Ott Scheler

List of Publications by Year
in descending order

28 papers	937 citations	687363 13 h-index	610901 24 g-index
32 all docs	32 docs citations	32 times ranked	1323 citing authors

#	Article	IF	Citations
1	Droplet microfluidics for microbiology: techniques, applications and challenges. Lab on A Chip, 2016, 16, 2168-2187.	6.0	326
2	Understanding How Microorganisms Respond to Acid pH Is Central to Their Control and Successful Exploitation. Frontiers in Microbiology, 2020, 11, 556140.	3.5	90
3	Label-free, multiplexed detection of bacterial tmRNA using silicon photonic microring resonators. Biosensors and Bioelectronics, 2012, 36, 56-61.	10.1	68
4	Recent developments of microfluidics as a tool for biotechnology and microbiology. Current Opinion in Biotechnology, 2019, 55, 60-67.	6.6	63
5	Droplet-based digital antibiotic susceptibility screen reveals single-cell clonal heteroresistance in an isogenic bacterial population. Scientific Reports, 2020, 10, 3282.	3.3	54
6	Nucleic acid detection technologies and marker molecules in bacterial diagnostics. Expert Review of Molecular Diagnostics, 2014, 14, 489-500.	3.1	44
7	Dodecylresorufin (C12R) Outperforms Resorufin in Microdroplet Bacterial Assays. ACS Applied Materials & Interfaces, 2016, 8, 11318-11325.	8.0	40
8	Optimized droplet digital CFU assay (ddCFU) provides precise quantification of bacteria over a dynamic range of 6â€‰logs and beyond. Lab on A Chip, 2017, 17, 1980-1987.	6.0	40
9	Microfluidic screening of antibiotic susceptibility at a single-cell level shows the inoculum effect of cefotaxime on E. coli. Lab on A Chip, 2018, 18, 3668-3677.	6.0	37
10	ESTCube-1 nanosatellite for electric solar wind sail in-orbit technology demonstration. Proceedings of the Estonian Academy of Sciences, 2014, 63, 2000.	1.5	34
11	Techniques Used for Analyzing Microplastics, Antimicrobial Resistance and Microbial Community Composition: A Mini-Review. Frontiers in Microbiology, 2021, 12, 603967.	3.5	20
12	Can 3D Printing Bring Droplet Microfluidics to Every Lab?â€”A Systematic Review. Micromachines, 2021, 12, 339.	2.9	17
13	Direct droplet digital PCR (dddPCR) for species specific, accurate and precise quantification of bacteria in mixed samples. Analytical Methods, 2019, 11, 5730-5735.	2.7	14
14	Detection of NASBA amplified bacterial tmRNA molecules on SLICSel designed microarray probes. BMC Biotechnology, 2011, 11, 17.	3.3	12
15	Droplet image analysis with user-friendly freeware CellProfiler. Analytical Methods, 2020, 12, 2287-2294.	2.7	11
16	Fluorescent labeling of NASBA amplified tmRNA molecules for microarray applications. BMC Biotechnology, 2009, 9, 45.	3.3	10
17	Investigation of Different Free Image Analysis Software for High-Throughput Droplet Detection. ACS Omega, 2021, 6, 22625-22634.	3.5	10
18	Nafion Protective Membrane Enables Using Ruthenium Oxide Electrodes for pH Measurement in Milk. Journal of the Electrochemical Society, 2021, 168, 107511.	2.9	10

#	Article	IF	Citations
19	Detection of tmRNA molecules on microarrays at low temperatures using helper oligonucleotides. BMC Biotechnology, 2010, 10, 34.	3.3	7
20	Optical Detection Methods for High-Throughput Fluorescent Droplet Microflow Cytometry. Micromachines, 2021, 12, 345.	2.9	6
21	Nafion as a protective membrane for screen-printed pH-sensitive ruthenium oxide electrodes. , 2020, , .		5
22	Integrated carbon nanotube fibreâ€“quartz tuning fork biosensor. Proceedings of the Estonian Academy of Sciences, 2012, 61, 48.	1.5	4
23	Droplet-based methods for tackling antimicrobial resistance. Current Opinion in Biotechnology, 2022, 76, 102755.	6.6	4
24	A dual colour FISH method for routine validation of sexed Bos taurus semen. BMC Veterinary Research, 2019, 15, 104.	1.9	3
25	Front-Face Fluorimeter for the Determination of Cutting Time of Cheese Curd. Foods, 2021, 10, 576.	4.3	3
26	Reusability of RuO₂-Nafion electrodes, suitable for potentiometric pH measurement. , 2022, , .		1
27	Microarray detection of labeled NASBA products for the specific identification of pathogenic bacteria using tmRNA as a target. , 2008, , .		0
28	Naturally Amplified Player for Biosensing: tmRNA to the Rescue. Procedia Engineering, 2011, 25, 1549-1552.	1.2	0