

Christoph Gerber

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

2,986
citations

623734

14
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

3987
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and Ultrasensitive Detection of Mutations and Genes Relevant to Antimicrobial Resistance in Bacteria. <i>Global Challenges</i> , 2021, 5, 2000066.	3.6	4
2	Scanning probe microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	103
3	Atomic force microscopy-based mechanobiology. <i>Nature Reviews Physics</i> , 2019, 1, 41-57.	26.6	500
4	Imaging modes of atomic force microscopy for application in molecular and cell biology. <i>Nature Nanotechnology</i> , 2017, 12, 295-307.	31.5	699
5	Atomic force microscopy-based characterization and design of biointerfaces. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	145
6	Inertial picobalance reveals fast mass fluctuations in mammalian cells. <i>Nature</i> , 2017, 550, 500-505.	27.8	100
7	Piezoresistive Membrane Surface Stress Sensors for Characterization of Breath Samples of Head and Neck Cancer Patients. <i>Sensors</i> , 2016, 16, 1149.	3.8	22
8	Fast Diagnostics of BRAF Mutations in Biopsies from Malignant Melanoma. <i>Nano Letters</i> , 2016, 16, 5373-5377.	9.1	11
9	Nanosensors for cancer detection. <i>Swiss Medical Weekly</i> , 2015, 145, w14092.	1.6	15
10	Mechanical control of mitotic progression in single animal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11258-11263.	7.1	76
11	Optimization of DNA Hybridization Efficiency by pH-Driven Nanomechanical Bending. <i>Langmuir</i> , 2012, 28, 6494-6501.	3.5	58
12	Quantitative time-resolved measurement of membrane protein-ligand interactions using microcantilever array sensors. <i>Nature Nanotechnology</i> , 2009, 4, 179-185.	31.5	214
13	Microcantilever Sensors. <i>Topics in Current Chemistry</i> , 2008, 285, 1-27.	4.0	27
14	Resonating modes of vibrating microcantilevers in liquid. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	93
15	Conformational Change of Bacteriorhodopsin Quantitatively Monitored by Microcantilever Sensors. <i>Biophysical Journal</i> , 2006, 90, 2970-2977.	0.5	67
16	How the doors to the nanoworld were opened. <i>Nature Nanotechnology</i> , 2006, 1, 3-5.	31.5	265
17	Multiple label-free biodetection and quantitative DNA-binding assays on a nanomechanical cantilever array. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9783-9788.	7.1	582
18	Cantilever Array Sensors for Bioanalysis and Diagnostics. , 0, , 175-195.		5