Rodrigo Sergio Wiederkehr

List of Publications by Year
in descending order

23 papers	240 citations	1163117 8 h-index	996975 15 g-index
23 all docs	23 docs citations	23 times ranked	392 citing authors

#	Article	IF	Citations
1	Low-loss optical waveguides for the near ultra-violet and visible spectral regions with Al2O3 thin films from atomic layer deposition. Thin Solid Films, 2010, 518, 4935-4940.	1.8	76
2	Platinum and gold thin films deposited by filtered vacuum arc: morphological and crystallographic grain sizes. Surface and Coatings Technology, 2006, 200, 2965-2969.	4.8	26
3	Rapid and sensitive detection of viral nucleic acids using silicon microchips. Analyst, The, 2018, 143, 2596-2603.	3.5	19
4	Multiplex SNP genotyping in whole blood using an integrated microfluidic lab-on-a-chip. Lab on A Chip, 2016, 16, 4012-4019.	6.0	17
5	Investigations on the Q and CT Bands of Cytochrome c Submonolayer Adsorbed on an Alumina Surface Using Broadband Spectroscopy with Single-Mode Integrated Optical Waveguides. Journal of Physical Chemistry C, 2009, 113, 8306-8312.	3.1	15
6	The gas flow rate increase obtained by an oscillating piezoelectric actuator on a micronozzle. Sensors and Actuators A: Physical, 2008, 144, 154-160.	4.1	13
7	A comprehensive methodology for design and development of an integrated microheater for on-chip DNA amplification. Journal of Micromechanics and Microengineering, 2018, 28, 085014.	2.6	12
8	Ultra-fast, sensitive and quantitative on-chip detection of group B streptococci in clinical samples. Talanta, 2019, 192, 220-225.	5.5	12
9	Multiplex STR amplification sensitivity in a silicon microchip. Scientific Reports, 2018, 8, 9853.	3.3	8
10	Fabrication and testing of a poly(vinylidene fluoride) (PVDF) microvalve for gas flow control. Smart Materials and Structures, 2007, 16, 2302-2307.	3.5	6
11	An integrated one-chip-sensor system for microRNA quantitative analysis based on digital droplet polymerase chain reaction. Japanese Journal of Applied Physics, 2016, 55, 04EM05.	1.5	5
12	Silicon ÂµPCR Chip for Forensic STR Profiling with Hybeacon Probe Melting Curves. Scientific Reports, 2019, 9, 7341.	3.3	5
13	INFLUENCE OF ELECTRON SCATTERING FROM MORPHOLOGICAL GRANULARITY AND SURFACE ROUGHNESS ON THIN FILM ELECTRICAL RESISTIVITY. Surface Review and Letters, 2007, 14, 87-91.	1.1	4
14	Anisotropic resistivity of thin films due to quantum electron scattering from anisotropic surface roughness. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 330-333.	2.1	4
15	Sub-Micron Integrated Grating Couplers for Single-Mode Planar Optical Waveguides. , 2008, , .		4
16	Effects of sodium chloride on the properties of chlorophyll <italic>a</italic> submonolayer adsorbed onto hydrophobic and hydrophilic surfaces using broadband spectroscopy with single-mode integrated optical waveguides. Optical Engineering, 2011, 50, 071109.	1.0	3
17	Electrochemical sensor with dry reagents implemented in lab-on-chip for single nucleotide polymorphism detection. Japanese Journal of Applied Physics, 2014, 53, 05FS03.	1.5	3
18	Development and validation of a glass-silicon microdroplet-based system to measure sulfite concentrations in beverages. Analytical and Bioanalytical Chemistry, 2019, 411, 1127-1134.	3.7	3

#	Article	IF	Citations
19	ELECTRICAL RESISTIVITY OF VERY THIN METALLIC FILMS WITH ISOTROPIC AND ANISOTROPIC SURFACES. Surface Review and Letters, 2007, 14, 345-356.	1.1	2
20	Development of microvalves for gas flow control in micronozzles using PVDF piezoelectric polymer. Journal of Physics: Conference Series, 2008, 100, 052046.	0.4	2
21	Extension of the broadband single-mode integrated optical waveguide technique to the ultraviolet spectral region and its applications. Analyst, The, 2014, 139, 1396-1402.	3.5	1
22	Numerical Study of a Piezoelectric Microvalve Using Continuum Methods. , 2008, , .		0
23	Spectroscopic studies in protein films with highly sensitive single-mode guided-wave plataforms. , 2009, , .		0