

Christoph A Merten

List of Publications by Year in descending order

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36
papers

3,202
citations

304743

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345221

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docs citations

39
times ranked

4070
citing authors

#	ARTICLE	IF	CITATIONS
1	Enrichment of gut microbiome strains for cultivation-free genome sequencing using droplet microfluidics. <i>Cell Reports Methods</i> , 2022, 2, 100137.	2.9	14
2	Technological and computational advances driving high-throughput oncology. <i>Trends in Cell Biology</i> , 2022, 32, 947-961.	7.9	5
3	Microfluidics as an Enabling Technology for Personalized Cancer Therapy. <i>Small</i> , 2020, 16, e1904321.	10.0	55
4	Microfluidics as an Emerging Precision Tool in Developmental Biology. <i>Developmental Cell</i> , 2019, 48, 293-311.	7.0	51
5	Single-Cell Droplet Microfluidic Screening for Antibodies Specifically Binding to Target Cells. <i>Cell Reports</i> , 2018, 22, 2206-2215.	6.4	149
6	Modulation of Phase Shift between Wnt and Notch Signaling Oscillations Controls Mesoderm Segmentation. <i>Cell</i> , 2018, 172, 1079-1090.e12.	28.9	155
7	A Versatile, Low-Cost, Multiway Microfluidic Sorter for Droplets, Cells, and Embryos. <i>Analytical Chemistry</i> , 2018, 90, 5982-5988.	6.5	27
8	Microfluidic single-cell technology in immunology and antibody screening. <i>Molecular Aspects of Medicine</i> , 2018, 59, 47-61.	6.4	66
9	A microfluidics platform for combinatorial drug screening on cancer biopsies. <i>Nature Communications</i> , 2018, 9, 2434.	12.8	177
10	Microfluidic train station: highly robust and multiplexable sorting of droplets on electric rails. <i>Lab on A Chip</i> , 2017, 17, 1024-1030.	6.0	29
11	Single-Virus Droplet Microfluidics for High-Throughput Screening of Neutralizing Epitopes on HIV Particles. <i>Cell Chemical Biology</i> , 2017, 24, 751-757.e3.	5.2	33
12	Droplet-based microfluidics in drug discovery, transcriptomics and high-throughput molecular genetics. <i>Lab on A Chip</i> , 2016, 16, 1314-1331.	6.0	295
13	Soft compartmentalization: Combining droplet-based microfluidics with freely accessible cells. <i>Engineering in Life Sciences</i> , 2015, 15, 297-305.	3.6	1
14	Quantifying Preferences and Responsiveness of Marine Zooplankton to Changing Environmental Conditions using Microfluidics. <i>PLoS ONE</i> , 2015, 10, e0140553.	2.5	8
15	Dynein-Based Accumulation of Membranes Regulates Nuclear Expansion in <i>Xenopus laevis</i> Egg Extracts. <i>Developmental Cell</i> , 2015, 33, 562-575.	7.0	72
16	Efficient cell pairing in droplets using dual-color sorting. <i>Lab on A Chip</i> , 2015, 15, 3989-3993.	6.0	44
17	Functional single-cell hybridoma screening using droplet-based microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11570-11575.	7.1	236
18	Fragmentation of DNA in a sub-microliter microfluidic sonication device. <i>Lab on A Chip</i> , 2012, 12, 4677.	6.0	30

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19	Micro segmented-flow in biochemical and cell-based assays. <i>Frontiers in Bioscience - Elite</i> , 2012, E4, 1768.	1.8	0
20	Retroviral Display in Gene Therapy, Protein Engineering, and Vaccine Development. <i>ACS Chemical Biology</i> , 2011, 6, 61-74.	3.4	15
21	Microfluidic devices for diagnostic applications. <i>Expert Review of Molecular Diagnostics</i> , 2011, 11, 505-519.	3.1	49
22	A Competitive Co-cultivation Assay for Cancer Drug Specificity Evaluation. <i>Journal of Biomolecular Screening</i> , 2011, 16, 818-824.	2.6	4
23	Coupling the Inhibition of Viral Transduction with a Positive Fluorescence Signal. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 352-357.	1.1	2
24	High-Throughput Screening of Enzymes by Retroviral Display Using Droplet-Based Microfluidics. <i>Chemistry and Biology</i> , 2010, 17, 229-235.	6.0	84
25	Miniaturization and Parallelization of Biological and Chemical Assays in Microfluidic Devices. <i>Chemistry and Biology</i> , 2010, 17, 1052-1065.	6.0	126
26	An automated two-phase microfluidic system for kinetic analyses and the screening of compound libraries. <i>Lab on A Chip</i> , 2010, 10, 1302.	6.0	99
27	Nanoliter plates – versatile tools for the screening of split-and-mix libraries on-bead and off-bead. <i>Chemical Communications</i> , 2010, 46, 2209.	4.1	13
28	Screening Europe 2010: an update about the latest technologies and applications in high-throughput screening. <i>Expert Review of Molecular Diagnostics</i> , 2010, 10, 559-563.	3.1	5
29	A competition-based assay for the screening of species-specific antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2009, 64, 62-68.	3.0	5
30	Imaging of mRNA in Live Cells Using Nucleic Acid-Templated Reduction of Azidorhodamine Probes. <i>Journal of the American Chemical Society</i> , 2009, 131, 6492-6497.	13.7	156
31	Droplet-Based Microfluidic Platforms for the Encapsulation and Screening of Mammalian Cells and Multicellular Organisms. <i>Chemistry and Biology</i> , 2008, 15, 427-437.	6.0	620
32	Drop-based microfluidic devices for encapsulation of single cells. <i>Lab on A Chip</i> , 2008, 8, 1110.	6.0	470
33	Fusoselect: cell-cell fusion activity engineered by directed evolution of a retroviral glycoprotein. <i>Nucleic Acids Research</i> , 2006, 34, e41-e41.	14.5	5
34	Directed Evolution of Retrovirus Envelope Protein Cytoplasmic Tails Guided by Functional Incorporation into Lentivirus Particles. <i>Journal of Virology</i> , 2005, 79, 834-840.	3.4	22
35	Circumventing Tolerance to the Prion Protein (PrP): Vaccination with PrP-Displaying Retrovirus Particles Induces Humoral Immune Responses against the Native Form of Cellular PrP. <i>Journal of Virology</i> , 2005, 79, 4033-4042.	3.4	62
36	Displaying Epidermal Growth Factor on Spleen Necrosis Virus-Derived Targeting Vectors. <i>Virology</i> , 2003, 305, 106-114.	2.4	5