

# Hans Peter Lang

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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  | 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        |
| 3  | Fast Diagnostics of BRAF Mutations in Biopsies from Malignant Melanoma. <i>Nano Letters</i> , 2016, 16, 5373-5377.                                                    | 9.1  | 11        |
| 4  | Nanosensors for cancer detection. <i>Swiss Medical Weekly</i> , 2015, 145, w14092.                                                                                    | 1.6  | 15        |
| 5  | Optimization of DNA Hybridization Efficiency by pH-Driven Nanomechanical Bending. <i>Langmuir</i> , 2012, 28, 6494-6501.                                              | 3.5  | 58        |
| 6  | Up close & personal with atoms & molecules. <i>Materials Today</i> , 2009, 12, 18-25.                                                                                 | 14.2 | 5         |
| 7  | New leverage against superbugs. <i>Nature Nanotechnology</i> , 2008, 3, 645-646.                                                                                      | 31.5 | 12        |
| 8  | Label-free detection of amyloid growth with microcantilever sensors. <i>Nanotechnology</i> , 2008, 19, 384007.                                                        | 2.6  | 35        |
| 9  | Microcantilever Sensors. <i>Topics in Current Chemistry</i> , 2008, 285, 1-27.                                                                                        | 4.0  | 27        |
| 10 | Analyzing refractive index changes and differential bending in microcantilever arrays. <i>Review of Scientific Instruments</i> , 2008, 79, 086110.                    | 1.3  | 13        |
| 11 | Resonating modes of vibrating microcantilevers in liquid. <i>Applied Physics Letters</i> , 2008, 92, .                                                                | 3.3  | 93        |
| 12 | Higher modes of vibration increase mass sensitivity in nanomechanical microcantilevers. <i>Nanotechnology</i> , 2007, 18, 445502.                                     | 2.6  | 119       |
| 13 | Analyzing Gene Expression Using Combined Nanomechanical Cantilever Sensors. <i>Journal of Physics: Conference Series</i> , 2007, 61, 450-453.                         | 0.4  | 12        |
| 14 | An Antibody-Sensitized Microfabricated Cantilever for the Growth Detection of <i>Aspergillus niger</i> Spores. <i>Microscopy and Microanalysis</i> , 2007, 13, 13-17. | 0.4  | 66        |
| 15 | Processing of kinetic microarray signals. <i>Sensors and Actuators B: Chemical</i> , 2007, 128, 75-82.                                                                | 7.8  | 10        |
| 16 | How the doors to the nanoworld were opened. <i>Nature Nanotechnology</i> , 2006, 1, 3-5.                                                                              | 31.5 | 265       |
| 17 | Label free analysis of transcription factors using microcantilever arrays. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1599-1605.                                | 10.1 | 93        |
| 18 | Micromechanical cantilever array sensors for selective fungal immobilization and fast growth detection. <i>Biosensors and Bioelectronics</i> , 2005, 21, 849-856.     | 10.1 | 153       |

| #  | ARTICLE                                                                                                                                                                                                                  | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Cantilever array sensors. <i>Materials Today</i> , 2005, 8, 30-36.                                                                                                                                                       | 14.2 | 192       |
| 20 | Micromechanical mass sensors for biomolecular detection in a physiological environment. <i>Physical Review E</i> , 2005, 72, 031907.                                                                                     | 2.1  | 138       |
| 21 | Inkjet Deposition of Alkanethiolate Monolayers and DNA Oligonucleotides on Gold: Evaluation of Spot Uniformity by Wet Etching. <i>Langmuir</i> , 2004, 20, 5119-5122.                                                    | 3.5  | 82        |
| 22 | Rapid functionalization of cantilever array sensors by inkjet printing. <i>Nanotechnology</i> , 2004, 15, 873-880.                                                                                                       | 2.6  | 222       |
| 23 | 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       |
| 24 | Nanomechanics – The Link to Biology and Chemistry. <i>Chimia</i> , 2002, 56, 515-519.                                                                                                                                    | 0.6  | 9         |
| 25 | Surface Stress in the Self-Assembly of Alkanethiols on Gold. <i>Science</i> , 1997, 276, 2021-2024.                                                                                                                      | 12.6 | 501       |
| 26 | Cantilever Array Sensors for Bioanalysis and Diagnostics. , 0, , 175-195.                                                                                                                                                |      | 5         |