

Hans Peter Lang

List of Publications by Year in descending order

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26
papers

2,744
citations

516710

16
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

2488
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Surface Stress in the Self-Assembly of Alkanethiols on Gold. Science, 1997, 276, 2021-2024.	12.6	501
3	How the doors to the nanoworld were opened. Nature Nanotechnology, 2006, 1, 3-5.	31.5	265
4	Rapid functionalization of cantilever array sensors by inkjet printing. Nanotechnology, 2004, 15, 873-880.	2.6	222
5	Cantilever array sensors. Materials Today, 2005, 8, 30-36.	14.2	192
6	Micromechanical cantilever array sensors for selective fungal immobilization and fast growth detection. Biosensors and Bioelectronics, 2005, 21, 849-856.	10.1	153
7	Micromechanical mass sensors for biomolecular detection in a physiological environment. Physical Review E, 2005, 72, 031907.	2.1	138
8	Higher modes of vibration increase mass sensitivity in nanomechanical microcantilevers. Nanotechnology, 2007, 18, 445502.	2.6	119
9	Label free analysis of transcription factors using microcantilever arrays. Biosensors and Bioelectronics, 2006, 21, 1599-1605.	10.1	93
10	Resonating modes of vibrating microcantilevers in liquid. Applied Physics Letters, 2008, 92, .	3.3	93
11	Inkjet Deposition of Alkanethiolate Monolayers and DNA Oligonucleotides on Gold: Evaluation of Spot Uniformity by Wet Etching. Langmuir, 2004, 20, 5119-5122.	3.5	82
12	An Antibody-Sensitized Microfabricated Cantilever for the Growth Detection of Aspergillus niger Spores. Microscopy and Microanalysis, 2007, 13, 13-17.	0.4	66
13	Optimization of DNA Hybridization Efficiency by pH-Driven Nanomechanical Bending. Langmuir, 2012, 28, 6494-6501.	3.5	58
14	Label-free detection of amyloid growth with microcantilever sensors. Nanotechnology, 2008, 19, 384007.	2.6	35
15	Microcantilever Sensors. Topics in Current Chemistry, 2008, 285, 1-27.	4.0	27
16	Piezoresistive Membrane Surface Stress Sensors for Characterization of Breath Samples of Head and Neck Cancer Patients. Sensors, 2016, 16, 1149.	3.8	22
17	Nanosensors for cancer detection. Swiss Medical Weekly, 2015, 145, w14092.	1.6	15
18	Analyzing refractive index changes and differential bending in microcantilever arrays. Review of Scientific Instruments, 2008, 79, 086110.	1.3	13

#	ARTICLE	IF	CITATIONS
19	Analyzing Gene Expression Using Combined Nanomechanical Cantilever Sensors. Journal of Physics: Conference Series, 2007, 61, 450-453.	0.4	12
20	New leverage against superbugs. Nature Nanotechnology, 2008, 3, 645-646.	31.5	12
21	Fast Diagnostics of BRAF Mutations in Biopsies from Malignant Melanoma. Nano Letters, 2016, 16, 5373-5377.	9.1	11
22	Processing of kinetic microarray signals. Sensors and Actuators B: Chemical, 2007, 128, 75-82.	7.8	10
23	Nanomechanics – The Link to Biology and Chemistry. Chimia, 2002, 56, 515-519.	0.6	9
24	Cantilever Array Sensors for Bioanalysis and Diagnostics. , 0, , 175-195.		5
25	Up close & personal with atoms & molecules. Materials Today, 2009, 12, 18-25.	14.2	5
26	Rapid and Ultrasensitive Detection of Mutations and Genes Relevant to Antimicrobial Resistance in Bacteria. Global Challenges, 2021, 5, 2000066.	3.6	4