor microenvironment favour breast cancer stem cell proliferation, cancerogenic and metastatic potential, via ionotropic purinergic signalling. <i>Scientific Reports</i> , 2017 , 7, 13162	4.9	31
110	Precision Diagnostics for Mobile Health Using Capillary-driven Microfluidics. <i>Chimia</i> , 2017 , 71, 385	1.3	3
109	Dielectrophoretic microbead sorting using modular electrode design and capillary-driven microfluidics. <i>Biomedical Microdevices</i> , 2017 , 19, 95	3.7	5
108	Selective local lysis and sampling of live cells for nucleic acid analysis using a microfluidic probe. <i>Scientific Reports</i> , 2016 , 6, 29579	4.9	32
107	Single-bead arrays for fluorescence-based immunoassays on capillary-driven microfluidic chips 2016 ,		1
106	Lab-on-a-chip devices: How to close and plug the lab?. <i>Microelectronic Engineering</i> , 2015 , 132, 156-175	2.5	326
105	Arraying single microbeads in microchannels using dielectrophoresis-assisted mechanical traps. <i>Applied Physics Letters</i> , 2015 , 107, 204102	3.4	4
104	Hierarchical hydrodynamic flow confinement: efficient use and retrieval of chemicals for microscale chemistry on surfaces. <i>Langmuir</i> , 2014 , 30, 3640-5	4	36
103	Chip-olate and dry-film resists for efficient fabrication, singulation and sealing of microfluidic chips. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 097001	2	19
102	The floating microfluidic probe: Distance control between probe and sample using hydrodynamic levitation. <i>Applied Physics Letters</i> , 2014 , 104, 263501	3.4	6
101	A compact and versatile microfluidic probe for local processing of tissue sections and biological specimens. <i>Review of Scientific Instruments</i> , 2014 , 85, 034301	1.7	15
100	Capillary-driven microfluidic chips with evaporation-induced flow control and dielectrophoretic microbead trapping 2014 ,		2
99	Capillary-driven microfluidic chips with evaporation-induced flow control and dielectrophoretic microbead trapping. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2014 , 13, 033018	0.7	5
98	Heterogeneous integration of gels into microfluidics using a mesh carrier. <i>Biomedical Microdevices</i> , 2014 , 16, 829-35	3.7	4
97	Reagents in microfluidics: an 'in' and 'out' challenge. <i>Chemical Society Reviews</i> , 2013 , 42, 8494-516	58.5	64
96	Pharmacology on microfluidics: multimodal analysis for studying cell-cell interaction. <i>Current Opinion in Pharmacology</i> , 2013 , 13, 821-8	5.1	9

95	Flock-based microfluidics. <i>Advanced Materials</i> , 2013 , 25, 2672-6	24	13
94	Advanced Capillary Soft Valves for Flow Control in Self-Driven Microfluidics. <i>Micromachines</i> , 2013 , 4, 1-8	3.3	10
93	Mikrofluidik im offenen Raum – lokalisierte Prozesse an biologischen Oberflächen. <i>Angewandte Chemie</i> , 2012 , 124, 11386-11403	3.6	5
92	Microfluidics in the "open space" for performing localized chemistry on biological interfaces. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11224-40	16.4	82
91	Micro-immunohistochemistry using a microfluidic probe. <i>Lab on A Chip</i> , 2012 , 12, 1040-3	7.2	54
90	Overflow microfluidic networks: application to the biochemical analysis of brain cell interactions in complex neuroinflammatory scenarios. <i>Analytical Chemistry</i> , 2012 , 84, 9833-40	7.8	21
89	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> , 2012 , 125, 5110-23	5.3	94
88	Capillary soft valves for microfluidics. <i>Lab on A Chip</i> , 2012 , 12, 1972-8	7.2	39
87	Capillary-driven multiparametric microfluidic chips for one-step immunoassays. <i>Biosensors and Bioelectronics</i> , 2011 , 27, 64-70	11.8	63
86	High-grade optical polydimethylsiloxane for microfluidic applications. <i>Biomedical Microdevices</i> , 2011 , 13, 1027-32	3.7	8
85	Protein tethering into multiscale geometries by covalent subtractive printing. <i>Advanced Materials</i> , 2011 , 23, 1550-3	24	12
84	Microfluidic chips for point-of-care immunodiagnostics. <i>Advanced Materials</i> , 2011 , 23, H151-76	24	349
83	Microfluidic Diagnostic Devices: Microfluidic Chips for Point-of-Care Immunodiagnostics (Adv. Mater. 24/2011). <i>Advanced Materials</i> , 2011 , 23, H208-H208	24	4
82	Controlled release of reagents in capillary-driven microfluidics using reagent integrators. <i>Lab on A Chip</i> , 2011 , 11, 2680-5	7.2	38
81	A vertical microfluidic probe. <i>Langmuir</i> , 2011 , 27, 5686-93	4	86
80	Two complementary methods to characterize long range proximity effects due to develop loading 2010 ,		3
79	Overflow microfluidic networks for open and closed cell cultures on chip. <i>Analytical Chemistry</i> , 2010 , 82, 3936-42	7.8	18
78	A microfluidic device for depositing and addressing two cell populations with intercellular population communication capability. <i>Biomedical Microdevices</i> , 2010 , 12, 275-82	3.7	15

77	Large-scale arrays of aligned single viruses. <i>Advanced Materials</i> , 2010 , 22, 111-4	24	11
76	Multilayered microfluidic probe heads. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 115006		22
75	Autonomous capillary system for one-step immunoassays. <i>Biomedical Microdevices</i> , 2009 , 11, 1-8	3.7	36
74	Controlled deposition of cells in sealed microfluidics using flow velocity boundaries. <i>Lab on A Chip</i> , 2009 , 9, 1395-402	7.2	14
73	Toward one-step point-of-care immunodiagnostics using capillary-driven microfluidics and PDMS substrates. <i>Lab on A Chip</i> , 2009 , 9, 3330-7	7.2	283
72	Microcontact Printing of Proteins 2008 , 31		1
71	High-performance immunoassays based on through-stencil patterned antibodies and capillary systems. <i>Analytical Chemistry</i> , 2008 , 80, 1763-9	7.8	39
70	Cellular microarrays for use with capillary-driven microfluidics. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 801-8	4.4	21
69	Valves for autonomous capillary systems. <i>Microfluidics and Nanofluidics</i> , 2008 , 5, 395-402	2.8	118
68	Controlled particle placement through convective and capillary assembly. <i>Langmuir</i> , 2007 , 23, 11513-21	4	282
67	Capillary pumps for autonomous capillary systems. <i>Lab on A Chip</i> , 2007 , 7, 119-25	7.2	276
66	Facile preparation of complex protein architectures with sub-100-nm resolution on surfaces. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6837-40	16.4	104
65	Facile Preparation of Complex Protein Architectures with Sub-100-nm Resolution on Surfaces. <i>Angewandte Chemie</i> , 2007 , 119, 6961-6964	3.6	14
64	Screening cell surface receptors using micromosaic immunoassays. <i>Biomedical Microdevices</i> , 2007 , 9, 135-41	3.7	15
63	Microcontact Processing for Microtechnology and Biology. <i>Chimia</i> , 2007 , 61, 126-132	1.3	6
62	Continuous flow in open microfluidics using controlled evaporation. <i>Lab on A Chip</i> , 2005 , 5, 1355-9	7.2	69
61	Diffusion of alkanethiols in PDMS and its implications on microcontact printing (muCP). <i>Langmuir</i> , 2005 , 21, 622-32	4	54
60	Microcontact printing of proteins inside microstructures. <i>Langmuir</i> , 2005 , 21, 11296-303	4	39

59	Microcontact Printing of Proteins 2005 , 31-52		2
58	Multipurpose microfluidic probe. <i>Nature Materials</i> , 2005 , 4, 622-8	27	163
57	Microfluidics for Processing Surfaces and Miniaturizing Biological Assays. <i>Advanced Materials</i> , 2005 , 17, 2911-2933	24	208
56	Closing the Gap Between Self-Assembly and Microsystems Using Self-Assembly, Transfer, and Integration of Particles. <i>Advanced Materials</i> , 2005 , 17, 2438-2442	24	61
55	Modeling and optimization of high-sensitivity, low-volume microfluidic-based surface immunoassays. <i>Biomedical Microdevices</i> , 2005 , 7, 99-110	3.7	126
54	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> , 2004 , 19, 1193-202	11.8	159
53	High-sensitivity miniaturized immunoassays for tumor necrosis factor alpha using microfluidic systems. <i>Lab on A Chip</i> , 2004 , 4, 563-9	7.2	178
52	Selective wet-etching of microcontact-printed Cu substrates with control over the etch profile. <i>Microelectronic Engineering</i> , 2003 , 67-68, 326-332	2.5	14
51	Preparation of Metallic Films on Elastomeric Stamps and Their Application for Contact Processing and Contact Printing. <i>Advanced Functional Materials</i> , 2003 , 13, 145-153	15.6	120
50	Self-Assembled Microarrays of Attoliter Molecular Vessels. <i>Angewandte Chemie</i> , 2003 , 115, 5738-5741	3.6	42
49	Self-assembled microarrays of attoliter molecular vessels. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5580-3	16.4	180
48	Fabrication of Metal Nanowires Using Microcontact Printing. <i>Langmuir</i> , 2003 , 19, 6301-6311	4	120
47	Fabricating Arrays of Single Protein Molecules on Glass Using Microcontact Printing. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 703-711	3.4	168
46	Electroless Deposition of NiB on 15 Inch Glass Substrates for the Fabrication of Transistor Gates for Liquid Crystal Displays. <i>Langmuir</i> , 2003 , 19, 5923-5935	4	37
45	Electroless Deposition of Cu on Glass and Patterning with Microcontact Printing. <i>Langmuir</i> , 2003 , 19, 6567-6569	4	49
44	Patterning NiB Electroless Deposited on Glass Using an Electroplated Cu Mask, Microcontact Printing, and Wet Etching. <i>Langmuir</i> , 2003 , 19, 5892-5897	4	19
43	Direct Patterning of NiB on Glass Substrates Using Microcontact Printing and Electroless Deposition. <i>Langmuir</i> , 2003 , 19, 6283-6296	4	37
42	Microcontact Printing Using Poly(dimethylsiloxane) Stamps Hydrophilized by Poly(ethylene oxide) Silanes. <i>Langmuir</i> , 2003 , 19, 8749-8758	4	145

41	Fabricating Microarrays of Functional Proteins Using Affinity Contact Printing. <i>Angewandte Chemie</i> , 2002 , 114, 2426-2429	3.6	16
40	Fabricating microarrays of functional proteins using affinity contact printing. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2320-3	16.4	128
39	Printing Meets Lithography: Soft Approaches to High-Resolution Patterning. <i>Chimia</i> , 2002 , 56, 527-542	1.3	28
38	Positive microcontact printing. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3834-5	16.4	57
37	Self-Assembled Monolayers of Eicosanethiol on Palladium and Their Use in Microcontact Printing. <i>Langmuir</i> , 2002 , 18, 2406-2412	4	74
36	Defect-Tolerant and Directional Wet-Etch Systems for Using Monolayers as Resists. <i>Langmuir</i> , 2002 , 18, 2374-2377	4	77
35	Autonomous microfluidic capillary system. <i>Analytical Chemistry</i> , 2002 , 74, 6139-44	7.8	327
34	Microfluidic Capillary Systems for The Autonomous Transport of Bio/Chemicals 2002 , 952-954		3
33	Hydrophilic Poly(dimethylsiloxane) Stamps for Microcontact Printing. <i>Advanced Materials</i> , 2001 , 13, 1164-1167	1.67	161
32	Affinity capture of proteins from solution and their dissociation by contact printing. <i>Nature Biotechnology</i> , 2001 , 19, 866-9	44.5	115
31	Soft and rigid two-level microfluidic networks for patterning surfaces. <i>Journal of Micromechanics and Microengineering</i> , 2001 , 11, 532-541	2	56
30	. <i>IBM Journal of Research and Development</i> , 2001 , 45, 697-719	2.5	399
29	Microfluidic Networks Made of Poly(dimethylsiloxane), Si, and Au Coated with Polyethylene Glycol for Patterning Proteins onto Surfaces. <i>Langmuir</i> , 2001 , 17, 4090-4095	4	145
28	Micromosaic immunoassays. <i>Analytical Chemistry</i> , 2001 , 73, 8-12	7.8	295
27	Microfluidic Networks for Patterning Biomolecules and Performing Bioassays 2001 , 429-431		1
26	Formation of Gradients of Proteins on Surfaces with Microfluidic Networks. <i>Langmuir</i> , 2000 , 16, 9125-9130	4	66
25	Stress at the Solid-Liquid Interface of Self-Assembled Monolayers on Gold Investigated with a Nanomechanical Sensor. <i>Langmuir</i> , 2000 , 16, 9694-9696	4	98
24	Patterned Electroless Deposition of Copper by Microcontact Printing Palladium(II) Complexes on Titanium-Covered Surfaces. <i>Langmuir</i> , 2000 , 16, 6367-6373	4	70

23	Microcontact-Printing Chemical Patterns with Flat Stamps. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6303-6304	16.4	80
22	Surface potential studies of self-assembling monolayers using Kelvin probe force microscopy 1999 , 27, 368-373		28
21	Kelvin Probe Force Microscopy on Surfaces: Investigation of the Surface Potential of Self-Assembled Monolayers on Gold. <i>Langmuir</i> , 1999 , 15, 8184-8188	4	157
20	Contact-Inking Stamps for Microcontact Printing of Alkanethiols on Gold. <i>Langmuir</i> , 1999 , 15, 300-304	4	162
19	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> , 1998 , 66, S55-S59	2.6	63
18	Printing Patterns of Proteins. <i>Langmuir</i> , 1998 , 14, 2225-2229	4	472
17	Microfluidic Networks for Chemical Patterning of Substrates: Design and Application to Bioassays. <i>Journal of the American Chemical Society</i> , 1998 , 120, 500-508	16.4	351
16	Transport Mechanisms of Alkanethiols during Microcontact Printing on Gold. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3324-3334	3.4	218
15	Lithography beyond light: Microcontact printing with monolayer resists. <i>IBM Journal of Research and Development</i> , 1997 , 41, 159-170	2.5	173
14	Order in Microcontact Printed Self-Assembled Monolayers. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3017-3026	16.4	141
13	Making Gold Nanostructures Using Self-Assembled Monolayers and a Scanning Tunneling Microscope. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 9263-9269	3.4	26
12	Patterned delivery of immunoglobulins to surfaces using microfluidic networks. <i>Science</i> , 1997 , 276, 779-813	33.3	597
11	Surface Stress in the Self-Assembly of Alkanethiols on Gold. <i>Science</i> , 1997 , 276, 2021-2024	33.3	443
10	Stability of molded polydimethylsiloxane microstructures. <i>Advanced Materials</i> , 1997 , 9, 741-746	24	300
9	Immobilization of Antibodies on a Photoactive Self-Assembled Monolayer on Gold. <i>Langmuir</i> , 1996 , 12, 1997-2006	4	146
8	Structure and stability of self-assembled monolayers. <i>Thin Solid Films</i> , 1996 , 273, 54-60	2.2	48
7	Golden interfaces: The Surface of Self-Assembled Monolayers. <i>Advanced Materials</i> , 1996 , 8, 719-729	24	274
6	Recognition of Individual Tail Groups in Self-Assembled Monolayers. <i>Langmuir</i> , 1995 , 11, 3876-3881	4	92

5	End-Group-Dominated Molecular Order in Self-Assembled Monolayers. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 7102-7107		130
4	Domain and Molecular Superlattice Structure of Dodecanethiol Self-Assembled on Au(111). <i>Europhysics Letters</i> , 1994 , 27, 365-370	1.6	84
3	Thermal Stability of Self-Assembled Monolayers. <i>Langmuir</i> , 1994 , 10, 4103-4108	4	235
2	Real-Space Observation of Nanoscale Molecular Domains in Self-Assembled Monolayers. <i>Langmuir</i> , 1994 , 10, 2869-2871	4	251
1	Structure of Hydrophilic Self-Assembled Monolayers: A Combined Scanning Tunneling Microscopy and Computer Simulation Study. <i>Langmuir</i> , 1994 , 10, 4116-4130	4	120