Omar Elmazria

List of Publications by Year
in descending order

177 papers	2,895 citations	172207 29 h-index	243296 44 g-index
178 all docs	178 docs citations	178 times ranked	1769 citing authors

#	Article	IF	Citations
1	Wireless Multifunctional Surface Acoustic Wave Sensor for Magnetic Field and Temperature Monitoring. Advanced Materials Technologies, 2022, 7, 2100860.	3.0	15
2	Protocol Wireless Medical Sensor Networks in IoT for the Efficiency of Healthcare. IEEE Internet of Things Journal, 2022, 9, 10693-10704.	5.5	16
3	Development of a Love-Wave Biosensor Based on an Analytical Model. Chemosensors, 2022, 10, 81.	1.8	2
4	SAW Based Sensing System Coupled to a Thin Flexible Antenna for Biomedical Applications. , 2022, , .		0
5	Corrections to â€œEnhanced Performance Love Wave Magnetic Field Sensors With Temperature Compensationâ€•[Oct 20 11292-11301]. IEEE Sensors Journal, 2021, 21, 3956-3956.	2.4	1
6	Modeling and Electrical Characterization of a Bilayer Pt/AlN/Sapphire One Port Resonator for Sensor Applications. Electronics (Switzerland), 2021, 10, 370.	1.8	2
7	AlN/Pt/LN-Y128 Packageless Acoustic Wave Temperature Sensor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2315-2318.	1.7	2
8	Passive Resonant Sensors: Trends and Future Prospects. IEEE Sensors Journal, 2021, 21, 12618-12632.	2.4	29
9	Sensing Mechanism of Surface Acoustic Wave Magnetic Field Sensors Based on Ferromagnetic Films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2566-2575.	1.7	7
10	Langasite as Piezoelectric Substrate for Sensors in Harsh Environments: Investigation of Surface Degradation under High-Temperature Air Atmosphere. Sensors, 2021, 21, 5978.	2.1	1
11	Direct integration of SAW resonators on industrial metal for structural health monitoring applications. Smart Materials and Structures, 2021, 30, 125009.	1.8	8
12	Pushing the Limits of LiNbO3-based High Temperature SAW Sensors. , 2021, , .		1
13	SAW-RFID temperature and strain sensors on metallic substrates. , 2021, , .		1
14	Interconnect-free DRA-SAW RFID Sensing System for High Temperature Monitoring. , 2021, , .		0
15	SAW RFID Devices Using Connected IDTs as an Alternative to Conventional Reflectors for Harsh Environments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1267-1274.	1.7	18
16	FEM Modeling of the Temperature Influence on the Performance of SAW Sensors Operating at GigaHertz Frequency Range and at High Temperature Up to 500 Â°C. Sensors, 2020, 20, 4166.	2.1	18
17	Epitaxial Growth of Sc0.09Al0.91N and Sc0.18Al0.82N Thin Films on Sapphire Substrates by Magnetron Sputtering for Surface Acoustic Waves Applications. Sensors, 2020, 20, 4630.	2.1	5
18	Enhanced Performance Love Wave Magnetic Field Sensors With Temperature Compensation. IEEE Sensors Journal, 2020, 20, 11292-11301.	2.4	20

#	Article	IF	Citations
19	Design and Characterization of High-Q SAW Resonators Based on the AlN/Sapphire Structure Intended for High-Temperature Wireless Sensor Applications. IEEE Sensors Journal, 2020, 20, 6985-6991.	2.4	35
20	A Weak Form Nonlinear Model for Thermal Sensitivity of Love Wave Mode on Layered Structures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1275-1283.	1.7	5
21	Temperature compensated magnetic field sensor based on love waves. Smart Materials and Structures, 2020, 29, 045036.	1.8	24
22	Reversible response of a magnetic surface acoustic wave device with perpendicular magnetization. Journal Physics D: Applied Physics, 2020, 53, 305002.	1.3	2
23	Intrinsic versus shape anisotropy in micro-structured magnetostrictive thin films for magnetic surface acoustic wave sensors. Smart Materials and Structures, 2019, 28, 12LT01.	1.8	21
24	Non-leaky longitudinal acoustic modes in ScxAl1-xN/sapphire structure for high-temperature sensor applications. Applied Physics Letters, 2019, 115, .	1.5	11
25	Stoichiometric Lithium Niobate Crystals: Towards Identifiable Wireless Surface Acoustic Wave Sensors Operable up to 600ÂÂ°C. , 2019, 3, 1-4.		23
26	Wireless stretchable SAW sensors based on Z-cut lithium niobate. , 2019, , .		1
27	SAW RFID Devices Using Connected IDTs as an Alternative to Conventional Reflectors. , 2019, , .		2
28	High-Temperature SAW Resonator Sensors: Electrode Design Specifics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 657-664.	1.7	29
29	Acoustic isolation of discâ€shaped modes using periodic corrugated plateâ€based phononic crystal. Electronics Letters, 2018, 54, 301-303.	0.5	2
30	Study of Low Temperature Deposition of Nanocrystalline Diamond Films on ZnO/LiNbO₃ Layered Structures Suitable for Waveguiding Layer Acoustic Wave Devices. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800251.	0.8	5
31	AlN/GaN/Sapphire heterostructure for high-temperature packageless acoustic wave devices. Sensors and Actuators A: Physical, 2018, 283, 9-16.	2.0	14
32	AlN/ZnO/LiNbO3Packageless Structure as a Low-Profile Sensor for Potential On-Body Applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1925-1932.	1.7	13
33	Comparison between Ir, Ir0.85Rh0.15 and Ir0.7Rh0.3 thin films as electrodes for surface acoustic waves applications above 800 Â°C in air atmosphere. Sensors and Actuators A: Physical, 2017, 266, 211-218.	2.0	11
34	High temperature gradient nanogap-Pirani micro-sensor with maximum sensitivity around atmospheric pressure. Applied Physics Letters, 2017, 111, .	1.5	12
35	Unipolar and Bipolar High-Magnetic-Field Sensors Based on Surface Acoustic Wave Resonators. Physical Review Applied, 2017, 8, .	1.5	43
36	Notice of Removal: AlN/GaN/spphire as promising structure for wireless, batteryless and packageless acoustic wave sensors for high temperature applications. , 2017, , .		0

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37	Diamond/ZnO/LiNbO3 structure for packageless acoustic wave sensors. , 2017, , .		0
38	AlN/ZnO/LiNbO₃ packageless structure as a low-profile sensor for on-body applications. , 2017, , .		2
39	AlN/ZnO/LiNbO3 packageless structure as a low-profile sensor for on-body applications. , 2017, , .		1
40	Notice of Removal: Zero TCF resonator based on S₀ Lamb wave mode in AlN thin plate films. , 2017, , .		0
41	Theoretical and experimental study of ScAlN/Sapphire structure based SAW sensor. , 2017, , .		9
42	Control of the magnetic response in magnetic field SAW sensors. , 2017, , .		3
43	First investigations on stoichiometric lithium niobate as piezoelectric substrate for high-temperature surface acoustic waves applications. , 2017, , .		4
44	Nanogap Pirani Sensor Operating in Constant Temperature Mode for Near Atmospheric Pressure Measurements. Proceedings (mdpi), 2017, 1, 377.	0.2	1
45	Notice of Removal: SAW resonators for magnetic field sensing with (TbCo₂/FeCo) multilayered IDTs as sensitive layer. , 2017, , .		2
46	Notice of Removal: Comparison between Ir, Ir_{0.85}Rh_{0.15} and Ir_{0.7} Rh_{0.3} thin films as electrodes for surface acoustic waves applications above 800 Â°C in air atmosphere. , 2017, , .		0
47	From non-linear magnetoacoustics and spin reorientation transition to magnetoelectric micro/nano-systems. , 2017, , .		0
48	High Resolution Nano-gap Pirani Sensor for Pressure Measurement in Wide Dynamic Range Operation Around Atmospheric Pressure. Procedia Engineering, 2016, 168, 798-801.	1.2	5
49	Packageless acoustic wave sensors for wireless body-centric applications. , 2016, , .		4
50	AlN/IDT/AlN/Sapphire SAW Heterostructure for High-Temperature Applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 898-906.	1.7	16
51	Towards an optimal architecture of high temperature LGS-based SAW sensors. , 2016, , .		0
52	Ir-Rh thin films as high-temperature electrodes for surface acoustic wave sensor applications. Sensors and Actuators A: Physical, 2016, 243, 35-42.	2.0	22
53	Magnetic field SAW sensors based on magnetostrictive-piezoelectric layered structures: FEM modeling and experimental validation. Sensors and Actuators A: Physical, 2016, 240, 41-49.	2.0	46
54	Experimental Study of Multilayer Piezo-magnetic SAW Delay Line for Magnetic Sensor. Procedia Engineering, 2015, 120, 870-873.	1.2	11

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55	Rayleigh surface acoustic wave as an efficient heating system for biological reactions: investigation of microdroplet temperature uniformity. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 729-735.	1.7	28
56	Potential of Al2O3/GaN/Sapphire layered structure for high temperature SAW sensors. , 2015, , .		1
57	AlN films deposited by dc magnetron sputtering and high power impulse magnetron sputtering for SAW applications. Journal Physics D: Applied Physics, 2015, 48, 145307.	1.3	38
58	Monitored vacuum deposition of dielectric coatings over surface acoustic wave devices. Vacuum, 2015, 116, 1-6.	1.6	1
59	Investigations of AlN thin film crystalline properties in a wide temperature range by in situ x-ray diffraction measurements: Correlation with AlN/sapphire-based SAW structure performance. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1397-1402.	1.7	9
60	FEM Modeling of Multilayer Piezo-magnetic Structure Based Surface Acoustic Wave Devices for Magnetic Sensor. Procedia Engineering, 2014, 87, 408-411.	1.2	11
61	Dual Rayleigh and Love surface acoustic wave structures based on ZnO thin film for microfluidic applications. , 2014, , .		0
62	Temperature uniformity of microdroplet heated by buried surface acoustic wave device. , 2014, , .		2
63	Theoretical and experimental study of layered SAW magnetic sensor. , 2014, , .		8
64	Development of wireless, batteryfree gyroscope based on one-port SAW delay line and double resonant antenna. Sensors and Actuators A: Physical, 2014, 220, 270-280.	2.0	22
65	Correlation between structural properties of AlN/Sapphire and performances of SAW devices in wide temperature range. , 2014, , .		2
66	Fabrication of a 3GHz oscillator based on Nano-Carbon-Diamond-film-based guided wave resonators. Microelectronic Engineering, 2013, 112, 133-138.	1.1	1
67	Packageless AlN/ZnO/Si Structure for SAW Devices Applications. IEEE Sensors Journal, 2013, 13, 487-491.	2.4	28
68	AlN/Sapphire: Promising Structure for High Temperature and High Frequency SAW Devices. IEEE Sensors Journal, 2013, 13, 4607-4612.	2.4	16
69	Flexible over-moded resonators based on P(VDF-TrFE) thin films with very high temperature coefficient. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2039-2043.	1.7	8
70	Functional poly(urethane-imide)s containing Lewis bases for SO2 detection by Love surface acoustic wave gas micro-sensors. Sensors and Actuators B: Chemical, 2013, 185, 309-320.	4.0	21
71	Platinum/AlN/Sapphire SAW resonator operating in GHz range for high temperature wireless SAW sensor. , 2013, , .		12
72	Packageless temperature sensor based on AlN/IDT/ZnO/Silicon layered structure. , 2013, , .		4

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73	<i>In situ</i> high-temperature characterization of AlN-based surface acoustic wave devices. Journal of Applied Physics, 2013, 114, .	1.1	54
74	Infra-Red Thermography for spatially resolved measurements of the temperature distribution on the Acoustic Wave devices. , 2013, , .		1
75	Wavelet versus Fourier for wireless SAW sensors resonance frequency measurement. , 2013, , .		1
76	Temperature uniformity of microdroplet heated by Rayleigh Surface Acoustic Wave in view of biological reaction. , 2013, , .		2
77	Investigations on AlN/sapphire piezoelectric bilayer structure for high-temperature SAW applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 999-1005.	1.7	64
78	Characterization of a SAW-Pirani vacuum sensor for two different operating modes. Sensors and Actuators A: Physical, 2012, 188, 41-47.	2.0	13
79	Iridium interdigital transducers for high-temperature surface acoustic wave applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 194-197.	1.7	42
80	Stability of langasite regarding SAW applications above 800°C in air atmosphere. , 2012, , .		15
81	AlN/IDT/AlN/Sapphire as packageless structure for SAW applications in harsh environments. , 2012, , .		3
82	A miniaturized SAW-PIRANI sensor. , 2012, , .		3
83	LiTaO<inf>3</inf> single crystals treated by Vapour Transport Equilibration for temperature-compensated SAW devices. , 2012, , .		0
84	Microfluidic heater assisted by Rayleigh Surface Acoustic Wave on AlN/128°Y-X LiNbO<inf>3</inf> multilayer structure. , 2012, , .		1
85	Deposition of crack-free 30 µm AlN on IDT/ZnO/Si for wave guiding layer acoustic wave applications. , 2011, , .		2
86	Highly textured growth of AlN films on sapphire by magnetron sputtering for high temperature surface acoustic wave applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	0.9	42
87	Is AlN/Sapphire bilayer structure an alternative to langasite for ultra-high-temperature SAW applications?. , 2011, , .		4
88	Behavior of platinum/tantalum as interdigital transducers for SAW devices in high-temperature environments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 603-610.	1.7	55
89	Iridium interdigital transducers for ultra-high-temperature SAW devices. , 2011, , .		5
90	Surface Acoustic Wave sensor based on AlN/Sapphire structure for high temperature and high frequency applications. , 2011, , .		2

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91	High temperature Pt/LGS SAW sensor: From theory to experiment. , 2011, , .		5
92	AlN/ZnO/Si structure - a packageless solution for acoustic wave sensors. , 2011, , .		3
93	Wireless SAW sensor for high temperature applications: material point of view. Proceedings of SPIE, 2011, , .	0.8	21
94	Enhanced Sensitivity of SAW-Based Pirani Vacuum Pressure Sensor. IEEE Sensors Journal, 2011, 11, 1458-1464.	2.4	21
95	AlN/ZnO/diamond waveguiding layer acoustic wave structure: Theoretical and experimental results. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1818-1824.	1.7	21
96	Fabrication of a 3 GHz oscillator based on nano-carbon-diamond-film-based guided wave resonators. , 2010, , .		0
97	Wide vacuum pressure range monitoring by pirani SAW sensor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 684-689.	1.7	9
98	Brillouin spectroscopy applied to the characterization of SAW propagation losses in langasite. , 2010, , .		1
99	Surface acoustic wave devices based on AlN/sapphire structure for high temperature applications. Applied Physics Letters, 2010, 96, .	1.5	86
100	Reliability of AlN/sapphire bilayer structure for high-temperature SAW applications. , 2010, , .		7
101	SAW pressure sensor for vacuum control applications. , 2009, , .		4
102	Isolated acoustic wave based on AlN/ZnO/diamond structure for sensor applications. , 2009, , .		1
103	Study of tantalum and iridium as adhesion layers for Pt/LGS high temperature SAW devices. , 2009, , .		6
104	AlN/ZnO/diamond structure combining isolated and surface acoustic waves. Applied Physics Letters, 2009, 95, .	1.5	29
105	Fabrication of GHz range oscillators stabilized by nano-carbon-diamond-based surface acoustic wave resonators. , 2009, , .		1
106	Temperature study of potassium niobate (KNbO<sub>3</>) elastic constants by brillouin spectroscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 644-648.	1.7	3
107	PANI/ZnO/Quartz structure for Love wave gas sensor. EPJ Applied Physics, 2009, 47, 12702.	0.3	6
108	Growth and characterization of<i>c</i>-axis inclined AlN films for shear wave devices. Semiconductor Science and Technology, 2008, 23, 095013.	1.0	26

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109	c-axis inclined AlN film growth in planar system for shear wave devices. Diamond and Related Materials, 2008, 17, 1770-1774.	1.8	14
110	SAW devices based on ZnO inclined c-axis on diamond. Diamond and Related Materials, 2008, 17, 1420-1423.	1.8	23
111	Very high frequency SAW devices based on nanocrystalline diamond and aluminum nitride layered structure achieved using e-beam lithography. Diamond and Related Materials, 2008, 17, 804-808.	1.8	39
112	Theoretical and Experimental Identification of Love Wave Frequency Peaks in Layered Structure ZnO/Quartz SAW Device. IEEE Sensors Journal, 2008, 8, 1399-1403.	2.4	11
113	GHz frequency ZnO/Si SAW device. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 442-450.	1.7	30
114	Extraction of COM parameters on Pt/LGS for high temperature SAW sensor. , 2008, , .		17
115	Mapping of microwave-induced phonons by Î¼-Brillouin spectroscopy: hypersons in ZnO on silicon. Journal Physics D: Applied Physics, 2008, 41, 105502.	1.3	11
116	New measurement method to characterize piezoelectric saw substrates at very high temperature. , 2008, , .		5
117	Innovative surface acoustic wave sensor for accurate measurement of subatmospheric pressure. Applied Physics Letters, 2008, 92, .	1.5	22
118	4E-5 Study of Temperature Coefficient of Frequency and Electromechanical Coupling Coefficient of X Band Frequency SAW Devices Based on AlN/Diamond Layered Structure. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
119	4E-3 Very High Surface Acoustic Wave Velocity on the Layered Structure Formed of Aluminium Nitride on Nanocrystalline Diamond on Silicon. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	2
120	P4K-4 Novel Layered SAW Structure for Droplet Multidirectional Actuating and Sensing. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	1
121	Theoretical investigation of surface acoustic wave in the new, three-layered structure: ZnO/AlN/diamond. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 676-681.	1.7	11
122	FEM modeling of AlN/diamond surface acoustic waves device. Diamond and Related Materials, 2007, 16, 987-990.	1.8	20
123	High-frequency surface acoustic wave devices based on AlN/diamond layered structure realized using e-beam lithography. Journal of Applied Physics, 2007, 101, 114507.	1.1	67
124	Theoretical, Numerical and Experimental Investigations of Gas Vapour Effects on a ZnO/Quartz SAW Gas Sensor. Ferroelectrics, 2007, 351, 225-235.	0.3	0
125	4E-2 Theoretical and Experimental Study of the Differential Thermal Expansion Effect on the TCD of Layered SAW Temperature Sensors Application to Aluminum Nitride Based Layered Structures. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	7
126	LOW TEMPERATURE GROWTH OF SPUTTERED ALN FILMS FOR LAYERED STRUCTURE SAW DEVICES. Integrated Ferroelectrics, 2007, 91, 119-128.	0.3	1

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127	Numerical Development of ZnO/Quartz Love Wave Structure for Gas Contamination Detection. IEEE Sensors Journal, 2007, 7, 336-341.	2.4	12
128	Elastic and Piezoelectric Constants of Potassium Niobate Studied by Brillouin Spectroscopy. Ferroelectrics, 2007, 351, 96-104.	0.3	8
129	Diamond film on Langasite substrate for surface acoustic wave devices operating in high frequency and high temperature. Diamond and Related Materials, 2007, 16, 966-969.	1.8	2
130	Combination of e-Beam Lithography and of High Velocity AlN/Diamond-Layered Structure for SAW Filters in X Band. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1486-1491.	1.7	15
131	Study of effect of deposition temperature of AlN films on SAW velocity using Brillouin spectroscopy. Diamond and Related Materials, 2007, 16, 1417-1420.	1.8	2
132	Development and characterization of nanocomposite materials. Materials Science and Engineering C, 2007, 27, 1260-1264.	3.8	28
133	Versatile properties of nanocrystalline diamond films deposited in Ar/H₂/CH₄ microwave discharges as a function of process parameters. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2868-2873.	0.8	3
134	Deposition of ZnO inclined <i>c</i>â€axis on silicon and diamond by r.f. magnetron sputtering. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3091-3095.	0.8	14
135	Titanium Nitride Grown by Sputtering for Contacts on Boron-Doped Diamond. Plasma Processes and Polymers, 2007, 4, S139-S143.	1.6	2
136	Sensing characteristics of high-frequency shear mode resonators in glycerol solutionsâ˜†. Sensors and Actuators B: Chemical, 2007, 121, 372-378.	4.0	65
137	P3O-1 5GHz SAW Devices Based on AlN/Diamond Layered Structure. , 2006, , .		5
138	Nanocrystalline diamond films for surface acoustic wave devices. Diamond and Related Materials, 2006, 15, 193-198.	1.8	20
139	FEM modelling of surface acoustic wave in diamond layered structure. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 3179-3184.	0.8	9
140	ZnO/quartz structure potentiality for surface acoustic wave pressure sensor. Sensors and Actuators A: Physical, 2006, 128, 78-83.	2.0	56
141	High frequency SAW devices based on third harmonic generation. Ultrasonics, 2006, 45, 100-103.	2.1	20
142	5GHz surface acoustic wave devices based on aluminum nitride/diamond layered structure realized using electron beam lithography. Applied Physics Letters, 2006, 88, 223504.	1.5	86
143	Microfluidic device based on surface acoustic wave. Sensors and Actuators B: Chemical, 2006, 118, 380-385.	4.0	99
144	Surface Bio-functionalization of boron doped diamond. Materials Research Society Symposia Proceedings, 2006, 956, 1.	0.1	0

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145	c-axis inclined ZnO films for shear-wave transducers deposited by reactive sputtering using an additional blind. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 218-222.	0.9	31
146	STUDY OF ACOUSTICAL AND OPTICAL PROPERTIES OF ALN FILMS FOR SAW AND BAW DEVICES: CORRELATION BETWEEN THESE PROPERTIES. Integrated Ferroelectrics, 2006, 82, 45-54.	0.3	14
147	6I-2 Droplet Heating System Based on SAW/Liquid Interaction. , 2006, , .		6
148	Characterization of ZnO/diamond SAW devices elaborated on the smooth nucleation side of MPACVD diamond. Physica Status Solidi A, 2005, 202, 2217-2223.	1.7	4
149	Mapping of microwave-induced phonons by Î¼-Brillouin spectroscopy: Hypersound in ZnO on Silicon. European Physical Journal Special Topics, 2005, 129, 61-63.	0.2	3
150	ZnO/AlN/diamond layered structure for SAW devices combining high velocity and high electromechanical coupling coefficient. Diamond and Related Materials, 2005, 14, 1175-1178.	1.8	54
151	Imaging of microwave-induced acoustic fields in LiNbO3by high-performance Brillouin microscopy. Journal Physics D: Applied Physics, 2005, 38, 2026-2030.	1.3	22
152	Effect of diamond nucleation process on propagation losses of AlN/diamond SAW filter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1704-1709.	1.7	27
153	Study of structural and microstructural properties of AlN films deposited on silicon and quartz substrates for surface acoustic wave devices. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 1717.	1.6	24
154	Synthesis and microstructural characterisation of reactive RF magnetron sputtering AlN films for surface acoustic wave filters. Diamond and Related Materials, 2004, 13, 1111-1115.	1.8	50
155	Freestanding CVD diamond elaborated by pulsed-microwave-plasma for ZnO/diamond SAW devices. Diamond and Related Materials, 2004, 13, 581-584.	1.8	56
156	Sezawa mode SAW pressure sensors based on ZnO/Si structure. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1421-1426.	1.7	41
157	Surface acoustic wave devices based on nanocrystalline diamond and aluminium nitride. Diamond and Related Materials, 2004, 13, 347-353.	1.8	52
158	Aluminium nitride films deposition by reactive triode sputtering for surface acoustic wave device applications. Surface and Coatings Technology, 2003, 176, 88-92.	2.2	50
159	Investigations on nitrogen addition in the CH4â€"H2 gas mixture used for diamond deposition for a better understanding and the optimisation of the synthesis process. Surface and Coatings Technology, 2003, 176, 37-49.	2.2	12
160	Structural characterisations of AlN/diamond structures used for surface acoustic wave device applications. Physica Status Solidi A, 2003, 199, 145-150.	1.7	12
161	Electrical properties of piezoelectric aluminium nitride films deposited by reactive dc magnetron sputtering. Physica Status Solidi A, 2003, 196, 416-421.	1.7	21
162	Study of aluminium nitride/freestanding diamond surface acoustic waves filters. Diamond and Related Materials, 2003, 12, 723-727.	1.8	29

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163	High velocity SAW using aluminum nitride film on unpolished nucleation side of free-standing CVD diamond. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 710-715.	1.7	62
164	Surface Acoustic Wave Pressure Sensor. Ferroelectrics, 2002, 273, 53-58.	0.3	1
165	Hypersonic characterization of sound propagation velocity in AlxGa1â^'xN thin films. Journal of Applied Physics, 2002, 92, 6868-6874.	1.1	27
166	Reactive DC magnetron sputtering of aluminum nitride films for surface acoustic wave devices. Diamond and Related Materials, 2002, 11, 413-417.	1.8	48
167	Piezoelectric Aluminum Nitride Films Deposited by Triode Sputtering for Surface Acoustic Wave Devices. Ferroelectrics, 2002, 273, 249-254.	0.3	4
168	Surface acoustic wave propagation in aluminum nitride-unpolished freestanding diamond structures. Applied Physics Letters, 2002, 81, 1720-1722.	1.5	100
169	Deposition of Aluminium Nitride Film by Magnetron Sputtering for Diamond-Based Surface Acoustic Wave Applications. Physica Status Solidi A, 2002, 193, 482-488.	1.7	30
170	MPACVD diamond films for surface acoustic wave filters. Diamond and Related Materials, 2001, 10, 681-685.	1.8	20
171	Influence of nitrogen incorporation on the electrical properties of MPCVD diamond films growth in CH4â€"CO2â€"N2 and CH4â€"H2â€"N2 gas mixtures. Thin Solid Films, 2000, 374, 27-33.	0.8	7
172	Modelling of SAW filter based on ZnO/diamond/Si layered structure including velocity dispersion. Applied Surface Science, 2000, 164, 200-204.	3.1	34
173	Simulation of electrons irradiation damages to optimize the performance of IGBT. IEEE Transactions on Nuclear Science, 1997, 44, 14-19.	1.2	9
174	Characterization method for ionizing radiation degradation in power MOSFETs. IEEE Transactions on Nuclear Science, 1995, 42, 1622-1627.	1.2	15
175	C-axis inclined ZnO films deposited by reactive sputtering using an additional blind for shear BAW devices. , 0, , .		4
176	Microwave induced phonons imaging by Brillouin microscopy. , 0, , .		1
177	GHz frequency ZnO/Si SAW device. , 0, , .		2