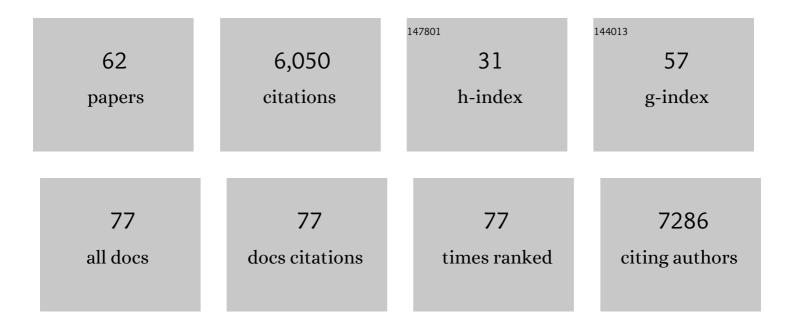
## Sebastian Josef Maerkl

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microfluidic Large-Scale Integration. Science, 2002, 298, 580-584.	12.6	2,155
2	A Systems Approach to Measuring the Binding Energy Landscapes of Transcription Factors. Science, 2007, 315, 233-237.	12.6	555
3	LSPR Chip for Parallel, Rapid, and Sensitive Detection of Cancer Markers in Serum. Nano Letters, 2014, 14, 2636-2641.	9.1	262
4	Discovery of a hepatitis C target and its pharmacological inhibitors by microfluidic affinity analysis. Nature Biotechnology, 2008, 26, 1019-1027.	17.5	215
5	Rapid cell-free forward engineering of novel genetic ring oscillators. ELife, 2015, 4, e09771.	6.0	214
6	Cascaded amplifying circuits enable ultrasensitive cellular sensors for toxic metals. Nature Chemical Biology, 2019, 15, 540-548.	8.0	199
7	An in vitro microfluidic approach to generating protein-interaction networks. Nature Methods, 2009, 6, 71-74.	19.0	138
8	Implementation of cell-free biological networks at steady state. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15985-15990.	7.1	137
9	Integration of plasmonic trapping in a microfluidic environment. Optics Express, 2009, 17, 6018.	3.4	134
10	A software-programmable microfluidic device for automated biology. Lab on A Chip, 2011, 11, 1612.	6.0	134
11	A chemostat array enables the spatio-temporal analysis of the yeast proteome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15842-15847.	7.1	123
12	Two distinct promoter architectures centered on dynamic nucleosomes control ribosomal protein gene transcription. Genes and Development, 2014, 28, 1695-1709.	5.9	109
13	Topology and Dynamics of the Zebrafish Segmentation Clock Core Circuit. PLoS Biology, 2012, 10, e1001364.	5.6	108
14	A Simple, Robust, and Low-Cost Method To Produce the PURE Cell-Free System. ACS Synthetic Biology, 2019, 8, 455-462.	3.8	100
15	Massively parallel measurements of molecular interaction kinetics on a microfluidic platform. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16540-16545.	7.1	99
16	Bottom-Up Construction of Complex Biomolecular Systems With Cell-Free Synthetic Biology. Frontiers in Bioengineering and Biotechnology, 2020, 8, 213.	4.1	91
17	Does Positive Selection Drive Transcription Factor Binding Site Turnover? A Test with Drosophila Cis-Regulatory Modules. PLoS Genetics, 2011, 7, e1002053.	3.5	78
18	Experimental strategies for studying transcription factor-DNA binding specificities. Briefings in Functional Genomics, 2010, 9, 362-373.	2.7	77

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19	A Digital–Analog Microfluidic Platform for Patient-Centric Multiplexed Biomarker Diagnostics of Ultralow Volume Samples. ACS Nano, 2016, 10, 1699-1710.	14.6	71
20	Microfluidic systems for cancer diagnostics. Current Opinion in Biotechnology, 2020, 65, 37-44.	6.6	71
21	Long-Term Single Cell Analysis of S. pombe on a Microfluidic Microchemostat Array. PLoS ONE, 2014, 9, e93466.	2.5	67
22	Experimental determination of the evolvability of a transcription factor. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18650-18655.	7.1	64
23	Cell-free gene-regulatory network engineering with synthetic transcription factors. Proceedings of the United States of America, 2019, 116, 5892-5901.	7.1	59
24	Mapping the fine structure of a eukaryotic promoter input-output function. Nature Genetics, 2013, 45, 1207-1215.	21.4	53
25	A high-throughput nanoimmunoassay chip applied to large-scale vaccine adjuvant screening. Integrative Biology (United Kingdom), 2013, 5, 650-658.	1.3	46
26	A 1024-sample serum analyzer chip for cancer diagnostics. Lab on A Chip, 2014, 14, 2642-2650.	6.0	44
27	A high-throughput microfluidic nanoimmunoassay for detecting anti–SARS-CoV-2 antibodies in serum or ultralow-volume blood samples. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	44
28	How single-cell immunology is benefiting from microfluidic technologies. Microsystems and Nanoengineering, 2020, 6, 45.	7.0	41
29	Real-Time mRNA Measurement during an <i>in Vitro</i> Transcription and Translation Reaction Using Binary Probes. ACS Synthetic Biology, 2013, 2, 411-417.	3.8	40
30	A partially self-regenerating synthetic cell. Nature Communications, 2020, 11, 6340.	12.8	40
31	A Microfluidic Platform for High-Throughput Multiplexed Protein Quantitation. PLoS ONE, 2015, 10, e0117744.	2.5	35
32	A High-Throughput Microfluidic Platform for Mammalian Cell Transfection and Culturing. Scientific Reports, 2016, 6, 23937.	3.3	35
33	Single Molecule Localization and Discrimination of DNA–Protein Complexes by Controlled Translocation Through Nanocapillaries. Nano Letters, 2016, 16, 7882-7890.	9.1	34
34	Integration column: Microfluidic high-throughput screening. Integrative Biology (United Kingdom), 2009, 1, 19-29.	1.3	32
35	Next generation microfluidic platforms for high-throughput protein biochemistry. Current Opinion in Biotechnology, 2011, 22, 59-65.	6.6	25
36	Probing the Informational and Regulatory Plasticity of a Transcription Factor DNA–Binding Domain. PLoS Genetics, 2012, 8, e1002614.	3.5	23

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37	MITOMI: A Microfluidic Platform for In Vitro Characterization of Transcription Factor–DNA Interaction. Methods in Molecular Biology, 2012, 786, 97-114.	0.9	22
38	Multiplexed surface micropatterning of proteins with a pressure-modulated microfluidic button-membrane. Chemical Communications, 2013, 49, 1264-1266.	4.1	22
39	GreA and GreB Enhance Expression of <i>Escherichia coli</i> RNA Polymerase Promoters in a Reconstituted Transcription–Translation System. ACS Synthetic Biology, 2016, 5, 929-935.	3.8	21
40	Live mammalian cell arrays. Nature Methods, 2013, 10, 550-552.	19.0	20
41	Integrating gene synthesis and microfluidic protein analysis for rapid protein engineering. Nucleic Acids Research, 2016, 44, e68-e68.	14.5	19
42	iSLIM: a comprehensive approach to mapping and characterizing gene regulatory networks. Nucleic Acids Research, 2013, 41, e52-e52.	14.5	17
43	Mechanically Induced Trapping of Molecular Interactions and Its Applications. Journal of the Association for Laboratory Automation, 2016, 21, 356-367.	2.8	16
44	Microfluidic Module for Real-Time Generation of Complex Multimolecule Temporal Concentration Profiles. Analytical Chemistry, 2018, 90, 696-701.	6.5	16
45	A SARS-CoV-2 omicron (B.1.1.529) variant outbreak in a primary school in Geneva, Switzerland. Lancet Infectious Diseases, The, 2022, 22, 767-768.	9.1	16
46	Microfluidic device for real-time formulation of reagents and their subsequent encapsulation into double emulsions. Scientific Reports, 2018, 8, 8143.	3.3	14
47	Natureâ€Inspired Circularâ€Economy Recycling for Proteins: Proof of Concept. Advanced Materials, 2021, 33, e2104581.	21.0	14
48	Microfluidic co-culture platform to quantify chemotaxis of primary stem cells. Lab on A Chip, 2016, 16, 1934-1945.	6.0	13
49	A Microfluidic Biodisplay. ACS Synthetic Biology, 2017, 6, 1979-1987.	3.8	13
50	CFPU: A Cell-Free Processing Unit for High-Throughput, Automated In Vitro Circuit Characterization in Steady-State Conditions. Biodesign Research, 2021, 2021, .	1.9	9
51	Steady-State Cell-Free Gene Expression with Microfluidic Chemostats. Methods in Molecular Biology, 2021, 2229, 189-203.	0.9	9
52	A Multilayer Microfluidic Platform for the Conduction of Prolonged Cell-Free Gene Expression. Journal of Visualized Experiments, 2019, , .	0.3	8
53	Rapid Synthesis of Defined Eukaryotic Promoter Libraries. ACS Synthetic Biology, 2012, 1, 483-490.	3.8	7
54	OnePot PURE Cell-Free System. Journal of Visualized Experiments, 2021, , .	0.3	7

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55	Multi-target tracking of packed yeast cells. , 2010, , .		6
56	Biochemistry of Aminoacyl tRNA Synthetase and tRNAs and Their Engineering for Cell-Free and Synthetic Cell Applications. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	6
57	An automated do-it-yourself system for dynamic stem cell and organoid culture in standard multi-well plates. Cell Reports Methods, 2022, 2, 100244.	2.9	6
58	A High-Throughput Microfluidic Method for Generating and Characterizing Transcription Factor Mutant Libraries. Methods in Molecular Biology, 2012, 813, 107-123.	0.9	4
59	High-Throughput Single-Cell TCR–pMHC Dissociation Rate Measurements Performed by an Autonomous Microfluidic Cellular Processing Unit. ACS Sensors, 2022, 7, 159-165.	7.8	1
60	A Protein Interaction Network generated from Streptococcus Pneumoniae. Biophysical Journal, 2009, 96, 7a.	0.5	0
61	Microfluidic Transfection for High-Throughput Mammalian Protein Expression. Methods in Molecular Biology, 2018, 1850, 189-208.	0.9	0
62	Natureâ€Inspired Circularâ€Economy Recycling for Proteins: Proof of Concept (Adv. Mater. 44/2021). Advanced Materials, 2021, 33, 2170345.	21.0	0