

Assaf Rotem

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

3,160
citations

394421

19
h-index

610901

24
g-index

27
all docs

27
docs citations

27
times ranked

5193
citing authors

#	ARTICLE	IF	CITATIONS
1	Droplet microfluidics for high-throughput biological assays. <i>Lab on A Chip</i> , 2012, 12, 2146.	6.0	854
2	Single-cell ChIP-seq reveals cell subpopulations defined by chromatin state. <i>Nature Biotechnology</i> , 2015, 33, 1165-1172.	17.5	748
3	MAFG-driven astrocytes promote CNS inflammation. <i>Nature</i> , 2020, 578, 593-599.	27.8	282
4	High throughput production of single core double emulsions in a parallelized microfluidic device. <i>Lab on A Chip</i> , 2012, 12, 802.	6.0	241
5	Cross-Kingdom Chemical Communication Drives a Heritable, Mutually Beneficial Prion-Based Transformation of Metabolism. <i>Cell</i> , 2014, 158, 1083-1093.	28.9	158
6	Reliable neuronal logic devices from patterned hippocampal cultures. <i>Nature Physics</i> , 2008, 4, 967-973.	16.7	138
7	DNA sequence analysis with droplet-based microfluidics. <i>Lab on A Chip</i> , 2013, 13, 4864.	6.0	103
8	Synthesis of Monodisperse Microparticles from Non-Newtonian Polymer Solutions with Microfluidic Devices. <i>Advanced Materials</i> , 2011, 23, 1757-1760.	21.0	96
9	Drop formation in non-planar microfluidic devices. <i>Lab on A Chip</i> , 2012, 12, 4263.	6.0	88
10	High-Throughput Single-Cell Labeling (Hi-SCL) for RNA-Seq Using Drop-Based Microfluidics. <i>PLoS ONE</i> , 2015, 10, e0116328.	2.5	64
11	Magnetic Stimulation of One-Dimensional Neuronal Cultures. <i>Biophysical Journal</i> , 2008, 94, 5065-5078.	0.5	57
12	Rapid, targeted and culture-free viral infectivity assay in drop-based microfluidics. <i>Lab on A Chip</i> , 2015, 15, 3934-3940.	6.0	53
13	Evolution on the Biophysical Fitness Landscape of an RNA Virus. <i>Molecular Biology and Evolution</i> , 2018, 35, 2390-2400.	8.9	45
14	Direct on-the-spot detection of SARS-CoV-2 in patients. <i>Experimental Biology and Medicine</i> , 2020, 245, 1187-1193.	2.4	33
15	Isolation and Analysis of Rare Norovirus Recombinants from Coinfected Mice Using Drop-Based Microfluidics. <i>Journal of Virology</i> , 2015, 89, 7722-7734.	3.4	32
16	Artifact-Free Quantification and Sequencing of Rare Recombinant Viruses by Using Drop-Based Microfluidics. <i>ChemBioChem</i> , 2015, 16, 2167-2171.	2.6	28
17	A high-throughput drop microfluidic system for virus culture and analysis. <i>Journal of Virological Methods</i> , 2015, 213, 111-117.	2.1	28
18	Loop-Mediated Isothermal Amplification Detection of SARS-CoV-2 and Myriad Other Applications. <i>Journal of Biomolecular Techniques</i> , 2021, 32, 228-275.	1.5	28

#	ARTICLE	IF	CITATIONS
19	Chronaxie Measurements in Patterned Neuronal Cultures from Rat Hippocampus. PLoS ONE, 2015, 10, e0132577.	2.5	22
20	Solving the Orientation Specific Constraints in Transcranial Magnetic Stimulation by Rotating Fields. PLoS ONE, 2014, 9, e86794.	2.5	21
21	Whole-Genome Sequencing of a Single Viral Species from a Highly Heterogeneous Sample. Angewandte Chemie - International Edition, 2015, 54, 13985-13988.	13.8	17
22	Efficient encapsulation with plug-triggered drop formation. Physical Review E, 2011, 84, 031502.	2.1	13
23	External Excitation of Neurons Using Electric and Magnetic Fields in One- and Two-dimensional Cultures. Journal of Visualized Experiments, 2017, , .	0.3	5
24	A Protocol for Simple, Rapid, and Direct Detection of SARS-CoV-2 from clinical samples, using Reverse Transcribed Loop-Mediated Isothermal Amplification (RT-LAMP). Bio-protocol, 2020, 10, e3789.	0.4	0