Teodor Gotszalk

List of Publications by Year
in descending order

38	278	1040056 9	996975 15
papers	citations	h-index	g-index

38	38	38	376
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calibration and examination of piezoresistive Wheatstone bridge cantilevers for scanning probe microscopy. Ultramicroscopy, 2003, 97, 385-389.	1.9	30
2	Dielectric Barrier Discharge Ionization in Characterization of Organic Compounds Separated on Thin-Layer Chromatography Plates. PLoS ONE, 2014, 9, e106088.	2.5	20
3	Application of quartz tuning forks for detection of endotoxins and Gram-negative bacterial cells by monitoring of Limulus Amebocyte Lysate coagulation. Biosensors and Bioelectronics, 2014, 58, 132-137.	10.1	18
4	Fabrication and characterization of boron-doped nanocrystalline diamond-coated MEMS probes. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	18
5	Optimal Design of Electromagnetically Actuated MEMS Cantilevers. Sensors, 2018, 18, 2533.	3.8	15
6	FAPA mass spectrometry of designer drugs. Talanta, 2016, 146, 29-33.	5.5	14
7	Investigation of multi-junction solar cells using electrostatic force microscopy methods. Ultramicroscopy, 2014, 141, 1-8.	1.9	13
8	Electrochemical generation of selegiline metabolites coupled to mass spectrometry. Journal of Chromatography A, 2015, 1389, 96-103.	3.7	13
9	Scanning probe microscopy investigations of the electrical properties of chemical vapor deposited graphene grown on a 6H-SiC substrate. Micron, 2015, 68, 17-22.	2.2	11
10	Heat assisted sample introduction and determination of cannabinoids by dielectric barrier discharge ionization mass spectrometry. International Journal of Mass Spectrometry, 2015, 386, 32-36.	1.5	10
11	Selfâ€supporting graphene films and their applications. IET Circuits, Devices and Systems, 2015, 9, 420-427.	1.4	9
12	Contact atomic force microscopy using piezoresistive cantilevers in load force modulation mode. Ultramicroscopy, 2018, 184, 199-208.	1.9	9
13	Electromagnetic cantilever reference for the calibration of optical nanodisplacement systems. Sensors and Actuators A: Physical, 2018, 282, 149-156.	4.1	9
14	Stable Field Electron Emission and Plasma Illumination from Boron and Nitrogen Coâ€Doped Edgeâ€Rich Diamondâ€Enhanced Carbon Nanowalls. Advanced Materials Interfaces, 2021, 8, 2100464.	3.7	9
15	Focused ion beam milling and deposition techniques in validation of mass change value and position determination method for micro and nanomechanical sensors. Journal of Applied Physics, 2012, 112, .	2.5	7
16	Piezoresistive cantilever working in a shear force mode forin situcharacterization of exposed micro- and nanostructures. Measurement Science and Technology, 2014, 25, 044018.	2.6	7
17	Investigation of thermal effects in through-silicon vias using scanning thermal microscopy. Micron, 2014, 66, 63-68.	2.2	7
18	Technology of thermally driven and magnetomotively detected MEMS microbridges. Sensors and Actuators A: Physical, 2016, 240, 17-22.	4.1	7

#	Article	IF	Citations
19	New design of the cantilevers for radiation pressure investigations. Microelectronic Engineering, 2018, 201, 10-15.	2.4	7
20	Origin and anomalous behavior of dominant defects in 4H-SiC studied by conventional and Laplace deep level transient spectroscopy. Journal of Applied Physics, 2020, 127, .	2.5	7
21	Carrier density distribution in silicon nanowires investigated by scanning thermal microscopy and Kelvin probe force microscopy. Micron, 2015, 79, 93-100.	2.2	6
22	Light Extraction From Scintillating Crystals Enhanced by Photonic Crystal Structures Patterned by Focused Ion Beam. IEEE Transactions on Nuclear Science, 2016, 63, 644-648.	2.0	6
23	Investigations of mechanical properties of microfabricated resonators using atomic force microscopy related techniques. Microelectronic Engineering, 2014, 119, 164-168.	2.4	5
24	Influence of B/N co-doping on electrical and photoluminescence properties of CVD grown homoepitaxial diamond films. Nanotechnology, 2022, 33, 125603.	2.6	5
25	Combined Shear Force-Tunneling Microscope with Interferometric Tip Oscillation Detection for Local Surface Investigation and Oxidation. , 2006, , 144-156.		3
26	Force Spectroscopy with Quantitative On-Cantilever Force Control. Proceedings (mdpi), 2018, 2, 915.	0.2	2
27	Multifrequency Kelvin probe force microscopy on self assembled molecular layers and quantitative assessment of imagesâ€™ quality. Ultramicroscopy, 2018, 194, 100-107.	1.9	2
28	MEMS displacement generator for atomic force microscopy metrology. Measurement Science and Technology, 2021, 32, 065903.	2.6	2
29	Photon force microelectromechanical system cantilever combined with a fibre optic system as a measurement technique for optomechanical studies. Measurement Science and Technology, 2022, 33, 027001.	2.6	2
30	Fabrication and metrology of electromagnetically actuated microcantilever arrays for biochemical sensing. , 2012, , .		1
31	New approach for a multi-cantilever arrays sensor system with advanced MOEMS readout. , 2016, , .		1
32	Metrological 2iOF fibre-optic system for position and displacement measurement with 31 pm resolution. Review of Scientific Instruments, 2018, 89, 045001.	1.3	1
33	Mechanical Impedance Analysis of a Novel MEMS Photon Force Sensor. Proceedings (mdpi), 2018, 2, 921.	0.2	1
34	Modification and Characterization of Metallized Tips for Scanning Probe Microscopy. Praktische Metallographie/Practical Metallography, 2007, 44, 451-463.	0.3	1
35	Efficient broken line fitting procedure for analysis of force spectroscopy curves in chemical force microscopy. Journal of Applied Physics, 2013, 114, 064310.	2.5	0
36	Quality factor and resonant frequency measurement by ARMA process identification of randomly excited MEMS/NEMS cantilever. , 2014, , .		0

#	Article	IF	Citations
37	Quartz tuning fork mass change sensing for FIB/SEM technology. Micron, 2020, 129, 102792.	2.2	0
38	Analysis of the electrolytically polished skeletal dentures surfaces using various nano- and microscopic technologies. Acta of Bioengineering and Biomechanics, 2019, 21, 123-129.	0.4	0