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	Surface acoustic wave propagation in aluminum nitride-unpolished freestanding diamond structures. Applied Physics Letters, 2002, 81, 1720-1722.	1.5	100
2	Microfluidic device based on surface acoustic wave. Sensors and Actuators B: Chemical, 2006, 118, 380-385.	4.0	99
3	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
4	Surface acoustic wave devices based on AlN/sapphire structure for high temperature applications. Applied Physics Letters, 2010, 96, .	1.5	86
5	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
6	Sensing characteristics of high-frequency shear mode resonators in glycerol solutionsâ˜†. Sensors and Actuators B: Chemical, 2007, 121, 372-378.	4.0	65
7	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
8	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
9	Freestanding CVD diamond elaborated by pulsed-microwave-plasma for ZnO/diamond SAW devices. Diamond and Related Materials, 2004, 13, 581-584.	1.8	56
10	ZnO/quartz structure potentiality for surface acoustic wave pressure sensor. Sensors and Actuators A: Physical, 2006, 128, 78-83.	2.0	56
11	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
12	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
13	<i>In situ</i> high-temperature characterization of AlN-based surface acoustic wave devices. Journal of Applied Physics, 2013, 114, .	1.1	54
14	Surface acoustic wave devices based on nanocrystalline diamond and aluminium nitride. Diamond and Related Materials, 2004, 13, 347-353.	1.8	52
15	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
16	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
17	Reactive DC magnetron sputtering of aluminum nitride films for surface acoustic wave devices. Diamond and Related Materials, 2002, 11, 413-417.	1.8	48
18	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

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19	Unipolar and Bipolar High-Magnetic-Field Sensors Based on Surface Acoustic Wave Resonators. Physical Review Applied, 2017, 8, .	1.5	43
20	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
21	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
22	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
23	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
24	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
25	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
26	Modelling of SAW filter based on ZnO/diamond/Si layered structure including velocity dispersion. Applied Surface Science, 2000, 164, 200-204.	3.1	34
27	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
28	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
29	GHz frequency ZnO/Si SAW device. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 442-450.	1.7	30
30	Study of aluminium nitride/freestanding diamond surface acoustic waves filters. Diamond and Related Materials, 2003, 12, 723-727.	1.8	29
31	AlN/ZnO/diamond structure combining isolated and surface acoustic waves. Applied Physics Letters, 2009, 95, .	1.5	29
32	High-Temperature SAW Resonator Sensors: Electrode Design Specifics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 657-664.	1.7	29
33	Passive Resonant Sensors: Trends and Future Prospects. IEEE Sensors Journal, 2021, 21, 12618-12632.	2.4	29
34	Development and characterization of nanocomposite materials. Materials Science and Engineering C, 2007, 27, 1260-1264.	3.8	28
35	Packageless AlN/ZnO/Si Structure for SAW Devices Applications. IEEE Sensors Journal, 2013, 13, 487-491.	2.4	28
36	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

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37	Hypersonic characterization of sound propagation velocity in AlxGa1â^'xN thin films. Journal of Applied Physics, 2002, 92, 6868-6874.	1.1	27
38	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
39	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
40	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
41	Temperature compensated magnetic field sensor based on love waves. Smart Materials and Structures, 2020, 29, 045036.	1.8	24
42	SAW devices based on ZnO inclined c-axis on diamond. Diamond and Related Materials, 2008, 17, 1420-1423.	1.8	23
43	Stoichiometric Lithium Niobate Crystals: Towards Identifiable Wireless Surface Acoustic Wave Sensors Operable up to 600ÂÂ°C. , 2019, 3, 1-4.		23
44	Imaging of microwave-induced acoustic fields in LiNbO3by high-performance Brillouin microscopy. Journal Physics D: Applied Physics, 2005, 38, 2026-2030.	1.3	22
45	Innovative surface acoustic wave sensor for accurate measurement of subatmospheric pressure. Applied Physics Letters, 2008, 92, .	1.5	22
46	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
47	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
48	Electrical properties of piezoelectric aluminium nitride films deposited by reactive dc magnetron sputtering. Physica Status Solidi A, 2003, 196, 416-421.	1.7	21
49	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
50	Wireless SAW sensor for high temperature applications: material point of view. Proceedings of SPIE, 2011, , .	0.8	21
51	Enhanced Sensitivity of SAW-Based Pirani Vacuum Pressure Sensor. IEEE Sensors Journal, 2011, 11, 1458-1464.	2.4	21
52	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
53	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
54	MPACVD diamond films for surface acoustic wave filters. Diamond and Related Materials, 2001, 10, 681-685.	1.8	20

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55	Nanocrystalline diamond films for surface acoustic wave devices. Diamond and Related Materials, 2006, 15, 193-198.	1.8	20
56	High frequency SAW devices based on third harmonic generation. Ultrasonics, 2006, 45, 100-103.	2.1	20
57	FEM modeling of AlN/diamond surface acoustic waves device. Diamond and Related Materials, 2007, 16, 987-990.	1.8	20
58	Enhanced Performance Love Wave Magnetic Field Sensors With Temperature Compensation. IEEE Sensors Journal, 2020, 20, 11292-11301.	2.4	20
59	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
60	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
61	Extraction of COM parameters on Pt/LGS for high temperature SAW sensor. , 2008, , .		17
62	AlN/Sapphire: Promising Structure for High Temperature and High Frequency SAW Devices. IEEE Sensors Journal, 2013, 13, 4607-4612.	2.4	16
63	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
64	Protocol Wireless Medical Sensor Networks in IoT for the Efficiency of Healthcare. IEEE Internet of Things Journal, 2022, 9, 10693-10704.	5.5	16
65	Characterization method for ionizing radiation degradation in power MOSFETs. IEEE Transactions on Nuclear Science, 1995, 42, 1622-1627.	1.2	15
66	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
67	Stability of langasite regarding SAW applications above 800°C in air atmosphere. , 2012, , .		15
68	Wireless Multifunctional Surface Acoustic Wave Sensor for Magnetic Field and Temperature Monitoring. Advanced Materials Technologies, 2022, 7, 2100860.	3.0	15
69	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
70	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
71	c-axis inclined AlN film growth in planar system for shear wave devices. Diamond and Related Materials, 2008, 17, 1770-1774.	1.8	14
72	AlN/GaN/Sapphire heterostructure for high-temperature packageless acoustic wave devices. Sensors and Actuators A: Physical, 2018, 283, 9-16.	2.0	14

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73	Characterization of a SAW-Pirani vacuum sensor for two different operating modes. Sensors and Actuators A: Physical, 2012, 188, 41-47.	2.0	13
74	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
75	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
76	Structural characterisations of AlN/diamond structures used for surface acoustic wave device applications. Physica Status Solidi A, 2003, 199, 145-150.	1.7	12
77	Numerical Development of ZnO/Quartz Love Wave Structure for Gas Contamination Detection. IEEE Sensors Journal, 2007, 7, 336-341.	2.4	12
78	Platinum/AlN/Sapphire SAW resonator operating in GHz range for high temperature wireless SAW sensor. , 2013, , .		12
79	High temperature gradient nanogap-Pirani micro-sensor with maximum sensitivity around atmospheric pressure. Applied Physics Letters, 2017, 111, .	1.5	12
80	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
81	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
82	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
83	FEM Modeling of Multilayer Piezo-magnetic Structure Based Surface Acoustic Wave Devices for Magnetic Sensor. Procedia Engineering, 2014, 87, 408-411.	1.2	11
84	Experimental Study of Multilayer Piezo-magnetic SAW Delay Line for Magnetic Sensor. Procedia Engineering, 2015, 120, 870-873.	1.2	11
85	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
86	Non-leaky longitudinal acoustic modes in ScxAl1-xN/sapphire structure for high-temperature sensor applications. Applied Physics Letters, 2019, 115, .	1.5	11
87	Simulation of electrons irradiation damages to optimize the performance of IGBT. IEEE Transactions on Nuclear Science, 1997, 44, 14-19.	1.2	9
88	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
89	Wide vacuum pressure range monitoring by pirani SAW sensor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 684-689.	1.7	9
90	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

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91	Theoretical and experimental study of ScAlN/Sapphire structure based SAW sensor. , 2017, , .		9
92	Elastic and Piezoelectric Constants of Potassium Niobate Studied by Brillouin Spectroscopy. Ferroelectrics, 2007, 351, 96-104.	0.3	8
93	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
94	Theoretical and experimental study of layered SAW magnetic sensor. , 2014, , .		8
95	Direct integration of SAW resonators on industrial metal for structural health monitoring applications. Smart Materials and Structures, 2021, 30, 125009.	1.8	8
96	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
97	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
98	Reliability of AlN/sapphire bilayer structure for high-temperature SAW applications. , 2010, , .		7
99	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
100	6I-2 Droplet Heating System Based on SAW/Liquid Interaction. , 2006, , .		6
101	Study of tantalum and iridium as adhesion layers for Pt/LGS high temperature SAW devices. , 2009, , .		6
102	PANI/ZnO/Quartz structure for Love wave gas sensor. EPJ Applied Physics, 2009, 47, 12702.	0.3	6
103	P3O-1 5GHz SAW Devices Based on AlN/Diamond Layered Structure. , 2006, , .		5
104	New measurement method to characterize piezoelectric saw substrates at very high temperature. , 2008, , .		5
105	Iridium interdigital transducers for ultra-high-temperature SAW devices. , 2011, , .		5
106	High temperature Pt/LGS SAW sensor: From theory to experiment. , 2011, , .		5
107	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
108	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

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109	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
110	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
111	C-axis inclined ZnO films deposited by reactive sputtering using an additional blind for shear BAW devices. , 0, , .		4
112	Piezoelectric Aluminum Nitride Films Deposited by Triode Sputtering for Surface Acoustic Wave Devices. Ferroelectrics, 2002, 273, 249-254.	0.3	4
113	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
114	SAW pressure sensor for vacuum control applications. , 2009, , .		4
115	Is AlN/Sapphire bilayer structure an alternative to langasite for ultra-high-temperature SAW applications?. , 2011, , .		4
116	Packageless temperature sensor based on AlN/IDT/ZnO/Silicon layered structure. , 2013, , .		4
117	Packageless acoustic wave sensors for wireless body-centric applications. , 2016, , .		4
118	First investigations on stoichiometric lithium niobate as piezoelectric substrate for high-temperature surface acoustic waves applications. , 2017, , .		4
119	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
120	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
121	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
122	AlN/ZnO/Si structure - a packageless solution for acoustic wave sensors. , 2011, , .		3
123	AlN/IDT/AlN/Sapphire as packageless structure for SAW applications in harsh environments. , 2012, , .		3
124	A miniaturized SAW-PIRANI sensor. , 2012, , .		3
125	Control of the magnetic response in magnetic field SAW sensors. , 2017, , .		3
126	GHz frequency ZnO/Si SAW device. , 0, , .		2

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127	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
128	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
129	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
130	Titanium Nitride Grown by Sputtering for Contacts on Boron-Doped Diamond. Plasma Processes and Polymers, 2007, 4, S139-S143.	1.6	2
131	Deposition of crack-free 30 µm AlN on IDT/ZnO/Si for wave guiding layer acoustic wave applications. , 2011, , .		2
132	Surface Acoustic Wave sensor based on AlN/Sapphire structure for high temperature and high frequency applications. , 2011, , .		2
133	Temperature uniformity of microdroplet heated by Rayleigh Surface Acoustic Wave in view of biological reaction. , 2013, , .		2
134	Temperature uniformity of microdroplet heated by buried surface acoustic wave device. , 2014, , .		2
135	Correlation between structural properties of AlN/Sapphire and performances of SAW devices in wide temperature range. , 2014, , .		2
136	AlN/ZnO/LiNbO₃ packageless structure as a low-profile sensor for on-body applications. , 2017, , .		2
137	Notice of Removal: SAW resonators for magnetic field sensing with (TbCo₂/FeCo) multilayered IDTs as sensitive layer. , 2017, , .		2
138	Acoustic isolation of discâ€shaped modes using periodic corrugated plateâ€based phononic crystal. Electronics Letters, 2018, 54, 301-303.	0.5	2
139	SAW RFID Devices Using Connected IDTs as an Alternative to Conventional Reflectors. , 2019, , .		2
140	Reversible response of a magnetic surface acoustic wave device with perpendicular magnetization. Journal Physics D: Applied Physics, 2020, 53, 305002.	1.3	2
141	Modeling and Electrical Characterization of a Bilayer Pt/AlN/Sapphire One Port Resonator for Sensor Applications. Electronics (Switzerland), 2021, 10, 370.	1.8	2
142	AlN/Pt/LN-Y128 Packageless Acoustic Wave Temperature Sensor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2315-2318.	1.7	2
143	Development of a Love-Wave Biosensor Based on an Analytical Model. Chemosensors, 2022, 10, 81.	1.8	2
144	Surface Acoustic Wave Pressure Sensor. Ferroelectrics, 2002, 273, 53-58.	0.3	1

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145	Microwave induced phonons imaging by Brillouin microscopy. , 0, , .		1
146	P4K-4 Novel Layered SAW Structure for Droplet Multidirectional Actuating and Sensing. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	1
147	LOW TEMPERATURE GROWTH OF SPUTTERED ALN FILMS FOR LAYERED STRUCTURE SAW DEVICES. Integrated Ferroelectrics, 2007, 91, 119-128.	0.3	1
148	Isolated acoustic wave based on AlN/ZnO/diamond structure for sensor applications. , 2009, , .		1
149	Fabrication of GHz range oscillators stabilized by nano-carbon-diamond-based surface acoustic wave resonators. , 2009, , .		1
150	Brillouin spectroscopy applied to the characterization of SAW propagation losses in langasite. , 2010, , .		1
151	Microfluidic heater assisted by Rayleigh Surface Acoustic Wave on AlN/128°Y-X LiNbO<inf>3</inf> multilayer structure. , 2012, , .		1
152	Fabrication of a 3GHz oscillator based on Nano-Carbon-Diamond-film-based guided wave resonators. Microelectronic Engineering, 2013, 112, 133-138.	1.1	1
153	Infra-Red Thermography for spatially resolved measurements of the temperature distribution on the Acoustic Wave devices. , 2013, , .		1
154	Wavelet versus Fourier for wireless SAW sensors resonance frequency measurement. , 2013, , .		1
155	Potential of Al2O3/GaN/Sapphire layered structure for high temperature SAW sensors. , 2015, , .		1
156	Monitored vacuum deposition of dielectric coatings over surface acoustic wave devices. Vacuum, 2015, 116, 1-6.	1.6	1
157	AlN/ZnO/LiNbO3 packageless structure as a low-profile sensor for on-body applications. , 2017, , .		1
158	Nanogap Pirani Sensor Operating in Constant Temperature Mode for Near Atmospheric Pressure Measurements. Proceedings (mdpi), 2017, 1, 377.	0.2	1
159	Wireless stretchable SAW sensors based on Z-cut lithium niobate. , 2019, , .		1
160	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
161	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
162	Pushing the Limits of LiNbO3-based High Temperature SAW Sensors. , 2021, , .		1

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163	SAW-RFID temperature and strain sensors on metallic substrates. , 2021, , .		1
164	Surface Bio-functionalization of boron doped diamond. Materials Research Society Symposia Proceedings, 2006, 956, 1.	0.1	0
165	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
166	Theoretical, Numerical and Experimental Investigations of Gas Vapour Effects on a ZnO/Quartz SAW Gas Sensor. Ferroelectrics, 2007, 351, 225-235.	0.3	0
167	Fabrication of a 3 GHz oscillator based on nano-carbon-diamond-film-based guided wave resonators. , 2010, , .		0
168	LiTaO<inf>3</inf> single crystals treated by Vapour Transport Equilibration for temperature-compensated SAW devices. , 2012, , .		0
169	Dual Rayleigh and Love surface acoustic wave structures based on ZnO thin film for microfluidic applications. , 2014, , .		0
170	Towards an optimal architecture of high temperature LGS-based SAW sensors. , 2016, , .		0
171	Notice of Removal: AlN/GaN/spphire as promising structure for wireless, batteryless and packageless acoustic wave sensors for high temperature applications. , 2017, , .		0
172	Diamond/ZnO/LiNbO3 structure for packageless acoustic wave sensors. , 2017, , .		0
173	Notice of Removal: Zero TCF resonator based on S₀ Lamb wave mode in AlN thin plate films. , 2017, , .		0
174	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
175	From non-linear magnetoacoustics and spin reorientation transition to magnetoelectric micro/nano-systems. , 2017, , .		0
176	Interconnect-free DRA-SAW RFID Sensing System for High Temperature Monitoring. , 2021, , .		0
177	SAW Based Sensing System Coupled to a Thin Flexible Antenna for Biomedical Applications. , 2022, , .		0