Albert P Pisano

List of Publications by Year
in descending order

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55 papers	3,522 citations	257450 24 h-index	315739 38 g-index
56 all docs	56 docs citations	56 times ranked	4185 citing authors

#	Article	IF	Citations
1	Monitoring of the central blood pressure waveform via a conformal ultrasonic device. Nature Biomedical Engineering, 2018, 2, 687-695.	22.5	520
2	Piezoelectric Aluminum Nitride Vibrating Contour-Mode MEMS Resonators. Journal of Microelectromechanical Systems, 2006, 15, 1406-1418.	2.5	515
3	Direct Nanoimprinting of Metal Nanoparticles for Nanoscale Electronics Fabrication. Nano Letters, 2007, 7, 1869-1877.	9.1	297
4	Photoactuators and motors based on carbon nanotubes with selective chirality distributions. Nature Communications, 2014, 5, 2983.	12.8	269
5	Single-Chip Multiple-Frequency ALN MEMS Filters Based on Contour-Mode Piezoelectric Resonators. Journal of Microelectromechanical Systems, 2007, 16, 319-328.	2.5	190
6	Injection molded microfluidic chips featuring integrated interconnects. Lab on A Chip, 2006, 6, 1346-1354.	6.0	178
7	One and two port piezoelectric higher order contour-mode MEMS resonators for mechanical signal processing. Solid-State Electronics, 2007, 51, 1596-1608.	1.4	177
8	Temperature-compensated aluminum nitride lamb wave resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 524-532.	3.0	156
9	High-Q aluminum nitride Lamb wave resonators with biconvex edges. Applied Physics Letters, 2011, 99, .	3.3	136
10	Micromachined One-Port Aluminum Nitride Lamb Wave Resonators Utilizing the Lowest-Order Symmetric Mode. Journal of Microelectromechanical Systems, 2014, 23, 78-91.	2.5	115
11	Thermally compensated aluminum nitride Lamb wave resonators for high temperature applications. Applied Physics Letters, 2010, 97, .	3.3	103
12	ZnO nanowire network transistor fabrication on a polymer substrate by low-temperature, all-inorganic nanoparticle solution process. Applied Physics Letters, 2008, 92, .	3.3	93
13	AlN thin films grown on epitaxial 3Câ€“SiC (100) for piezoelectric resonant devices. Applied Physics Letters, 2010, 97, 141907.	3.3	73
14	Transducer design for AlN Lamb wave resonators. Journal of Applied Physics, 2017, 121, .	2.5	59
15	Improved Dielectric Properties of Polyvinylidene Fluoride Nanocomposite Embedded with Poly(vinylpyrrolidone)-Coated Gold Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 6369-6375.	8.0	56
16	Theoretical study of thermally stable SiO2/AlN/SiO2 Lamb wave resonators at high temperatures. Journal of Applied Physics, 2014, 115, .	2.5	39
17	Low temperature, low pressure nanoimprinting of chitosan as a biomaterial for bionanotechnology applications. Applied Physics Letters, 2007, 90, 093902.	3.3	38
18	Theoretical investigation of Lamb wave characteristics in AlN/3Câ€“SiC composite membranes. Applied Physics Letters, 2010, 97, 193506.	3.3	38

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19	High-Resolution Direct Patterning of Gold Nanoparticles by the Microfluidic Molding Process. Langmuir, 2010, 26, 16710-16714.	3.5	34
20	General Dynamic Equations of Helical Springs With Static Solution and Experimental Verification. Journal of Applied Mechanics, Transactions ASME, 1987, 54, 910-917.	2.2	33
21	Quality factor enhancement in Lamb wave resonators utilizing butterfly-shaped AlN plates. , 2014, , .		31
22	A novel continuous microfluidic reactor design for the controlled production of high-quality semiconductor nanocrystals. Journal of Nanoparticle Research, 2008, 10, 893-905.	1.9	28
23	Rigid, Vapor-Permeable Poly(4-methyl-2-pentyne) Templates for High Resolution Patterning of Nanoparticles and Polymers. ACS Nano, 2012, 6, 6890-6896.	14.6	28
24	Pyroelectric aluminum nitride micro electromechanical systems infrared sensor with wavelength-selective infrared absorber. Applied Physics Letters, 2014, 104, .	3.3	26
25	4H-SiC N-Channel JFET for Operation in High-Temperature Environments. IEEE Journal of the Electron Devices Society, 2014, 2, 164-167.	2.1	26
26	Monolithic Integrated Piezoelectric MEMS-Tunable VCSEL. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 374-380.	2.9	24
27	MEMS Rotary Engine Power System. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 326-330.	0.1	22
28	A Polymer-Based Microfluidic Platform Featuring On-Chip Actuated Hydrogel Valves for Disposable Applications. Journal of Microelectromechanical Systems, 2010, 19, 944-950.	2.5	22
29	The Differential Geometry of the General Helix as Applied to Mechanical Springs. Journal of Applied Mechanics, Transactions ASME, 1988, 55, 831-836.	2.2	21
30	Characteristics of AlN Lamb wave resonators with various bottom electrode configurations. , 2011, , .		21
31	Dynamic Model of a Fluctuating Rocker-Arm Ratio Cam System. Journal of Mechanisms, Transmissions, and Automation in Design, 1987, 109, 356-365.	0.2	20
32	Simultaneous Patterning of Nanoparticles and Polymers Using an Evaporation Driven Flow in a Vapor Permeable Template. Langmuir, 2012, 28, 9857-9863.	3.5	16
33	Aluminum nitride as a masking material for the plasma etching of silicon carbide structures. , 2010, , .		12
34	Electrothermal modeling, fabrication and analysis of low-power consumption thermal actuator with buckling arm. Microsystem Technologies, 2015, 21, 195-202.	2.0	11
35	Energy harvesting from cerebrospinal fluid pressure fluctuations for self-powered neural implants. Biomedical Microdevices, 2017, 19, 32.	2.8	11
36	Piezoelectric Thin Film AlN Annular Dual Contour Mode Bandpass Filter. , 2005, , 517.		10

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37	Impact, Friction, and Wear Testing of Microsamples of Polycrystalline Silicon. Materials Research Society Symposia Proceedings, 1992, 276, 67.	0.1	9
38	Low temperature ion beam sputter deposition of amorphous silicon carbide for wafer-level vacuum sealing. , 2007, , .		9
39	MEMS and Nano Technology for the Handheld, Portable Electronic and the Automotive Markets. , 2007, , .		8
40	Nanowire-integrated microporous silicon membrane for continuous fluid transport in micro cooling device. Applied Physics Letters, 2013, 103, 163102.	3.3	6
41	Bent-beam sensing with triple-beam tuning forks. Applied Physics Letters, 2013, 102, 253508.	3.3	6
42	Thermally stable SiO<inf>2</inf>/AlN/SiO<inf>2</inf> Lamb wave resonators utilizing the lowest-order symmetric mode at high temperatures. , 2013, , .		5
43	Dispersion characteristics of high-order lamb wave modes in an AlN/3C-SiC layered plate. , 2012, , .		4
44	High-Q piezoelectric Lamb wave resonators based on AlN plates with chamfered corners. , 2015, , .		4
45	Temperature compensation of the AlN Lamb wave resonators utilizing the S<inf>1</inf> mode. , 2015, , .		4
46	Development of an injection molding tool for complex microfluidic geometries. Microsystem Technologies, 2011, 17, 1537-1540.	2.0	3
47	Self-Transport of Condensed Liquid in Micro Cooling Device Using Distributed Meniscus Pumping. Langmuir, 2015, 31, 6588-6594.	3.5	3
48	High-frequency and low-resonance-impedance lamb wave resonators utilizing the S<inf>1</inf> mode. , 2015, , .		3
49	A silicon carbide differential output pressure sensor by concentrically matched capacitance. , 2017, , .		3
50	Nanocrystalline SiC metal-semiconductor-metal photodetector with ZnO nanorod arrays for high-temperature applications. , 2011, , .		2
51	Synthesis and characterization of gold nanoparticle/SU-8 polymer based nanocomposite. , 2014, , .		2
52	Acoustic characteristics of the third-order quasi-symmetric Lamb wave mode in an AlN/3C-SiC plate. , 2013, , .		1
53	Gel-seq: A Method for Simultaneous Sequencing Library Preparation of DNA and RNA Using Hydrogel Matrices. Journal of Visualized Experiments, 2018, , .	0.3	1
54	Multi-scale pore membrane for continuous, passive fluid transport in a micro cooling device. , 2013, , .		0

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55	Functionalized micromolded nanoparticles towards gas sensor arrays. , 2014, , .		0