

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